Sociedade Brasileira de Bioquímica e Biologia Molecular – SBBq

Programa e Índices da XXXIV Reunião Anual

Hotel Monte Real
Águas de Lindóia, SP
02 a 05 de julho de 2005

Agradecimentos

Coordenação de Aperfeiçoamento de Pessoal de Nível Superior

Conselho Nacional de Desenvolvimento Científico e Tecnológico

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Ilustração da capa: Guilherme A. Marson

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Sumário

Mapa de Salas 9

Cronograma Geral 11

Programa Científico 13

Brasil Jovem e a Ciência 26

Sessão de Cartazes 27

Palestras Técnicas 28

Título dos Resumos 32

Índice de Autores 91

0-inicio.pmd 7 6/6/2005, 12:38

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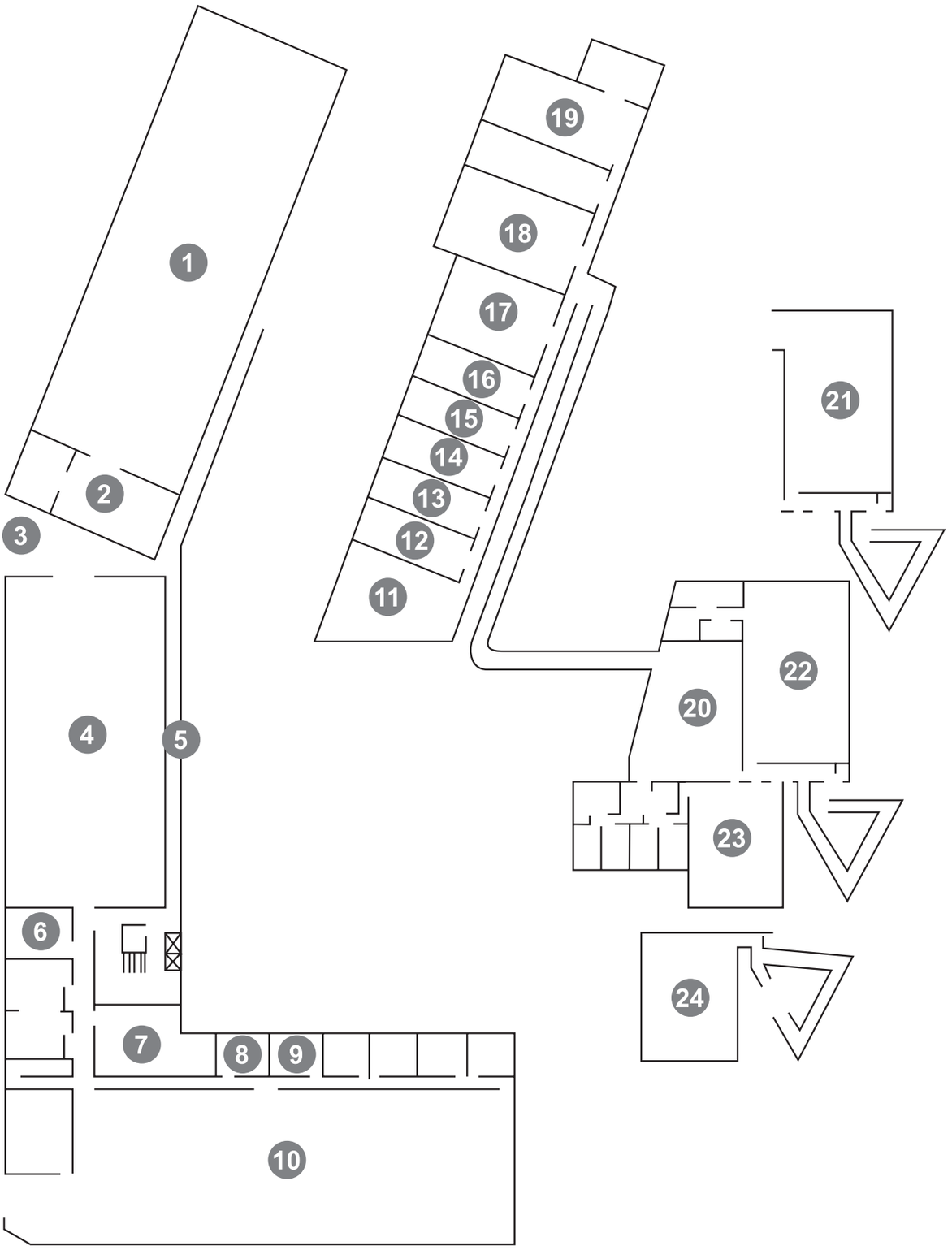

LEGENDA:

1 - Salão Imperial - ExpoSBBq (Exposição de Empresas e Livreiros)
2 - Secretaria do Congresso (Não Sócio)
3 - Secretaria do Congresso (Sócio)
4 - Salão Marquês (Sessão de Poster)
5 - Corredor do Salão Marques (Sessão de Poster)
6 - Sala Vip (Invited Speakers)
7 - Cyber Café
8 - Enfermaria
9 - Midia Desk
10 - Salão Real
11 - Sala 1 - Palestras Técnicas
12 - Sala 2 - Palestras Técnicas
13 - Sala 3 - Palestras Técnicas
14 - Sala 4 - Palestras Técnicas
15 - Sala 5 - Palestras Técnicas
16 - Sala 6 - Palestras Técnicas
17 - Sala 7 - Brasil Jovem e a Ciência
18 - Salão Onix - Comunicações Livres
19 - Sala 10 - Secretaria da SBBq
20 - Salão Esmeralda (passagem para a Sessão de Poster e Estandes - Salas de 1 a 19)
21 - Salão Ágata
22 - Salão Rubi
23 - Salão Safira
24 - Salão Topázio

Cronograma Geral

Sábado, 02 de julho

17:30 às 18:00	Sessão de Abertura
18:00 às 19:00	Conferência
20:30 às 23:30	Sessão de Poster
09:00 às 20:00	Exposição de Empresas

Domingo, 03 de julho

08:00 às 09:30	Palestra: “Brasil Jovem e a Ciência”
08:00 às 18:00	Palestras Técnicas
08:00 às 10:00	Comunicações Livres 1 e 2
09:00 às 10:00	Conferências
10:00 às 10:20	Coffee-Break
10:30 às 12:30	Simpósio
12:30 às 14:00	Intervalo para Almoço
14:00 às 16:00	Comunicações Livres 3 e 4
14:30 às 15:30	Conferências
15:30 às 15:50	Coffee-Break
16:00 às 18:00	Simpósios
17:00 às 18:30	Palestra: “Brasil Jovem e a Ciência”
20:30 às 23:30	Sessão de Pôster
09:00 às 20:00	Exposição de Empresas e Livrarias

Segunda, 04 julho

08:00 às 10:00	Palestra: “Brasil Jovem e a Ciência”
08:00 às 18:00	Palestras Técnicas
08:00 às 10:00	Comunicações Livres 5 e 6
09:00 às 10:00	Conferências
10:00 às 10:20	Coffee-Break
10:30 às 12:30	Simpósios
12:30 às 14:00	Intervalo para Almoço
14:00 às 16:00	Comunicações Livres 7 e 8
14:30 às 15:30	Conferências
15:30 às 15:50	Coffee-Break
16:00 às 18:00	Simpósios
17:00 às 18:30	Palestra: “Brasil Jovem e a Ciência”
18:30 às 19:30	Reunião Proteoma
20:30 às 23:30	Sessão de Pôster
21:00	Reunião do Conselho da SBBq
09:00 às 20:00	Exposição de Empresas e Livrarias

0-inicio.pmd 11 6/6/2005, 12:38

Terça, 05 de julho

08:00 às 10:00	Palestra: “Brasil Jovem e a Ciência”
08:00 às 18:00	Palestras Técnicas
08:00 às 10:00	Comunicações Livres 9 e 10
09:00 às 10:00	Conferências
10:00 às 10:20	Coffee-Break
10:30 às 12:30	Simpósios
12:30 às 14:00	Intervalo para Almoço
14:00 às 16:00	Comunicações Livres 11 e 12
14:30 às 15:30	Conferências
15:30 às 15:50	Coffee-Break
16:00 às 18:00	Simpósios
17:00 às 18:30	Palestra: “Brasil Jovem e a Ciência”
17:00 às 18:00	Assembléia Geral
19:00 às 23:00	Pedido de Auxílio
20:30 às 23:30	Sessão de Poster
09:00 às 20:00	Exposição de Empresas e Livrarias
09:00 às 12:00	Apresentação de DVD
14:00 às 18:00	Apresentação de DVD

0-inicio.pmd 12 6/6/2005, 12:38

Scientific Program - Tentative

5:30 p.m. – Real Room

Openning Cerimony

Convention Center

Anibal E. Vercesi
President of SBBq

6:00 p.m. – Real Room

Conference 1

Erwin Neher
Max Planck Institut Für Biophysikalische Chemie
Nobel Prize of Medicine 1991

Control of Neurotransmitter and Hormone Release by Ca^{++} and cAMP

Introducer:
Paulo S.L. Beirão
UFMG

1-programa-2005.pmd 13 6/6/2005, 12:38

9:00 to 10:00 a.m.

Real Room - Conference 2 (English)

Lawrence J. Marnett
Vanderbilt Institute of Chemical Biology, USA

Inhibition of Cyclooxygenases-1 and –2. What Do We Know and Where Do We Go From Here?

Introducer: **Ohara Augusto**
USP-Instituto de Química, Dep. Bioquímica

Ágata Room - Conference 4 (English)

Linda J. Van Eldik
Northeastern University, Feinberg School of Medicine

New Therapeutic Strategies for the Treatment of Alzheimer's Disease

Introducer: **Carlos A.S. Gonçalves**
UFRGS-Instituto de Ciências Básicas da Saúde

Rubi Room - Conference 3

Ana Claudia Rasera da Silva
Alellyx Applied Genomics

Oportunidades e Desafios na Inovação e Transferência de Tecnologia em Bioquímica e Biologia Molecular: A identificação de um novo vírus associado a doença Morte Súbita dos citros.

Introducer: **Glaucius Oliva**
Vice-Presidente da SBBq

Safira Room - Conference 5 (English)

Widmar Tanner
University of Regensburg, Germany

Protein Glycosylation Conserved from Yeast to Man. How a Model Organism Helped to Analyze Severe Human Diseases.

Introducer: **Lev A. Okorokov**
UENF-Centro de Biociências e Biotecnologia, LFBM

10:30 to 12:30 a.m.

Symposia 1 (Spanish) – Real Room

Coord. Virginia B.C. Junqueira
UNIFESP-EPM, Dep. Medicina

Cone Sul- Oxidative Stress in Subcellular, Cellular, and Systemic Systems

Alberto A. Boveris
Universidad de Buenos Aires, Facultad Farmacia y Bioquímica - Argentina.
Free-Radical Initiation and Termination Reactions in Biochemistry

Homero Rubbo
Universidad de La Republica, Facultad de Medicina, Fauldade de Medicina, Dep. Bioquímica - Uruguay.
Design and Biological Characterization of Novel Antiatherogenic Tocopherol analogs - Nitric Oxide Donors

Roger Frigerio Castilho
UNICAMP-Faculdade de Ciências Médicas, Patologia Clínica
Protective Effect of Melatonin on Rotenone Plus Ca2+-Induced Mitochondrial Oxidative Stress and PC12 Cell Death

Luis A. Videla
Facultad de Medicina, Universidad de Chile, Santiago, Chile
Thyroid Hormone (T3)-Induced Liver Oxidative Stress and Redox Regulation of Gene Expression.

Symposia 2 – Rubi Room

Coord. Maria Luiza Vilela Oliva
Unifesp/EPM

Molecular Diversity and Biological Implications of Peptidases: Pathways of Activation and Regulation.

In honor of Dr Claudio A. M. Sampaio

Maria Graça Naffah-Mazzacoratti
Unifesp - Dep de Bioquímica/Neurologia
Neurochemical Alterations Related to Temporal Lobe Epilepsy

Ana M Chudzinski-Tavassi
Instituto Butantan – Lab de Bioquímica e Biofísica
Evaluating New Molecules And Activities from Lonomia obliqua Caterpillar

Maria do .Socorro Cavalcanti
Fundação Universidade de Pernambuco
The Role of MBL in the Infectious Disease and Atherosclerosis

Maria Luiza Vilela Oliva
Unifesp – Dep. De Bioquímica
Action of Plant Proteinase Inhibitors on Inflammatory and Tumor Models

1-programa-2005.pmd 14 6/6/2005, 12:38

Symposia 3 – Ágata Room

Coord. Helena Coutinho Franco de Oliveira
UNICAMP-Instituto de Biologia, Dep. Fisiologia e Biofísica

Biochemistry of Disease

Francisco Rafael Martins Laurindo
USP-INCOR-Instituto do Coração do Hospital das Clínicas
Pathophysiology of the Redox Processes in Vascular Diseases

Eder Carlos Da Rocha Quintao
USP-Faculdade de Medicina, Dep. Clínica Médica
Cellular and Molecular Mechanisms of th Lipopreotein Induced Atherogenesis

Lício A. Velloso
UNICAMP-Faculdade de Ciências Médicas
Role of Lipids on the Hypothalamic Control of Hunger and Thermogenesis

Kleber Gomes Franchini
UNICAMP-Universidade Estadual de Campinas
Fac. Ciências Médicas
Molecular Signaling Triggered by Mechanic Stimulation in Cardiac Miocytes: Adaptation to Metabolic

Symposia 4 – Safira Room

Coord. Flávio Henrique Silva
UFSCAR-Universidade Federal de São Carlos, Dep. Genética e Evolução

In-vitro Evolution

Alejandro J. Vila
Universidad Nacional de Rosário, Biophysics Section
Directed Evolution in Metallo-b-Lactamases: Natural vs. in vitro Fine Tuning of Enzyme Activity (Spanish)

Flávio Henrique Silva
UFSCAR
In vitro Evolution of Sugarcane Cystatins

Lorenzo Segovia
Universidad Nacional Autonoma de Mexico, Institute de Biotechnologia
Evolution of Structure and Function in the b-Lactamase/ DD-Peptidase Fold (Spanish)

Maria Fátima Grossi De Sa
EMBRAPA-Cenargen - zArea de Biologia Molecular
Screening of Functional Insecticidal Molecules using Shuffled Libraries

9:00 to 11:00 a.m

Comunicações Livres 1
Topázio Room - Área E

Coord.: **Maria Helena Goldman**
USP-Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto

Coordinated Regulation of Soybean Genes by Endoplasmic Reticulum Stress and Water Deficit
André Southernman Teixeira Irsigler
UFV-Universidade Federal de Viçosa

Bahunia pentandra *Endospermic Gum: Isolation, Characterization and Interaction with the Endogenous Lectin.*
Clébia Vieira Crisóstomo
UFC-Universidade Federal do Ceará

Isolation and Molecular Characterization of Antimicrobial Peptides from Two Cultivars of Sesamum indicum *Kernels*
Fábio Teles Costa
UCB – Universidade Católica de Brasília

AtPAB1, A Novel Pre-RC Interacting Protein that Drives Cells to Differentiation in Arabidopsis thaliana
Hana Paula Masuda
UFRJ-Instituto de Ciências Biomédicas

Supression Subtractive Hybridization (SSH) to Identify Genes Preferentially Expressed in Stigma/Style of Nicotiana tabacum
Henrique Cestari De Paoli
USP-Faculdade de Medicina de Ribeirão Preto

A Novel Protein Network Controlling G1/S Phase Transition in Arabidopsis thaliana
Luiz Mors Cabral
UFRJ-Instituto de Bioquímica Médica

Characterization of Genes Predominantly Expressed in the Stigma/Style of Nicotiana tabacum *by Real Time RT-PCR*
Michael dos Santos Brito
USP-Faculdade de Filosofia Ciências e Letras de Ribeirão Preto

*Isolation and Characterization of Antifungal Peptides from*Amburana cearensis *and* Parkia platycephala *Seeds.*
Priscila Helena Acioly dos Santos
UENF-Universidade Estadual do Norte Fluminense

Comunicações Livres 2
Onix Room - Área S

Coord.: **Eliane Noronha**
Universidade Católica de Brasília

Biochemical Characterization of the Venom of the Wasp Angiopolybia pallens
Fernanda Pessoa de Sales
UNESP-Instituto de Biociências de Rio Claro

The Portal Hypertensive Response to Bradykinin in Chronic Inflammation and Cirrhosis
Fernando Guariglia D´Agostino
UNIFESP-Escola Paulista de Medicina

Comparative Study of Biological Activities from Three Brazilian Snakes Venoms: Bothrops moojeni, Bothrops neuwiedi pauloensis *and* Crotalus durissus sp.
Johara Boldrini França
UFU-Universidade Federal de Uberlândia

Isolation and Characterization of Two Bioactive Peptides of Skin Secretion from Physalaemus centralis *(AMPHIBIA)*
Jorge Alex Taquita Melo
UnB-Universidade de Brasília

Screening of Insecticidal Molecules Using a Shuffled Library
Patrícia Sanglard Felipe Brunetta
UCB – Universidade Católica de Brasília

Partial Characterization of a Lectin Isolated from the Venom of Bothrops jararacussu *(SERPENTES: VIPERIDAE) and its Adhesion to Extracellular Matrix Glycoproteins*
Priscila Hess Lopes
PUC-Pontifícia Universidade Católica do Paraná

Antimicrobial factors from the harvestman Acutisoma longipes
Raphael Santa Rosa Sayegh
Instituto Butantan

Induction of Multidrug Resistance Protein 1 (ABCC1) Expression by Ouabain: Correlation with Ouabain Resistance
Raphael do Carmo Valente
UFRJ-Instituto de Ciências Biomédicas

1-programa-2005.pmd 15 6/6/2005, 12:38

2:30 to 3:30 p.m.

Real Room - Conference 6

Débora Foguel
UFRJ-Instituto de Ciências Biomédicas, Dep. Bioquímica Médica

The Dark Side of Protein Folding: Studies with Amyloidogenic Proteins

Introducer: **Russolina Zingali**
UFRJ-Instituto de Ciências Biomédicas, Dep. Bioquímica Médica

Ágata Room - Conference 8 (English)

Gerhard H. Braus
Institut Für Genetik und Mikrobiologie, Georg August Universitat Gottingen, Germany

Factors Controlling Protein Turnover and Development in the Filamentous Fungus Aspergillus nidulans

Introducer: **Gustavo Henrique Goldman**
USP-Faculdade Ciências Farmacêuticas de Ribeirão Preto

Rubi Room - Conference 7

Helena B. Nader
Unifesp/EPM

A Brief History of Glycosaminoglycans: Past, Present and Future.

Introducer: **Célia Carlini**
UFRGS

Safira Room - Conference 9 (English)

Attila Tárnok
University of Leipizig, Germany

Cytomics and Cytomics Technologies in Cardiovascular disease

Introducer: **Alexander Henning Ulrich**
USP-Instituto de Química, Dep. Bioquímica

4:00 to 6:00 p.m.

Symposia 5 – Real Room

Coord. Gilberto Barbosa Domont
UFRJ-Instituto de Química, Dep. Bioquímica

III Simpósio em Proteômica

Kelvin Lee
Cornell University, Ithaca
School of Chemical and Biomolecular Engineering
A Framework for Integrating DNA Sequence, mRNA and Protein Expression Profiles. (English)

Rose Adele Monteiro
UFPR-Universidade Federal do Paraná, Dep. Bioquímica
Efeito da Amonia sobre a Expressão Diferencial de Proteinas em Herbaspirillum seropedicae.

Lewis Joel Greene
USP-Faculdade de Medicina, Dep. Biologia Celular e Molecular e Bioagentes Patogênicos
Proteomics Links Protein Chemistry to Biology

Ana Maria Abrantes Coelho
UFRJ-Instituto de Biologia, Dep. de Genética
A proteome Reference Map for Gluconacetobacter diazotrophicus PAL5

Symposia 6 – Rubi Room

Coord. Yara Maria Correa Da Silva Michelacci
UNIFESP-Escola Paulista de Medicina, Dep. Bioquímica

Legacy of Prof. Dietrich to the Glycobiology Network.
In honor of Prof. Dr. Carl Peter Von Dietrich

Paulo A.S. Mourão
UFRJ-Instituto de Bioquímica
Carbohydrate-Based Species Recognition in sea Urchin Fertilization

Hugo A. De Oliveira Rocha
UFRN-Dep. Bioquímica, Natal
Heterofucans from Brown Algae as Alternative Sources of Antithrombotic, Anti-inflamatory and Anti-adhesive Agents.

Silvio S. Veiga
UFPR-Dep. Biologia Celular, Curitiba, PR
Molecular and Cellular Learning on Extracellular Matrix and Toxins of Venonous Animals

Hélio K. Takahashi
Unifesp, Dep. Bioquímica
Learning to the Beat of a Different Drum: A Journey from Heparin to Glycosphingolipids

Ivarne L. S. Tersariol
Centro Interdisciplinar de Investigação Bioquímica- UMC
From the Glycosaminoglycans Interaction with Cystein Protease to the Foundation of Centro Interdisciplinar de Investigação Bioquímica, UMC

Maria Aparecida Da S. Pinhal
Dep. Bioquímica, Fac. Medicina do ABC, Santo André, SP.
Neoplasic Transformation and Modulation by Extracellular Matrix: the role of Proteoglycans, EGF Receptors and Heparanase

1-programa-2005.pmd 16 6/6/2005, 12:38

Symposia 7 – Ágata Room

Coord. Goran Neshich
EMBRAPA-Centro Nacional de Pesquisa de Informática Agropecuária

Structural Bioinformatics

Gerard Kleywegt
Swedish Structural Biology Network (SBNet), Dept of Cell and Molecular Biology
Just Because It's in Nature, Doesn't mean it's true… (English)

Ana Tereza Ribeiro de Vasconcelos
Laboratório Nacional de Computação Científica, Dep de Matemática Aplicada e Computacional
Genômica Comparativa: do Alinhamento de Seqüências ao Enovelamento Proteico

Fernando Luís Barroso da Silva
USP-FCFde Ribeirão Preto
O Mundo Eletrostático das Moléculas Biológicas, Interações Fundamentais e suas Aplicações em Biofísica Estrutural

Paula R.Kuser Falcão
EMBRAPA-Centro Nacional de Pesquisa de Informática Agropecuária
"In silico" Identification of Active Site Residues

2:30 to 4:30 p.m.

Comunicações Livres 3
Topázio Room - Áreras A/Q

Coord.: **Julio A. Mignaco**
UFRJ-Dep. De Bioquímica Médica

Characterization of Chelerythrine as Inhibitor of Ion-Transporting ATPases.
Catarina Coutinho Pereira Prima
UFRJ-Centro de Ciências da Saúde

The Flesh Gelling Disturbance In Papaya Fruits are Related to a Decrease in the Plasmalema and Tonoplast ATP-Dependent H^+ Gradient
Inga Gonçalves de Azevedo
UENF-Universidade Estadual do Norte Fluminense

Cloning and Expression of Arabidopsis thaliana *Uncoupling Protein 5 Gene and Characterization of the Recombinant Protein.*
Kívia Aparecida Pontes de Oliveira
UNICAMP-CBMEG-Centro de Biologia Molecular e Engenharia Genética

Could gamma-Radiation Affect Enzymes of Human RBC Plasma Membrane?
Otacilio da Cruz Moreira
UFRJ-Instituto de Ciências Biomédicas

Heterologous Expression of a Mitochondrial Alternative Oxidase from Paracoccidioides brasiliensis *Causes Cyanide Resistance in* S. cerevisiae
Vicente de Paulo Martins
USP-Faculdade Ciências Farmacêuticas de Ribeirão Preto

ESR Studies on the Role of Surface Charge in the Lamellar to H Phase Transition
Ernanni Damião Vieira
USP-Instituto de Física de São Carlos

Physical-Chemistry Approach as Tools to Enhance Vaccine Encapsulation within Liposomes without Increases on Costs
Vanessa de Almeida Silva
Instituto Butantan

Influence of Phosphatidic Acid and Melatonin on Phosphatidylcholine Liposomes Physico-Chemical Behavior colon Relevance for Lipid Peroxidation Dynamics
Vânia Rodrigues de Lima
UFSC-Centro de Ciências Biológicas

Comunicações Livres 4
Onix Room - Áreas B/U/H

Coord.: **André L. Vettore**
Lab. Cancer Genetics, Ludwig Institue for Cancer Research

Equilibrio *Mutant Mice: Phenotypic, Characterization and Localization of Mutated Gene to Chromossome 17.*
Carolina Batista Ariza
UNIFESP-Escola Paulista de Medicina

Molecular Characterization of Chemo Sensitive and Chemo Resistant Wilms Tumor Blastemal Type Using SAGE Libraries
Fabio de Simone Piccoli
Instituto Ludwig de Pesquisa sobre o Câncer

Analysis of Phosphorylated Myosin Va During the Phases of the Cell Division and During the Steps of the Tumor Progression.
Hellen Cristina Ferreira Ishikawa
USP-Faculdade de Medicina de Ribeirão Preto

Mapping of Intrinsic Bent DNA Sites in AMPD2 Gene Amplified Region
Valerio Américo Balani
UEM-Universidade Estadual de Maringá

Molecular Characterization of Intronic Transcripts Regulated by Androgen in Prostate Cancer Cell Line
Vinicius Ramos Henriques Maracajá Coutinho
UFPb-Universidade Federal da Paraíba

Study of Transcription Regulation of Intronic Non-Coding RNAs Mediated by Androgen in Prostate Cancer Cell Line
Helder Takashi Imoto Nakaya
USP-Instituto de Química

Efectos del Entorno Sobre la Barrera y Reorganización Electrónica en la Migración 1,2-NH3 del Sustrato del Sistema Etanolamina-Amonioliasa/B12
Matias Machado
Laboratorio de Química Teórica y Computacional, Instituto de Química Biológica, Facultad de Ciencias, Universidad de la República, Montevideo, URUGUAY

Biochemical characterization of cell wall degrading enzymes produced by Trichoderma harzianum *isolates from Brazil Cerrado soil*
Ana Paula Silva Lopes
UCB - Universidade Católica de Brasília

1-programa-2005.pmd 17 6/6/2005, 12:38

09:00 to 10:00 a.m.

Real Room - Conference 10 (English)

Najib M. El-Sayed
Department of Parasite Genomics, The Institute for Genomic Research (TIGR), USA

Comparative Genomics of the Three Model Trypanosomatids: Trypanosoma brucei, Trypanosoma cruzi and Leishmania

Introducer: **Bianca Zingales**
USP-Instituto de Química, Dep. Bioquimica

Ágata Room - Conference 12 (English)

George S. Bloom
University of Virginia - Health System, Dep. of Biology

Regulation of Endomembrane Trafficking by Myosin V Isoforms

Introducer: **Luiz Claudio Cameron**
Universidade do Rio de Janeiro, Dep. Ciências Morfológicas

Rubi Room - Conference 11

Paulo Mazzafera
UNICAMP-Instituto de Biologia, Departamento de Fisiologia Vegetal

Descafeinando o Café: do Natural ao Trangênico

Introducer: Marcio De Castro Silva Filho
USP-ESALQ, Dep. Genética

Safira Room - Conference 13

Fernando Albericio
Barcelona Biomedical Research Institut, Barcelona Science Park, University of Barcelona

Peptides and Therapeutics

Introducer: **Reinaldo Marchetto**
Unesp-Instituto de Química de Araraquara

10:30 to 12:30 a.m.

Symposia 8 (English) – Real Room

Coord. Bianca Zingales
USP-Instituto de Química, Dep. Bioquímica

Biochemistry and Molecular Biology of Parasitic Diseases

Mariano Levin
Instituto de Investigaciones en Ingeniería Genética y Biología Molecular , Argentina
Integrating Genomic, Functional, Proteomic, and Structural Data of Macromolecular Complexes of Trypanosomes

Angela Kaysel Cruz
USP-Faculdade de Medicina de Ribeirão Preto
Non-Coding RNAs from Leishmania major: Looking for Targets

Bianca Zingales
USP-Instituto de Química - Dep. Bioquímica
Differential Gene Expression in Trypanosoma Cruzi Strains from Chagasic Patients

Glaucius Oliva
USP-Instituto de Física de São Carlos
Dep. Física e Informática
Structural Biology in Parasitic Infectious Diseases

Symposia 9 – Rubi Room

Coord. Marcelo Menossi
UNICAMP-Universidade Estadual de Campinas, Dep. Genética

Genomics of Plants and Pathogens

Marcos Antonio Machado
Instituto Agronômico de Campinas, Centro de Citricultura Sylvio Moreira , Laboratório de Biotecnologia
Citrus Genomics in Brazil (CitEST): Experiences and Future Perspectives

Julio Cezar De Mattos Cascardo
UESC-Universidade Estadual de Santa Cruz, Dep. Biologia, Genética Molecular
Genomics of the Crinipellis perniciosa-Theobroma cacao Pathosystem (witches' broom).

Dario Grattaplaglia
EMBRAPA-Recursos Genéticos e Biotecnologia (Cenargen)
Building Resources for Molecular Breeding of Eucalyptus: The Genolyptus Project

Luiz Gonzaga Esteves Vieira
IAPAR-Instituto Agronômico do Paraná
Projeto Genoma Café: recursos para genômica funcional

1-programa-2005.pmd 18 6/6/2005, 12:38

Symposia 10 – Ágata Room

Coord. Robson Q.Monteiro
UFRJ-ICB, Dep. Bioquímica Médica

Aspectos Moleculares da Coagulação Sanguínea em Processos Patológicos

Roger Abramino Levy
UERJ-Dep. Anatomia Patológica
Differentiating Pathogenic from Non-Pathogenic aPL by a b 2-glycoprotein I Dependency Anti-Cardiolipin ELISA Assay

Robson Queiroz Monteiro
UFRJ-ICB
Molecular Mechanisms for Activation of Blood Coagulation in Cancer

Mariana S. Pereira
UFRJ-HUCFF
Sulfated Galactan as an Anticoagulant and Antithrombotic Agent

Ivo Maurício Francischetti
National Institutes of Health – NIH.
Critical Role of the Blood Coagulation in Malaria: Plasmodium falciparum-infected Red Blood Cells Induce Tissue Factor expression by Endothelial Cells and Support the Assembly of Coagulation Complexes

Symposia 11 – Safira Room

Coord. Rogerio Meneghini
LNLS-Laboratório Nacional de Luz Síncrotron

Scientific Results of the Program SMolBNet, Aimed at a Leap Ahead in Structural Molecular Biology in Brazil

Luis Eduardo Soares Netto
USP-Instituto de Biociências, Dep. Biologia
Structural and Functional Characterization of Antioxidant Proteins

Sergio Schenkman
UNIFESP-Escola Paulista de Medicina, Dep Microbiologia, Imunologia e Parasitologia
Protein Structure of Key Host-Parasite Interaction Elements

Shaker Chuck Farah
USP-Instituto de Química, Dep. Bioquímica
The X-ray Structure of YaeQ from Xanthomonas citri

João Alexandre Ribeiro Gonçalves Barbosa
LNLS-Laboratório Nacional de Luz Síncrotron, Centro de Biologia Molecular Estrutural
Achievements in Crystallographic Structure Determination by SMolBNet Groups

9:00 to 11:00 a.m.

Comunicações Livres 5
Topázio Room - Área L

Coord.: **Sebastião Tavares de Rezende**
Universidade Federal de Viçosa

Heavy Metal Toxicity Transfer from Mother to Newborn Expressed by the Inhibition of the Erytrocite delta-Aminolevulinate Dehidratase (E.c. 4.2.1.2.4)
Bruno Caberlon Cemim
UFRGS-Instituto de Ciências Básicas da Saúde

Inhibition of the Nucleotide Hydrolysis in Zebrafish Danio rerio *Brain Membranes by Malathion*
Denis Broock Rosemberg
PUC-Pontifícia Universidade Católica do Rio Grande do Sul

Enzyme Activity Assay in the Gingival Fluid of Patients Submitted to Periodontal Surgery
Diego Magno Assis
EFOA-Escola de Farmácia de Odontologia de Alfenas

Kosmotropic Salt Effect on Picornavirus 3C Peptidase
Iuri Estrada Gouvêa
UNIFESP-Escola Paulista de Medicina, Infar

Molecular Basis of Aglycone Specificity in a beta-glycosidase
Marcelo Henrique Peteres Padilha
USP-Instituto de Química

Losac (A Factor X Activator from Lonomia obliqua *bristles) is Able to Induce Antiapoptotic and Mitogenic Effects on HUVECs (Human Umbilical Vein Endothelial cells) and Stimulate Molecules Involved in these Processes.*
Miryam Paola Alvarez Flores
Instituto Butantan

Purification and Kinect-Biochemical Characterization of Extracellular a Galactosidase from Debaryomyces hanseni *UFV-1*
Pollyanna Amaral Viana
UFV-Universidade Federal de Viçosa

Hemoglobin and Casein Proteases of Tambacu Skin Mucus
Santiago Alonso Tobar Leitão
FIOCRUZ

Comunicações Livres 6
Onix Room - Áreas T/U

Coord.: **Iseli L. Nantes**
UMC – Universidade de Mogi das Cruzes

Colorimetric Determination of the Residual PVA Adsorbed on the Surface of PLGA Nanoparticles Encapsulated with In(III)-Mesotetraphenylporphyrin for Use in Photodynamic Therapy
André Romero da Silva
UNICAMP-Instituto de Química

Photochemical Effects of Phenothiazines on Cytochrome C
Carolina Gregorutti dos Santos
UMC-Universidade de Mogi das Cruzes

Antioxidant Adaptations of the Dinoflagellate Lingulodinium polyedrum *upon Ferrous Sulfide-Dependent Molybdate Availability in Seawater*
Chrislaine Oliveira Soares
UNICSUL-Universidade Cruzeiro do Sul

Myeloperoxidase Inhibition by Epichatechin from Banisteriopsis erônica *(Malpighiaceae) and its Scavenger Action Over HOCl*
José Carlos Rebuglio Vellosa
UNESP-Instituto de Química de Araraquara

Study of the Molecular Mechanism of Action of Benzo[1,2-c]1,2,5-oxadiazole N-oxide Derivatives as Potential Anti-trypanosomal Agents
Verônica Tórtora
Universidad de La República Uruguay, Facultad de Medicina

Calorie Restriction Decreases Chronic Mitochondrial Oxidative Stress and Enhances Life Span in Saccharomyces cerevisiae
Erich Birelli Tahara
USP-Instituto de Química

Tamarindus indica L. *Extract Prevents Early Atherosclerotic Lesions in a Hamster Model*
Flávia Martinello
USP-Faculdade Ciências Farmacêuticas de Ribeirão Preto

Combination of Endophytic Diazotrophic Bacteria Inoculation and Humic Acids Aplication Affect P-type H^+ -ATPase Activity, Protein Profile and Lateral Roots Emission of Sugarcane
Roberto Batista Marques Júnior
UENF-Universidade Estadual do Norte Fluminense

1-programa-2005.pmd 19 6/6/2005, 12:38

2:30 to 3:30 p.m.

Real Room - Conference 14

Victor Nussenzweig
New York University, Dep. Pathology Experimental

The Molecular Motor of Plasmodium Parasites

Introducer: **Célia R.S. Garcia**
USP-Instituto de Biociências, Dep. Fisiologia

Ágata Room - Conference 16 (English)

Marcienne Bloch Tardy
Université PARIS XII, Faculte de Medecine

News in the Field of Astroglial Functions in the Central Nervous System

Introducer: **Ramon S. El-Bachá**
UFBA-Instituto de Ciências da Saúde, Dep. Biofunção

Rubi Room - Conference 15 (English)

John Andersen
National Institute of Allergy and Infectious Diseases

Function and Evolution of Salivary Components in Rhodnius Prolixus

Introducer: Jorge Almeida Guimarães
UFRGS-Universidade Federal do Rio Grande do Sul, Centro de Biotecnologia

4:00 to 6:00 p.m.

Symposia 12 – Real Room

Coord. Mari C. Sogayar
USP-Instituto de Química, Dep. Bioquímica

Genoma do Câncer

Emmanuel Dias Neto
USP-Faculdade de Medicina
Laboratório de Neurociências - Instituto de Psiquiatria
Análise de ESTs em Tumores de Cabeça e Pescoço

Luiz Fernando Lima Reis
Instituto Ludwig de Pesquisa sobre o Câncer
Lab. de Inflamação
Análise do Perfil de Expressão Gênica em Tumores Humanos através de cDNA Microarray

Michael McClelland
Skimmel Cancer Center California
Global Analysis of DNA Methylation in Cancer (English)

Wilson Araújo da Silva Junior
USP-FMRP, Departamento de Genética, Laboratório de Genética Molecular e Bioinformática e Centro de Terapia Celular/CEPID/FAPESP
Análise de SAGE em Tumors Humanos

Symposia 13 – Safira Room

Coord. Leopoldo de Meis
UFRJ-Universidade Federal do Rio de Janeiro, Dep. Bioquímica Médica

Difusão de Ciência

Suzana Carvalho Herculano Houzel
UFRJ-ICB

Paulo Sérgio Lacerda Beirão
UFMG

João Batista Teixeira da Rocha
Universidade Federal de Santa Maria, RS
O Ensino de Ciências no Brasil: Podemos ir Além do Muro do Construtivismo?

Leopoldo de Meis
UFRJ-Universidade Federal do Rio de Janeiro, Dep. Bioquímica Médica
A Era das Trevas e o Iluminismo

1-programa-2005.pmd 20 6/6/2005, 12:38

Symposia 14 – Ágata Room

Coord. Vadim Viviani
UNESP-Instituto de Biociências de Rio Claro, Dep. Biologia

Bioluminescence: from Biodiversity to Biosensors

Yoshihiro Ohmiya
National Institute of Advanced Research, Osaka
Basic and Applied Aspects for Color Tuning of Bioluminescence Systems (English)

Vadim Viviani
UNESP-Instituto de Biociências de Rio Claro, Dep. Biologia
A New Firefly Luciferase with Bimodal Spectrum: Structural Determinants, Biological Function and Biosensing Applications of pH-Sinsitivity in Beetle Luciferases

Cassius Stevani
USP-Instituto de Química, Dep Química Fundamental
Fungi Bioluminescence: Mechanistic Study and Application in Environmental Toxicology

Symposia 15 – Rubi Room

Coord. Igor Polikarpov
USP-Instituto de Física de São Carlos, Dep. Física

Biologia Molecular Estrutural

Geoffrey L. Greene
University of Chicago, Biochemistry and Molecular Biology
Estrogen Receptor Structures Reveal the Basis of SERM Action and Ligand Discrimination (English)

Beatriz Gomes Guimarães
LNLS-Laboratório Nacional de Luz Síncrotron, CeBiMEG
Structural Studies of the Peroxiredoxin AhpE from Mycobacterium Tuberculosis

Igor Polikarpov
USP-Instituto de Física de São Carlos, Depto. Física
Isoform-specific Ligands of Thyroid Hormone Nuclear Receptor and Structural Basis of Their Interactions with the Receptor.

Maria Cristina Nonato
USP-Faculdade Ciências Farmacêuticas de Ribeirão Preto, Depto Física e Química
Structural Characterization of Dihydroorotate Dehydrogenase: A Promising Target against Tropical Diseases

2:30 às 4:30 p.m.

Comunicações Livres 7
Topázio Room - Áreas C/D

Coord.: **Maria Aparecida Fernandez**
UEM-Universidade Estadual de Maringá

Serum Free Fatty Acids (FFA) and Serum Protection Factor (SPF) in Mice Receiving Intravenous or Intratracheal Injections of Oleic Acid
Cassiano Felippe Gonçalves
UERJ-IBRAG-Instituto de Biologia Roberto Alcantara Gomes

The Possible Role of the Hsp65 of Mycobacterium Leprae in the Experimental Acute Uveitis [EAU] and Systemic Lupus Erythematosus [SLE] Autoimmune Diseases}
Eliana Blini Marengo
UNIFESP-Escola Paulista de Medicina

Increased Cardiac Glycogen Content and Alterations in Blood TGO and TGP in a Rat Model of Diabetes Induced by Alloxan
Guilherme Antonio Behr
UFRGS-Instituto de Ciências Básicas da Saúde

Proteomic Comparative Analysis between Resting and Activated Neutrophils
Liz Maria Batista Teles
UnB-Universidade de Brasília

Expression of Tissue Factor in Human Monocytes Infected by Dengue 2 Viruses – A Possible Role in Dengue Hemorrhagic Fever?
Patrícia Cristina Neves Feliciano de Souza
Fundação Oswaldo Cruz – EPSJV

Behavioral Studies on MECP2-Silenced Mice Behavioral Studies on MECP2-Silenced Mice by RNA Interference
Tiago Campos Pereira
UNICAMP-Faculdade de Ciências Médicas

Polimorphism Analysis of the Light Chain Fibroin Gene (L) of Bombyx mori L. *(Lepidoptera, Bombycidae)*
Joice Felipes
UEM-Universidade Estadual de Maringá

Immune System-Reproductive System Interaction in Rhodnius prolixus *Challenged with Fungi*
Marcelo Neves de Medeiros
UFRJ-IBCCF-Instituto de Biofísica Carlos Chagas Filho

Comunicações Livres 8
Onix Room - Áreas M/V

Coord.: **Maria Eugenia Rabello Duarte**
Universidade Federal do Paraná

Changes in Heparan Sulfate Structure During Cerebellar Development
Ana Paula Bergamo Araujo
UNIFESP-Escola Paulista de Medicina

Production of Oligosaccharides from Polysaccharides of Two Red Seaweeds: Eucheuma denticulatum *and* Gracilaria domingensis
Diogo Ricardo Bazan Ducatti
UFPR-Universidade Federal do Paraná

Sulfated Galactans in the Cell wall of Seagrass: A Possible Adaptation to the Marine Environment?
Rafael Soares de Aquino
UFRJ-Instituto de Ciências Biomédicas

Low Molecular Mass Carbohydrates Distribution in Brazilian Red Seaweeds HPLC Analysis and Quimiotaxonomic Significance.
Robson Assis França
UFPR-Ciências Biológicas

Heparin-Like Compounds and other Antithrombotic Drugs: Antithrombotic and Hemorrhagic Activities and Mechanism of Binding to Endothelial and Smooth Muscle Cells in Culture
Rodrigo Ippolito Bouças
UNIFESP-Escola Paulista de Medicina

Function Prediction of Phospholipases A2 through a Bioinformatics Approach
Fabiano Pazzini
UFRGS-Universidade Federal do Rio Grande do Sul

Structure-Activity Relationship (SAR) of New Antiviral Candidates
Natália Isabel Vasconcelos Loureiro
UFF-Universidade Federal Fluminense

A Large Scale Gene Expression Analysis of the Human Brain
Pedro Alexandre F. Galante
Instituto Ludwig de Pesquisa sobre o Câncer

6:30 p.m. - Reunião

Onix Room
Os caminhos futuros da Proteômica no Brasil
Coord: Gilberto Domont

1-programa-2005.pmd 21 6/6/2005, 12:38

9:00 to 10:00 a.m.

Real Room - Conference 17

Antonio R.L.C. Teixeira
UnB-Universidade de Brasília, Lab. Multidisciplinar de Pesquisa em Doença de Chagas

Chagas: Parasita é Vetor de Doença Genética

Introducer: **Aníbal E. Vercesi**
UNICAMP-Faculdade de Ciências Médicas

Ágata Room - Conference 19

Paolo Di Mascio
USP-Instituto de Química, Dep. de Bioquímica

Generation of ^{18}O-labeled Singlet Molecular Oxygen from Lipid Hydroperoxides: Measurement and DNA Damage

Introducer: **Virgínia B. C. Junqueira**
Dep. de Medicina, Unifesp-EPM

Rubi Room - Conference 18 (English)

Elisabeth Mintz
CEA-Commissariat à l'Energie Atomique, Grenoble, Dep. Biologie Cellulaire et Structurale, França

About the Metal Specificity of P1-Type ATPases

Introducer: **Adalberto R. Vieyra**
UFRJ-IBCCF-Instituto de Biofísica Carlos Chagas Filho

Safira Room - Conference 20 (English)

Dieter Soll
Yale University, Dep. Molecular, Biophysics and Biochemistry

Protein Synthesis: An Ancient Process with Unexpected Diversity Throughout the living World

Introducer: **Orlando B. Martins**
UFRJ-Instituto de Ciências Biomédicas, Dep. Bioquímica

10:30 to 12:30 a.m.

Symposia 16 – Real Room

Coord. Otávio H. Thiemann
USP-Instituto de Física de São Carlos, DFI

Target Validation: RNAi e Knockout

Rogerio Margis
UFRJ, Instituto de Química
RNase-L inhibitor (RLI) and RNA interference (RNAi)

Iscia Lopes Cendes
Unicamp, Depto de Genética Médica
Recent Developments In the Biomedical Applications of "In Vivo" RNA Interference

Monique Mantovani
USP-Instituto de Física de São Carlos
Use of RNAi in the Validation of Potential Kinetoplastidae Drug Targets

Zilá Luz Paulino Simões
USP-Faculdade de Filosofia, Ciências e Letra s de Ribeirão Preto, Departamento de Biologia
Vitellogenin has a Regulatory Function in Honey bee Workers, as Revealed by iRNA.

Symposia 17 – Rubi Room

Coord. Adalberto R. Vieyra
UFRJ-IBCCF-Instituto de Biofísica Carlos Chagas Filho

New Facts and Ideas in Transport Systems: Intracellular Delivery, Energy Coupling, Regulation and Medical Applications

Antonio Ferreira Pereira
UFRJ-Instituto de Microbiologia Prof. Paulo de Góes, Dep. Microbiologia Geral
Effect of Plant Extracts on Pdr5p from Yeast: A Novel Hope to Solve the Multidrug Resistance Phenotype?

Giovanna Rosa Degasperi
UNICAMP-Faculdade de Ciências Médicas, Patologia Clínica
Verapamil-Sensitive Increase in Intracellular Calcium Stimulates Oxidative Phosphorylation and Re

Adalberto Ramon Vieyra
UFRJ-IBCCF-Instituto de Biofísica Carlos Chagas Filho
Kinase-Mediated Regulation of the Plasma Membrane Capump

Elisabeth Mintz
CEA-Commissariat à l'Energie Atomique, Grenoble, Dep. Biologie Cellulaire et Structurale
The Cu-Chaperone Atx1 can be Replaced by Cd- or Hg-Binding Proteins in Delivering Copper to the Secretory Pathway in Yeast
(English)

1-programa-2005.pmd 22 6/6/2005, 12:38

Symposia 18 – Ágata Room

Coord. Glaucius Oliva
USP-Instituto de Física de São Carlos, Dep. Física e Informática

8º Prêmio Jovem Talento para Ciências da Vida

Arthur Henrique C. de Oliveira
FFCLRP-USP
Targets For Functional Studies Selected by Subcellular Proteome of Leishmania Major

Julio César Borges
IBILCE, UNESP/Rio Preto.
Low-resolution structural study of two human Hsp40 chaperones.

Maria Augusta Arruda
UERJ-Instituto de Biologia Roberto Alcântara Gomes
Heme, a Proinflammatory Molecule, Delays Human Neutrophils Apoptosis Preserving Mitochondria Stability Through the Differential Expressiona of Bcl-2 Family Proteins.

Rafael Borba Rosa
UFRGS-ICBS, Dep. de Bioquímica
Impairment of Energy Metabolism Is Involved in the Mechanisms of Neurodegeneration of Glutaryl-Coa Dehydrogenase Deficiency (Gdd).

Renê de Oliveira Beleboni
FMRP-USP, Dep. de Fisiologia
Neurochemical Characterization of a Novel Neuroprotective and Anticonvulsant Component from Parawixia Bistriata Spider Venom that Inhibits Synaptosomal Uptake of GABA and Glycine.

Symposia 19 – Safira Room

Coord. Renato de A. Moreira
UFC-Universidade Federal do Ceará, Dep. Bioquímica e Biologia Molecular

Protein-Carbohydrate Interactions

Gerardo Perez
Universidad Nacional del Colombia
Interaction of Labiatae Lectins with cells (Spanish)

Maria Tereza Dos Santos Correia
UFPE-Universidade Federal de Pernambuco, Dep. Bioquímica/Centro Cienc Biologicas
Profitable Lectin-Microorganism Interactions

Marcos Silveira Buckeridge
IBOT-Instituto de Botânica, Sec.de Fisiol. Bioq. Plantas
Cell wall Degradation is Controlled by Temperature Dependent Polysaccharide Conformation Synchronised with Temperature Dependent Enzyme Activation

Renato de Azevedo Moreira
UFC-Universidade Federal do Ceará, Dept. Bioquímica e Biologia Molecular - CC
Cell wall Polysaccharides: Endogenous Ligands for the Plant Cell Lectins

9:00 to 11:00 a.m.

Comunicações Livres 9
Topázio Room - Áreas R/H

Coord.: **Karin Argenti Simon Giavarotti**
UNIFESP – Escala Paulista de Medicina

Amphetamine Increases Glial Fibrillary Acidic Protein Expression in Rat Hippocampus.
Ana Cristina Andreazza
UFRGS-Instituto de Ciências Básicas da Saúde

Activation of Gabaa Receptors by Taurine Blocks the Neurotoxicity of beta-Amyloid in Hippocampal and Cortical Neurons
Jordano de Brito Moreira da Silva
UFRJ-Centro de Ciências da Saúde

Involvement of MAPK/ERK Pathway in the Synaptosomal Glutamate Release Induced by Sea Anemone Toxins
Rossana Colla Soletti
UFSC-Centro de Ciências Biológicas

DNA Gyrase Activity Inhibition by Peptides Analogues of CcdB Protein
Eliane Trovatti
UNESP-Instituto de Química de Araraquara

Two Novel Screening Assays Based on HIS3 Activation and Culture Growth in Liquid Medium
Erica Maria de Queiroz
UFMG-Instituto de Ciências Biológicas

Lipid Microspheres as Antigenic Proteins Carrier: Building the System
Luiz Eduardo dos Reis Santos
USP-Faculdade de Filosofia Ciências e Letras de Ribeirão Preto

Deletion of the Saccharomyces cerevisiae AGT1 gene renders cells incapable of maltotriose fermentation
Sérgio Luiz Alves Júnior
UFSC-Universidade Federal de Santa Catarina

Production of Hepatitis B Virus Antigen HBsAg in Roots and Leaves of Transgenic Carrot Daucus carota *L. Plants*
Ziellen Pereira Lima
UENF-Centro de Biociências e Biotecnologia

Comunicações Livres 10
Onix Room - Áreas F/K

Coord.: Roberto da Silva
UNESP-IBILCE

The Viral Onco-Protein HBx Interacts with the Human Transcription Regulatory Protein p120E4F
Edmilson Rui
LNLS-Laboratório Nacional de Luz Síncrotron

Study of the CGTase Sequence from Bacillus *sp Subgroup* alcalophilus *Strain E16*
Heloiza Ferreira Alves do Prado
UNESP-IBILCE-Instituto de Biociências, Letras e Ciências Exatas

Characterization of Protein-Protein Interactions Important for the Regulation of the Quorum-Sensing Process in Xanthomonas axonopodis Pv. Citri
Maxuel de Oliveira Andrade
USP-Instituto de Química

Secretome of Vibrio cholerae *Amazonia and El Tor: A Preliminary Analysis*
Michelle Domingues Vieira
UFRJ-Instituto de Biologia, Genética e Molecular Vegetal

The Influence of the Tutorial Activity in the Academic, Didactic and Social Development of the Tutors of Biochemistry at UFV
André Mundstock Xavier de Carvalho
UFV-Universidade Federal de Viçosa

Teaching and Learning on Enzymes: The Need for New didactic tools
Maurílio Luciano Sabino Luiele
UFRJ-Centro de Ciências da Saúde

Lactate Production Retards, not Causes, Acidosis: A Theoretical Approach for Physical Education Students.
Rodrigo Hohl
UNICAMP-Instituto de Biologia

Constructivism Applied to the Discipline Advanced Education on Biochemistry
Wania Belo Maia
UFPE-Universidade Federal de Pernambuco

1-programa-2005.pmd 23 6/6/2005, 12:38

2:30 to 3:30 p.m.

Real Room - Conference 21 (English)

Jean Cadet
CEA, Grenoble, France

Direct and Sensitized Damage Induced by Solar Radiation to Cellular DNA: Formation and Repair

Introducer: **Paolo Di Mascio**
IQUSP, Dep. Bioquímica

Rubi Room - Conference 22 (English)

Steven P. Schwendeman
University of Michigan, Dep. of Pharmacheutical Sciences, College of Pharmacy

Stability of Proteins Encapsulated in Poly(lactic-co-glycolic acid) Delivery Systems

Introducer: Maria Helena Bueno Da Costa
Instituto Butantan

2:30 to 4:30 p.m.

Symposia 20 – Real Room

Coord. Salvatore Giovanni De Simone
Fundação Oswaldo Cruz

Molecular Modeling Application and Target of Drug Development

José Daniel Figueroa-Villar
Instituto Militar de Engenharia (IME), Dep. Química, RJ.
Modelling of Antifolates, Inhibitors of DHFR, TS and SHMT from Palsmodium Falciparum and Nucleoside Hidrolase from Leishmania Donovani

Osmar Norberto de Souza
PUCRS- Laboratório de Bioinformática, Modelagem e Simulação de Biossistemas
Molecular Dynamics of Proteins to Drug Design.

Walter Filgueira de Azevedo Jr
UNESP-IBILCE-Instituto de Biociências, Letras e Ciências Exatas, Dep. Física
Structural models of Shikimate Pathway Enzymes.

Floriano Paes Silva Junior
Instituto Oswaldo Cruz
Molecular Modeling Applications in Protein Biochemistry: From Functional Assignment to Ligand Recognition

Symposia 21 – Rubi Room

Coord. Alicia J. Kowaltowski
USP-Instituto de Química, Dep. Bioquimica

Apoptosis

Sharad Kumar
Hanson Institute, Dep. of Haematology, IMVS
Cell Death Regulation: Lessons from Drosophila (English)

Gustavo Pessini Amarante Mendes
USP-Instituto de Ciências Biomédicas I, Dep. Imunologia
Cross-Talk between Innate And Adaptive Immunity: Tlr4/ Myd88-Dependent, Lps-Induced Synthesis of Pge2 by Macrophages or Dendritic Cells Prevents Anti-Cd3-Mediated Apoptosis of T Cells

Rafael Linden
UFRJ-IBCCF-Instituto de Biofísica Carlos Chagas Filho, Lab. de Neurogênese
Targeting Early Events of Programmed Cell Death Following Axon Damage in Retinal Ganglion Cells

Hugo P. Monteiro
Unifesp-EPM
The Role of p21Ras and the Mitogen-Activated Protein Kinases in Nitric Oxide-Induced Human Monocytes Apoptosis

1-programa-2005.pmd 24 6/6/2005, 12:38

Symposia 22 – Ágata Room

Coord. Glaucia M. Souza
USP-Instituto de Química, Dep. Bioquimica

Sucest-Fun: The Sugarcane Transcriptome

Glaucia Mendes Souza
USP-Instituto de Química, Dep. Bioquimica
Tissue Profiling of Sugarcane Signal Transduction Genes

Marcelo Menossi
UNICAMP-Universidade Estadual de Campinas, Dep. Genética
Gene Expression Associated to Sucrose Metabolism in Sugarcane

Marcio De Castro Silva Filho
USP-ESALQ-Escola Superior de Agricultura "Luiz de Queiroz", Dep. Genética
Transcriptome Analysis of Sugarcane Plants in Response to Herbivore Insects by DNA Macroarrays

Adriana Silva Hemerly
UFRJ-Instituto de Ciências Biomédicas, Dep. Bioquímica Medica
Genomic Analysis of Sugarcane Association with Endophytic Diazotrophic Bacteria

Symposia 23 – Safira Room

Coord. Marcus V. Gomez
UFMG-Instituto de Ciências Biológicas, Dep. Farmacologia

Cell Signalling

Terrance P. Snutch
University of British Columbia
Michael Smith Laboratories, Vancouver, Canadá
Voltage-Gated Calcium Channels: From Molecular Cloning to Novel Therapeutics for Human Disease (English)

Maria de Fátima Leite
UFMG-Instituto de Ciências Biológicas, Dep. Fisiologia
Independent Regulation of Nuclear Versus Cytosolic Calcium

Mariana S. Silveira
UFRJ - Instituto de Biofísica Carlos Chagas Filho
Neuropeptides and Retinal Development: Multiple Roles for PACAP.

Marco A. Romano-Silva
UFMG-Instituto de Ciências Biológicas
Dep. Farmacologia
Mechanisms Involved in the Facilitation of Phosphoinositide Dynamics in PC12 Cells Overexpressing Neuronal Calcium Sensor-1

2:30 to 4:30 p.m.

Comunicações Livres 11
Topázio Room - Áreas J/G

Coord.: **Maria Isabel Nogueira Cano**
UNICAMP-Faculdade de Ciências Médicas

Preparation of Human Monocytes from Peripheral Blood
Alana Maria Cerqueira de Catalán
USP-Faculdade de Medicina de Ribeirão Preto

Phenotypic Modulation Induced by 8-bromoguanosine and Guanosine in B16F10 Melanoma Cells
Aline Carbonera Luvizon
UFPR-Universidade Federal do Paraná

%Cephalic and Truncal Murine Neural Crest Stem Cells Differentiation is Influenced by the Extracellular Matrix, *In Vitro*
Bruno Costa da Silva
UFSC-Centro de Ciências Biológicas

In vivo *Effects of the Flavonoids Quercetin and Morin on Low Molecular Weight Phosphotyrosine Protein Phosphatase Activities*
Camila de Andrade Camargo
UNICAMP-Universidade Estadual de Campinas

Angiotensin-I Converting Enzyme Activity in Murine Long-Term Bone Marrow Cultures
Carlos Rocha Oliveira
USP-Instituto de Ciências Biomédicas IV

Trehalose Metabolism in the Yeast Saccharomyces Cerevisiae *Submitted to High Hydrostatic Pressure*
Carlos Alberto da Silva Junior
UFES-Universidade Federal do Espírito Santo

Sequencing and Disruption of the RNA polymerase B Transcription Factor 3 (BTF3) of Trichoderma reesei
Erik Cendel Saenz Tejada
USP-Instituto de Química

The Putative Telomerase Reverse Transcriptase Component of Leishmania spp.*: Gene Cloning and Characterization*
Miriam Aparecida Giardini
UNICAMP-Faculdade de Ciências Médicas

Comunicações Livres 12
Onix Room - Áreas N/O

Coord.: **Marcelo Valle de Sousa**
UnB-Departamento de Biologia Celular

Atomic Force Microscopy -Mass Spectrometry (AFM-MS): A Novel Approach to Investigate Proteins.
Aline Costa de Andrade
UnB-Universidade de Brasília

An Analysis of the Head-to-Tail Interaction of Tropomyosin by Thermodynamic Cycles
Fernando Corrêa
USP-Instituto de Biociências

Crystal Structure of HIV Proteases of Brazilian Subtypes
Nádia Helena Martins
USP-Instituto de Física de São Carlos

Study of the Differential Expression of Cell Wall Proteins on the Yeast-Like Phase and Conidia of Sporothrix schenckii *by a Proteomic Approach*
Paula Helena Kubitschek Barreira
UERJ-Universidade Estadual do Rio de Janeiro

Proteome Analysis in Hearts from Patients with Chronic Chagas Disease and Idiopathic Dilated Cardiomyopathy: Differential Protein Expression Profiles
Priscila Camillo Teixeira
USP-INCOR-Instituto do Coração do Hospital das Clínicas

Purification, Crystallization and Structural Studies of the Jararhagin a Metalloproteinase e Dsintegrin from the Sake-Venom of B. jararaca
João Renato Carvalho Muniz
USP-Instituto de Física de São Carlos

The Array of Cytochrome C *Lysine Residues Influences the Association of the Protein with Mitochondrial Mimetic Membranes.*
Vitor Augusto Milicchio
UMC-Universidade de Mogi das Cruzes

Hampered Cardio-Respiratory Function in a Mice Model of Autoimmunity Cardiomyopathy
Roberto Perez Campelo
UFRJ-Instituto de Bioquímica Médica

9:00 to 12:00 a.m. and 2:00 to 6:00 p.m. - DVD

Room 6
"Ensinando Ciência com Arte"
Leopoldo de Meis

1-programa-2005.pmd 25 6/6/2005, 12:38

Brasil Jovem e a Ciência

Domingo, 3 de julho – 17h às 18h30 – Sala 7

BJC 1

Glicobiologia do Câncer: a heparina como um agente anti-metastático.

Mauro Sérgio Gonçalves Pavão
Laboratório de Tecido Conjuntivo, Instituto de Bioquímica Médica, Programa de Glicobiologia e Hospital Universitário Clementino Fraga Filho, Universidade Federal do Rio de Janeiro – Rio de Janeiro

Segunda, 4 de julho – 8h às 8h30 – Sala 7

BJC 2

Controle do Metabolismo de Carboidratos

Mauro Sola-Penna
Laboratório de Enzimologia e Controle do Metabolismo (LabECoM), Fac. Farmácia, UFRJ.

Segunda, 4 de julho – 17h às 18h30 – Sala 7

BJC 3

O parasita Schistosoma mansoni*: dos genes a quimioterapia*

Marcelo Rosado Fantappié
Departamento de Bioquímica Médica, ICB, UFRJ

Terça, 5 de julho – 17h às 18h30 – Sala 7

BJC 4

Doenças Causadas por Príons*: O Dia em que a Vaca Ficou Louca!*

Débora Foguel
Laboratório de Agregação de Proteínas e Amiloidoses, Departamento de Bioquímica Médica, ICB, UFRJ.

1-programa-2005.pmd 26 6/6/2005, 12:38

Sessão de Cartazes

Salão Marques

Sábado	Domingo	Segunda	Terça
A 1 - 20	**A** 21 – 35	**A** 36 – 50	**B** 44 – 62
B 1 – 20	**D** 31 – 61	**B** 21 – 43	**C** 37 – 55
C 1 – 20	**E** 38– 64	**C** 21 – 36	**D** 62 – 85
D 1 – 30	**G** 21 – 40	**E** 65 – 98	**E** 99 – 131
E 1 – 37	**H** 32 – 61	**F** 31 – 54	**F** 55 – 80
F 1 – 30	**J** 12 – 22	**G** 41 – 60	**G** 61 – 79
G 1 – 20	**L** 36 – 70	**H** 62 – 91	**H** 92 – 121
H 1 – 31	**M** 24 – 61	**I** 1 – 15	**I** 16 – 29
J 1 – 11	**N** 39 – 91	**L** 71 – 105	**K** 15 – 24
K 1 – 14	**O** 1 – 10	**M** 62 – 86	**L** 106 – 136
L 1 – 35	**Q** 1 – 13	**N** 92 – 129	**M** 87 – 100
M 1 – 23	**R** 1 – 27	**P** 11 – 21	**N** 130 – 180
N 1 – 38	**S** 1 – 23	**R** 28 – 45	**P** 22 – 33
P 1 – 10	**T** 1 – 32	**S** 24 – 36	**R** 46 – 60
V 1 – 17		**T** 33 – 63	**S** 37 – 56
		U 1 – 14	**T** 64 – 83
			U 15 – 28

Legenda Áreas

A	Bioenergética, Canais e Transporte
B	Biologia Molecular dos Eucariotos Superiores
C	Bioquímica dos Estados Patológicos
D	Bioquímica e Biologia Molecular de Insetos
E	Bioquímica e Biologia Molecular de Plantas
F	Bioquímica e Biologia Molecular de Vírus e Bactérias
G	Bioquímica e Biologia Molecular dos Eucariotos Primitivos
H	Biotecnologia
I	Controle do Metabolismo
J	Crescimento Celular e Desenvolvimento
K	Educação em Bioquímica
L	Enzimas
M	Estrutura e Função de Carboidratos e Glicoconjugados
N	Estrutura e Função de Proteínas
O	Imunoquímica
P	Mecanismos de Ação de Drogas
Q	Membranas Biológicas e Sistemas Biomiméticos
R	Neuroquímica
S	Peptídios Biologicamente Ativos
T	Radicais Livres e Espécies Ativas de Oxigênio
U	Outros
V	Bioinformática

Palestras Técnicas

Domingo, 3 de julho - 10:30 às 12:00 – Sala 1

GE Healthcare Biosciences

ImageMaster 2D Platinum User Meeting

Michael Murgu, PhD
Product Specialist
GE Healthcare

ImageMaster 2D Platinum is a complete state-of-the-art software application designed to analyze two-dimensional electrophoresis (2-DE) gels. In these meeting, the main steps of analysis of a 2DE gel will be reviewed, including gel data organization, spot detection, matching, data analysis and statistical tests.

Domingo, 3 de julho - 14:30 às 15:30 – Sala 1

New CodeLink Custom Bioarray Program: define your own gene content and enjoy the benefits of the CodeLink Microarray System.

Regina Maki Sasahara, Ph.D.
Product Specialist

New Custom Bioarray Program greatly enhances the CodeLink System product portfolio and gives CodeLink customers the flexibility to define their own content and while still enjoying the performance benefits of the CodeLink System. Sensitivity, specificity, precision, and accuracy are all important for analysis of complex expression profiles using microarray technology. The CodeLink™ system from GE Heathcare ensures reliable performance for the highest quality microarray results.

Domingo, 3 de julho - 16:00 às17:00 hs – Sala 1

GE Healthcare Biosciences

The power of single-cell analysis & counting through microcytometry

Marcelo Anéas
Product Specialist

Guava Technologies has taken a fresh approach to “classic” applications. Guava has streamlined fluorescent cell-based assays and made them simpler by integrating instrument, software and reagents into a turnkey solution. When you upgrade to Guava cytometry solutions, not only do you gain many of the functional benefits of flow cytometry—you save so much in operating and acquisition costs. We call it the **Power of Less.**
Domingo, 3 de julho - 16:00 hs – Sala 3

ABCV – Associação Brasileira de Ciências da Vida

O Custo dos Materiais Importado no Brasil

Gisela Lis Bellinello
Diretora Executiva da ABCV

Sandra G. Reiser
Diretora Científica da ABCV

Domingo, 3 de julho às 14 horas – Sala 4

DIALAB DIAGNÓSTICOS

PCR and RT-PCR: From Amplification to Cloning and Protein Expression – New Methodologies.

Jayme Nunes de Souza Filho[1]; Ken Taylor[2]; Maria Carla Bastos Abdo[3]
1 Dialab Diagnósticos S/A; 2Integrated DNA Technologies-IDT; 3Promega Corporation

Recently, PCR-based techniques have been used to produce DNA fragments in order to be cloned. In routine, best primers associated with our MasterMix gives you easier and efficient way to amplify difficult templates. After adding dA at

1-programa-2005.pmd 28 6/6/2005, 12:38

3' ends (Taq leaves it *per si*), those products may be cloned into linearized T/A cloning plasmid (i.e., pGEM-T), linked by T4 DNA Ligase in just 1 hour. Also, reverse transcription reaction from mRNA needs to be taken in order to generate cDNAs to be cloned. Promega has offered an unique modified reverse transcriptase called *ImProm-II* which works up to 55 C without any Rnase activity; excellent for extension of long transcripts (up to around 9 kb of mRNA).
All those steps will be discussed including real-time PCR as quantitative assay using labelled primers (Plexor Systems) and new others methodologies such as transferring vectors (Flexi Vectors) and Interchangeable Labelling Technology (HaloTag).
UNDERSTAND YOUR NEEDS AND HELPING YOU ACHIEVE SUCCESS. IS A PRIORITY AT PROMEGA, IDT AND DIALAB.

Segunda, dia 4 de julho, das 14:30 às 15:30 – Sala 1

GE Healthcare

Ettan MDLC – A new multidimensional liquid chromatography (MDLC) system for proteomics applications.

Michael Murgu, PhD
Product Specialist

This new multidimensional liquid chromatography (MDLC) system for proteomics applications is the latest development in the range of LC systems from GE Healthcare. The Ettan MDLC provides dual functionality in terms of protein and peptide pre-fractionation and nanoscale multidimensional peptide separation of complex sample mixtures all in one instrument. By providing on-column gradient monitoring, high throughput, wide dynamic range and a bio-inert flow path, this system helps to overcome most of the major challenges in today's proteomics applications such as separation of labile peptides (e.g. post translational modifications) and analysis of low abundant proteins and biomarkers in complex sample mixtures.

Segunda, 4 de julho das 16:00 às 17:00 hs - – Sala 1

GE Healthcare Biosciences

Comprehensive Analysis of MAPK Signal Transduction Cascade

Marcelo Anéas
Product Specialist

We show here a multi-disciplinary approach to investigate MAPK signal transduction cascade using distinct technologies. The study was focused on ERK activation nuclear translocation study using the IN Cell Analyzer 1000, a high-content screening platform, for cell-based assays. On a second step functional analysis and protein abundance variation was made with the DIGE technology and, finishing the study ERK dependent gene expression was accessed with the CodeLink platform.

Segunda, 4 de julho - 10:00 hs – Sala 3

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Segunda – 4 de julho às 14:00 horas – Sala 3

Invitrogen Brasil

Protoarrays: Nova ferramenta de análise de interações proteína -proteína

Marcelo Bravo
Invitrogen Brasil

O Microarray de proteínas é uma nova alternativa para identificar e caracterizar interações proteicas, permitindo a identificação rápida de novas interações entre milhares de proteínas em um simples experimento.

1-programa-2005.pmd 29 6/6/2005, 12:38

Segunda, 04 de julho às 16:00 hs – Sala 3

Invitrogen Brasil

Cytomics: Análise do Proteoma em Nível Celular

Carla Guimarães
Invitrogen Brasil

Utilização de anticorpos monoclonais como ferramenta de detecção de biomoléculas: visualização, quantificação e análise do produto da expressão gênica em nivel celular.

Segunda, 4 de Julho às 14:00 às 15:00h e 16:30 às 17:30h – Sala 4

WATERS TECHNOLOGIES

Simultaneous Qualitative and Quantitative Protein Expression Analysis by LC/MS; Whole Organism and Cell Proteomics and the Challenges of Complex, Dynamic Samples

Dr. LeRoy Martin
Waters-Micromass - UK

Current methodologies for protein quantitation include 2DE Gel Electrophoresis, stable isotope coded affinity tags (ICAT, GIST), metabolic labeling (15N), and stable isotope labeling with amino acids in cell culture (SILAC). Recently, there has also been great interest in using ion intensities of peptides derived from proteolytic digests for relative differential quantitation. While capable of many accurate quantitiative measurements, the many of the methods lack the ability to simply identify the peptides and thereby the proteins that are being monitored. In this work, we present methods based on accurate mass LC/MS where intact peptide ions are tracked for quantitative measurement, and co-eluting fragment ions are combined with these precursors for simultaneous qualitative assessment.

Segunda-feira, 04 de julho, 10:30 às 12:30 e 16:00 às 18:00– Sala 5

Nova Analítica

Proteomics Solutions at Thermo Electron Mass Spectrometry

Dr. Larry A. Burchfield
Latin America manager, Thermo Electron

Mass spectrometry in proteomics today addresses three broad application areas, identification of individual proteins from a mixture, quantification of proteins in a cell or organism and characterization of proteins to better explain its characteristics. Identification of all the proteins in a cell or organism is often a daunting task and poses a challenge even in the case of simple bacteria. Tandem mass spectrometry is currently used for protein identification studies. Ion trap mass spectrometers generate high quality data and represent the state-of-the-art in protein identification research. Contents: Sample Prep - 2D Gel Electrophoresys and 2D LC/MS - Mass Spectrometry Analysis - Bioinformatics.

Segunda, 04 de julho – 14:00 às 15:00 – Sala 6

Eppendorf do Brasil

RealPlex – trazendo o futuro para o presente! Sistema Eppendorf para PCR em tempo real

Luciana Gilbert Pessoa
Especialista de Produtos

Novo sistema para qPCR. Extremamente rápido, modular, flexível. Diversas opções ópticas para 2, 4 ou 6 filtros. Especialmente projetado para facilitar qPCR, qRT-PCR, genotipagem, desenho do primer e sonda, seleção de marcadores fluorescentes, quantificação relativa e absoluta, medida de end point e análise de erros.

1-programa-2005.pmd 30 6/6/2005, 12:38

Segunda, 04 de julho – 15:00 às 16:00hs – Sala 6

Eppendorf do Brasil

Como resolver problemas nas reações de PCR

Ana Paula Aukar
Especialista de Produtos

Soluções que vão desde diversos sistemas de extração de ácidos nucléicos até aplicação de enzimas especiais para por ex.: PCRs longos, complexos, de hot start, PCR em tempo real.

Segunda, 04 de julho – 16:00 às 17:00hs – Sala 6

Eppendorf do Brasil

EpMotion 5070 e 5075: novas workstations Eppendorf automatizadas e semi-automatizadas

Carlos Eduardo Brancato
Especialista de Produtos Senior

Conheça as novas estações de pipetagem da Eppendorf. Sistemas automatizados que processam amostras a partir de diversos tubos ou placas e são indicados para melhorar a reprodutibilidade, produtividade e a precisão das técnicas utilizadas. Especialmente desenvolvidos para aplicações em biologia molecular.

Segunda, 04 de julho – 17:00 às 18:00hs Sala 6

Eppendorf do Brasil

Ferramentas para manipulação de células

Ana Paula Aukar
Especialista de Produtos

Apresentaremos sistemas que trazem soluções para Biologia Celular como injeções em diversos tipos celulares até a microdissecção de tecidos para posterior análise por diversas técnicas de biologia molecular. Sistema para produção de animais transgênicos. Soluções em eletrofisiologia: Patch clamp.

Terça, 5 de julho - 14:30 às15:30 hs – Sala 1

GE Heathcare Bio-Sciences

Pre-Clinical imaging
In vivo fluorescence imaging, physiology, anatomy and imaging function for research and drug discovery

Sandra Rosa da Silva, Msc
Gerente de grupo de produto

Pre-clinical imaging have been utilizing by reserchers to visualize phenotypes, to study the progession of disease and to evaluate the efficacy of potential treatments in animal models. Pre-clinical imaging technologies such as small animal microCT, PET and *and in vivo* fluorescence optical imaging provide an avenue for more rapid and cost-effective characterization of animal disease models. GE Healthcare pre-clinical imaging systems provide a comprehensive toolkit of pre-clinical sacanners and software applications for small animal anatomical and functional imaging.

Terça, 5 de julho - 9:00 hs – Sala 3

ABCV – Associação Brasileira de Ciências da Vida

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Diretora Executiva da ABCV

Sandra G. Reiser
Diretora Científica da ABCV

1-programa-2005.pmd 31 6/6/2005, 12:38

Título dos Resumos

Conferências

CF.01 **Control of Neurotransmitter and Hormone Release by Ca^{++} and cAMP**
Erwin Neher

CF.02 **Inhibition of Cyclooxygenases-1 and -2. What Do We Know and Where Do We Go From Here?**
Lawrence J. Marnett

CF.03 **Oportunidades e Desafios na Inovação e Transferência de Tecnologia em Bioquímica e Biologia Molecular: A identificação de m Novo Vírus Associado a Doença Morte Súbita dos Citros.**
Ana C. R da Silva

CF.04 **New Therapeutic Strategies for the Treatment of Alzheimer's Disease**
Linda J. Van Eldik, Jeffrey M. Craft, Wenhui Hu, Hantamalala Ralay-Ranaivo, and D. Martin Watterson

CF.05 **Protein Glycosylation Conserved from Yeast to Man. How a Model Organism Helped to Analyze Severe Human Diseases.**
W. Tanner

CF.06 **The Dark Side of Protein Folding: Studies with Amyloidogenic Proteins**
Débora Foguel

CF.07 **A Brief History of Glycosaminoglycans: Past, Present and Future.**
Nader, H.B. in honor of Prof. C.P. Dietrich

CF.08 **Factors Controlling Protein Turnover and Development in the Filamentous Fungus *Aspergillus nidulans***
Gerhard H. Braus

CF.09 **Cytomics and Cytomics Technologies in Cardiovascular disease**
Attila Tarnok PhD

CF.10 **Comparative Genomics of the Three Model Trypanosomatids: *Trypanosoma brucei*, *Trypanosoma cruzi* and *Leishmania***
Najib M. El-Sayed, Peter Myler, Gaëlle Blandin, Neil Hall & the TriTryp consortium

CF.11 **Descafeinando o Café: do Natural ao Trangênico**
Paulo Mazzafera

CF.12 **Regulation of Actin Polymerization and Cell Motility by IQGAP1**
George S. Bloom, Scott C. Mateer, Ningning Wang, Lorena B. Benseñor, Leah E. Morris, and Dorothy A. Schafer

CF.13 **Peptides and Therapeutics**
Fernando Albericio

CF.14 **The Molecular Motor of Plasmodium Parasites**
Carlos A. Buscaglia and Victor Nussenzweig

CF.15 **Function and Evolution of Salivary Components in *Rhodnius prolixus***
John F. Andersen

CF.16 **News in the Field of Astroglial Functions in the Central Nervous System**
Marcienne Tardy

CF.17 **Chagas: Parasita é Vetor de Doença Genética**
Antonio R.L. Teixeira

CF.18 **About the Metal Specificity of P1-type ATPases**
Elisabeth Mintz

CF.19 **Generation of ^{18}O-Labeled Singlet Molecular Oxygen from Lipid Hydroperoxides: Measurement and DNA Damage**
Paolo Di Mascio

CF.20 **Protein Synthesis: An Ancient Process with Unexpected Diversity Throughout the Living World.**
Dieter Soll

CF.21 **Direct and Sensitized Damage Induced by Solar Radiation to Cellular DNA: Formation and Repair**
Jean Cadet, Sphie Courdavault, Jean-Luc Ravanat and Thierry Douki

CF.22 **Stability of Proteins encapsulated in Poly(lactic-co-glycolic acid) Delivery Systems**
S. P. Schwendeman

Simpósios

SP.01-1 **Free-Radical Initiation and Termination Reactions in Biochemistry**
Alberto Boveris

SP.01-2 **Design and Biological Characterization of Novel Antiatherogenic Tocopherol Analogs - Nitric Oxide Donors**
Homero Rubbo

SP.01-3 **Protective Effect of Melatonin on Rotenone Plus Ca^{2+}-Induced Mitochondrial Oxidative Stress and PC12 Cell Death**
Castilho, R.F.; Sousa, S.C.

SP.01-4 **Thyroid Hormone (T3)-Induced Liver Oxidative Stress and Redox Regulation of Gene Expression.**
Luis A. Videla

SP.02-1 **Neurochemical Alterations Related to Temporal Lobe Epilepsy**
Naffah-Mazzacoratti MG

2-Resumos.pmd 32 6/6/2005, 12:38

SP.02-2 **Evaluating New Molecules and Activities from *Lonomia obliqua* Caterpillar**
Chudzinski-Tavassi, AM, Reis, CV, Flores, MPA, Pereira, ALM, Fritzen, M

SP.02-3 **The Role of MBL in the Infectious Disease and Atherosclerosis**
Cavalcanti, M.S.M., Moura, P., Muniz, M.T. C., Pereira, L.M.M.B., Arraes, L.C., Lima Filho, J.L., Miranda, K., Vasconcelos, L.R.S., Melo, F.M., Cordeiro, M.T., Anders, E.M., and Crovella, S.

SP.02-4 **Action of Plant Proteinase Inhibitors on Inflammatory and Tumor Models**
Maria Luiza Vilela Oliva

SP.03-1 **Pathophysiology of redox processes in vascular diseases**
Francisco R. M. Laurindo

SP.03-2 **Cellular and Molecular Mechanisms of th Lipopreotein Induced Atherogenesis**
Eder Carlos Da Rocha Quintao

SP.03-3 **Role of Lipids on the Hypothalamic Control of Hunger and Thermogenesis**
Licio A. Velloso

SP.03-4 **Molecular Signaling Triggered by Mechanic Stimulation in Cardiac Myocytes: Adaptation to Metabolic Needs**
Kleber G. Franchini

SP.04-1 **Directed Evolution in Metallo-Beta-Lactamases: Natural vs. *In Vitro* Fine Tuning of Enzyme Activity**
Alejandro J. Vila

SP.04-2 ***In vitro* evolution of sugarcane cystatins**
Flavio Henrique Silva

SP.04-3 **Evolution of Structure and function in the -lactamase/DD-peptidase fold**
L. Segovia, M.Peimbert, V. Escobar, A. Morán and H. Barrios

SP.04-4 **Screening of Functional Insecticidal Molecules Using Shuffled Libraries.**
Grossi-de-Sa, M. F.

SP.05-1 **A Framework for Integrating DNA sequence, mRNA and Protein Expression Profiles**
Kelvin H. Lee

SP.05-2 **Effect of Ammonium Ions on the Differential Expression of Proteins in *Herbaspirillum seropedicae***
Seixas, D.F., Monteiro, R.A., Souza, E.M., Chubatsu, L.S., Yates, M.G. Steffens, M.B.R., Rigo, L.U., Wassem, R., Cruz, L.M. and Pedrosa, F.O.

SP.05-3 **Proteomics Links Protein Chemistry to Biology**
Lewis J. Greene, Sandra R. P. Faça, Vitor M. Faça, Gustavo A. de Souza, Lyris M.F. Godoy, J. César Rosa, Marco A. Zago, Dimas T. Covas, Roger Chammas

SP.05-4 **A Proteome Reference Map For Gluconacetobacter Diazotrophicus PAL5**
Lery, LMS; Medeiros, MS; Santos, MF; Santos, EO, Mortera, P; von Kruger, WMA, Domont, GB; Teixeira, KRS; Coelho, A, Bisch, PM

SP.06-2 **Heterofucans from Brown Algae as Alternative Sources of Antithrombotic and Antiadhesive Agents**
Rocha, HAO, Leite, EL, Santos, EA, Chavante, SF, Oliveira, FW, Paiva, JF, Souza Filho, JF, Abreu, LD, Jerônimo, SMB, Nader, HB, Dietrich, CP

SP.06-3 **Molecular and Cellular Learning on Extracellular Matrix and Toxins of Venomous Animals.**
Silvio Sanches Veiga

SP.06-4 **Learning to the Beat of a Different Drum. From Heparin to Glycosphingolipids**
H.K. Takahashi

SP.06-5 **From the Glycosaminoglycans Interaction with Cystein Protease to the Foundation of Centro Interdisciplinar de Investigação Bioquímica, UMC.**
Tersariol, I.L.S. and Almeida, P.C.

SP.06-6 **Neoplasic Transformation and Modulation by Extracellular Matrix: The Role of Proteoglycans, EGF Receptors and Heparanase.**
Maria Aparecida da Silva Pinhal

SP.07-1 **Structural Bioinformatics - Understanding Protein Structure and Function**
Gerard J Kleywegt

SP.07-2 **Genômica Comparativa: do Alinhamento de Seqüências ao Enovelamento Proteíco**
Ana Tereza Ribeiro de Vasconcelos

SP.07-3 **Protein Electrostatics: Methodological Issues and Some Theoretical Applications on Structural Biophysics**
Fernando Luis Barroso da Silva

SP.07-4 **In Silico Identification of Active Site Residues**
Paula Kuser Falcão

SP.08-1 **Integrating Genomic, Functional, Proteomic, and Structural Data of Macromolecular Complexes of Trypanosomes.**
Mariano J. Levin

SP.08-2 **NON-Coding RNAs from *Leishmania major*: Looking for Targets**
Graminha M.A.S.; Nogueira, K.C.; Mangini, R.; Ruiz, J.C. and Cruz, A.K

SP.08-3 **Differential Gene Expression in *Trypanosoma Cruzi* Strains from Chagasic Patients**
Baptista, C.S., Vêncio, R., Abdala, S.B., Pereira, C.A.B. and Zingales, B

SP.08-4 **Structural Biology in Parasitic Infectious Diseases**
Guido, R.V.C., Andricopulo, A., Castilho, M.S., Garratt R.C., Thiemann, O.H., D'Muniz, H., Vieira, P.C., Pupo, M.T., Fernandes, J.B., Silva, M.F.G.F., Correa, A.G. and Oliva, G.

Título dos Resumos

SP.09-1 **Citrus Genomics in Brazil (CitEST): experiences and future perspectives**
Marcos A. Machado, Gustavo Astua-Monge, Maria L.P.N Targon, Marco A.Takita, Juliana Freitas-Astua, Alessandra A. Souza, Helvécio D. Coletta Filho, Alexandre M. Amaral, Mariangela Cristofani, Marines Bastianel, Darío A. Palmieri, Ana Carolina Basílio

SP.09-2 **Genomics of the *Crinipellis perniciosa*-Theobroma cacao pathosystem (witches' broom).**
Júlio C M Cascardo & Gonçalo A G Pereira

SP.09-3 **Building Resources for Molecular Breeding of Eucalyptus: The Genolyptus Project**
Dario Grattapaglia, Acelino Alfenas, Alexandre Coelho, Georgios Pappas, Giancarlo Pasquali, Gonçalo Pereira, Jorge Colodette, José Livio Gomide, Julio Bueno, Julio Cascardo, Rosana Brondani, Sergio Brommonschenkel

SP.09-4 **Projeto Genoma Café: Recursos para Genômica Funcional**
Luiz Gonzaga Esteves Vieira

SP.10-1 **Differentiating Pathogenic from Non-Pathogenic aPL by a beta 2-glycoprotein I Dependency Anti-Cardiolipin ELISA Assay**
Roger A.Levy, Ernesto de Meis, Silvia Pierangeli

SP.10-2 **Molecular Mechanisms for Activation of Blood Coagulation in Cancer**
Robson Q. Monteiro

SP.10-3 **Sulfated Galactan as an Anticoagulant and Antithrombotic Agent**
{Mariana Sá Pereira}, Fábio R. Melo, Paulo A.S. Mourão

SP.10-4 **Critical role of the blood coagulation in Malaria: *Plasmodium falciparum*-infected red blood cells induce Tissue Factor expression by Endothelial Cells and support the assembly of coagulation complexes**
Ivo M.B. Francischetti

SP.11-1 **Structural and Funcional Characterization of Antioxidant Proteins**
Luis Eduardo Soares Netto e Marcos Antonio de Oliveira

SP.11-2 **Learning How to Work with Structure and Function of *Triatoma infestans* Proteins**
Sergio Schenkman

SP.11-3 **The Crystal Structure of YaeQ from *Xanthomonas axonopodis* pv citri.**
Cristiane R. Guzzo, Ronaldo A. P. Nagem, Leonor M. P. Galvão-Bottona, Beatriz G. Guimarães, Francisco J. Medrano, João A. R. G. Barbosa and Chuck S. Farah

SP.11-4 **Achievements in crystallographic structure determination by SMolBNet groups**
Barbosa, J. A. R. G.

SP.12-1 **Transcriptome Analysis of Head and Neck and Thyroidtumours Based on the Generation and Analysis of 200,000 ESTs**
Emmanuel Dias Neto

SP.12-2 **Analise do Perfil de Expressão Gênica em Tumores Humanos através de cDNA Microarray**
Luiz Fernando Lima Reis

SP.12-3 **Microarray-based methods for monitoring rare transcripts, DNA methylation, and protein binding to promoters**
Yipeng Wang, Jun Hayakawa, Shalu Mittal, Kemal Korkmaz, Qiuju Yu, Ann Cho, Gaelle Rondeau, Eileen Adamson, John Welsh, Dan Mercola and Michael McClelland

SP.12-4 **Análise de SAGE em Tumors Humanos**
Wilson Araújo da Silva Junior

SP.13-3 **O Ensino de Ciências no Brasil: Podemos ir Além do Muro do Construtivismo?**
Rocha, J.B.T., Folmer, V.. Soares, F.A.

SP.13-4 **A Era das Trevas e o Iluminismo**
Leopoldo de Meis, Luis Dourado, Alexandro Machado e Diucênio Rangel

SP.14-2 **Basic and Applied Aspects for Color Tuning of Bioluminescence Systems**
Yoshihiro Ohmiya

SP.14-3 **A new firefly luciferase with bimodal spectrum: structural determinants, biological function and biosensing applications of pH-sensitivity in beetle luciferases**
Vadim Viviani, T. L. Ohelmeyer, F. G. C. Arnoldi and F. T. Ogawa

SP.14-4 **Fungi Bioluminescence: Mechanistic Study and Application in Environmental Toxicology**
Cassius Stevani

SP.15-1 **Estrogen Receptor Structures Reveal the Basis of SERM Action and Ligand Discrimination**
Geoffrey L. Greene, Yaling Wu and Kendall Nettles.

SP.15-2 **Structural Studies of the Peroxiredoxin AhpE from *Mycobacterium tuberculosis***
Figueiredo da Silva, A.A, Haouz, A., Alzari, P.M. and Guimarães, B.G.

SP.15-3 **Isoform-specific Ligands of Thyroid Hormone Nuclear Receptor and Structural Basis of Their Interactions with the Receptor.**
Lucas Bleicher, Ana Carolina N. Figueira, Alessandro S. Nascimento,Fabio M. Nunes, Ricardo Aparicio, Sandra M. G. Dias, Maria A. M. Santos, Mario de Oliveira Neto, Leandro Martínez, Munir S. Skaf, James W. Apriletti, John D. Baxter, Paul Webb, Francisco A. R. Neves, Luis A. Simeoni and Igor Polikarpov}

SP.15-4 **Structural Characterization of Dihydroorotate Dehydrogenase: A Promising Target Against Tropical Diseases**
Nonato,M.C.

SP.16-1 **RNase-L Inhibitor (RLI) and RNA Interference (RNAi)**
Rogério Margis

SP.16-2 **Recent Developments in the Biomedical Applications of *In Viv* RNA Interference**
Iscia Lopes-Cendes

SP.16-3 **Use of RNAi in the Validation of Potential Kinetoplastidae Drug Targets**
Mantovani, M.; Sturm, N.; Campbell, D.A. & Thiemann, O.H.

SP.16-4 **Vitellogenin has a Tegulatory Function in Honey Bee Workers, as Revealed by iRNA.**
Zilá Luz Paulino Simões

SP.17-1 **Effects of Plant Extracts on Pdr5p from Yeast - A New Hope to Solve the Multidrug Resistance Phenotype?**
Antonio Ferreira Pereira

SP.17-2 **Verapamil-sensitive Increase in Intracellular Ca^{2+} Stimulates Oxidative Phosphorylation and Reactive Oxygen Species Production during Lymphocyte Activation in Walker 256 Tumor Bearing Rats**
Giovanna Rosa Degasperi

SP.17-3 **Kinase-Mediated Regulation of the Plasma Membrane Calcium Pump.**
Adalberto Vieyra

SP.17-4 **The Cu^{+}-chaperone Atx1 can be Replaced by Cd^{2+}- or Hg^{2+}-Binding Proteins in Delivering copper to the Secretory Pathway in Yeast**
Isabelle Morin, Martine Cuillel, Jennifer Lowe, Serge Crouzy, Florent Guillain and Elisabeth Mintz

SP.19-1 **Interaction of Labiatae lectins with Cells.**
Gerardo Pérez, Nohora Veja

SP.19-2 **Profitable Lectin-Microorganism Interactions**
Correia, M.T.S., Carneiro-da-Cunha, M.G.; Araújo, J.M., Campos-Takaki, G.M.; Carneiro-Leão, A.M.A.; Paiva, P.M.G.; Coelho, L.C.B.B.

SP.19-3 **Cell wall Degradation is Controlled by Temperature Dependent Polysaccharide Conformation Synchronised with Temperature Dependent Enzyme Activation.**
Miguel José Minhoto, Paulo Henrique Netto de Alcântara, Marco Aurélio Silva Tiné, Sonia Machado Campos Dietrich, Marcos Silveira Buckeridge

SP.19-4 **Cell Wall Polysaccharides: Endogenous Ligands for the Plant Cell Lectins**
Renato de Azevedo Moreira, Daniele Maria Alves Teixeira, Fany Reicher, Leila Maria Beltramini

SP.20-2 **Molecular Dynamic Simulations of Proteins for Drug Design and Discovery**
Osmar Norberto de Souza

SP.20-3 **Structural Models of Shikimate Pathway Enzymes**
Walter F. de Azevedo Jr.

SP.20-4 **Molecular Modeling Study on the Na^{+} Binding Channel of Human Coagulation Enzymes**
Floriano P. Silva-Jr, Octávio A. C. Antunes, Ricardo B. De Alencastro Salvatore G. De Simone

SP.21-1 **Cell Death Regulation: Lessons from *Drosophila***
Sharad Kumar

SP.21-2 **Cross-Talk Between Innate and Adaptive Immunity: TLR4/MYD88-Dependent, LPS-Induced Synthesis of PGE2 by Macrophages or Dendritic Cells Prevents Anti-CD3-Mediated Apoptosis of T Cells**
Weinlich, R.; Bastos, K.R.B.; Chehab, C.; Ulbrich, A.; Jancar, S.; Russo, M. & Amarante-Mendes, G.P.

SP.21-3 **Targeting Early Events of Programmed Cell Death Following Axon Damage in Retinal Ganglion Cells**
R. Linden, H. Petrs-Silva, L.B. Chiarini, V. Chiodo & W.W. Hauswirth

SP.21-4 **The Role of p21Ras and the Mitogen-Activated Protein Kinases in Nitric Oxide-Induced Human Monocytes Apoptosis**
Hugo P. Monteiro and Maristela Tsujita

SP.22-1 **Transcription Profiling of Signal Transduction-Related Genes in Sugarcane**
Glaucia Mendes Souza

SP.22-2 **Gene Expression Associated to Sucrose Metabolism in Sugarcane**
Marcelo Menossi

SP.22-3 **Transcriptome Analysis of Sugarcane Plants in Response to Herbivore Insects by DNA Macroarrays**
Marcio C. Silva-Filho

SP.22-4 **Sugarcane Signaling during Association with Endophytic Diazotrophic and Hormone-Producing Bacteria**
Vinagre, F.; Nogueira, E.M.; Cavalcante, J.J.V.; Vilar, C.V.; Schwarcz, K; Carvalho, T.L.G.; Pádua V.L.M.; Baldani J.I.; Ferreira P.C.G.; and Hemerly, A.S.

SP.23-1 **Voltage-Gated Calcium Channels: From Molecular Cloning to Novel Therapeutics for Human Disease**
Terrance P. Snutch

SP.23-2 **Independent Regulation of Nuclear Versus Cytosolic Calcium**
M. Fatima Leite, Michele Rodrigues, Alfredo M. Goes, Michael H. Nathanson

SP.23-3 **Neuropeptides and Retinal Development: Multiple Roles for PACAP.**
Silveira, M.S.; Njaine, B.; Martins, R.A.P. and Linden, R.

SP.23-4 **Mechanisms Involved in the Facilitation of Phosphoinositide Dynamics in PC12 Cells Overexpressing Neuronal Calcium Sensor-1**
Guimarães, M.M.; Reis, H.J.; Guimarães, L.P.; Gomez, M.V.; Jeromin, A.; {Romano-Silva, M.A.

2-Resumos.pmd 35 6/6/2005, 12:38

Título dos Resumos

Jovem Talento

JT.18-1 **Targets For Functional Studies Selected by Subcellular Proteome of *Leishmania major***
Arthur Henrique C. de Oliveira (G-17)

JT.18-2 **Low-Resolution Structural Study of Two Human Hsp40 Chaperones.**
Júlio C. Borges; Hannes Fischer, Aldo F. Craievich and Carlos H.I. Ramos

JT.18-3 **Heme, a Proinflammatory Molecule, Delays Human Neutrophils Apoptosis Preserving Mitochondria Stability Through the Differential Expressiona of Bcl-2 Family Proteins.**
Maria Augusta Arruda (C-9)

JT.18-4 **Impairment of Energy Metabolism Is Involved in The Mechanisms of Neurodegeneration of Glutaryl-Coa Dehydrogenase Deficiency (GDD)**
R. Borba Rosa, A. Latini, K. Scussiato, G. Leipnitz, D. Reis de Assis, G.C. Ferreira, C. Funchal, M.C. Jacques-Silva, L. Buzzin, R. Giugliani, A. Cassina, R. Radi and Moacir Wajner.

JT.18-5 **Neurochemical Characterization of a Novel Neuroprotective and Anticonvulsant Component from *Parawixia bistriata* Spider Venom that Inhibits Synaptosomal Uptake of GABA and Glycine.**
Beleboni, R.O; Guizzo, R.; Fontana, A.C.; Pizzo, A.B.; Carolino, R.O.G.; Gobbo-Neto, L.; Lopes, N.P.; Santos, W.F; Coutinho-Netto, J.

Brasil Jovem e a Ciência

BJC.01 **Glicobiologia do Câncer: a heparina como um agente anti-metastático.**
Mauro Sérgio Gonçalves Pavão

BJC.02 **Controle do Metabolismo de Carboidratos**
Mauro Sola-Penna

BJC.03 **O parasita *Schistosoma mansoni*: dos genes a quimioterapia**
Marcelo Rosado Fantappié

BJC.04 **Doenças Causadas por *Príons*: O Dia em que a Vaca Ficou Louca!**
Débora Foguel

Resumos

Bioenergética, Canais e Transporte

A-1 **Mitochondrial ATP-Sensitive K^+ Channels Avoid Oxidative Stress During Ischemia/Reperfusion.**
Facundo, H.T.F., de Paula J.G., Kowaltowski, A.J.

A-2 **Evidences of the Presence of Alternative Oxidase, Uncoupling Protein and Ca^{2+} Transport in Mitochondria of a Gymnosperm**
Mariano, A.B.; Kovalhuk, L.; Valente, C.; Maurer-Menestrina, J.; Pereira-Netto, A.B.; Rocha, M.E.M.; Cadena, S.M.S.; Martinez, G.R.; Oliveira, M.B.M.;Salgado,; Carnieri, E.G.S.

A-3 **Could gamma-radiation affect enzymes of human RBC Plasma Membrane?**
Moreira, OC; Barbosa, LA; Oliveira, VH; Mignaco, JA; Araújo, AAC; Nogueira, CM.; Fontes; CFL.

A-4 **Investigation of the modulatory effects of fractions obtained from the plant extracts of *Mabea fistulifera* and *Bauhinia microstachya* var. *massambabensis* on ATPase activity of the yeast multidrug transporter Pdr5p**
Rangel, L.P.; Abreu, L.F.; Leo, R.R.T.; Vieira, R.C.; Leitão, S.G.; Leitão, G.G.; Goffeau, A.; Ferreira-Pereira, A.

A-5 **IDENTIFICATION AND CHARACTERIZATION OF A PROBABLE ABC TRANSPORTER FROM *F. PEDROSOII* PLASMA MEMBRANES**
Livramento, G. N.; Dias, F. A.; Alviano, D. S.; Alviano, C. S.; Ferreira-Pereira, A.

A-6 **Effect of Glucose Free Medium and Fructose-1,6-Bisphosphate in Glucose Free Medium on the Heart: Reversal Reaction Catalyzed by Hexokinase and Phosphofrutokinase-1**
Joyce Ferreira Carvalho; Vaneza da Rocha Gripp; Paloma Soares de Melo; Leopoldo de Meis

A-7 **Cta4 ATPase, the member of P5 sub-family of P-type ATPases, is required for endoplasmic reticulum function and calcium transport in the fission yeast *Schizosaccharomyces pombe***
Lustoza, A.C.D.M.; Palma, L.M.; Okorokov, L.A.; Okorokova-Façanha, A.L.

A-8 **Concentration Dependent Effects of Organotellúrium (IV) Compounds on the Mitochondrial Bioenergetics and Membrane Model Systems**
Pessoto, F.S.; Cunha, R. L. O. R.; Rodrigues, T.; Comasseto, J.V.; Nanes, I.L.

A-9 **Heterologous expression of a mitochondrial alternative oxidase from *Paracoccidioides brasiliensis* causes cyanide resistance in *S. cerevisiae***
Martins, VP; Magnani, T; Soriani, FM; Tudella, VG; Goldman, GH; Uyemura, AS

A-10 **Analysis of the interaction of the inhibitor Br_2-TITU with tryptophan residues in SR Ca^{2+}TPase expressed in yeast**
Carreira, A.C.O., and Verjovski-Almeida, S.

A-11 **HEAT PRODUCTION BY Ca^{2+}ATPase FROM TERMINAL CISTERNAE AND LONGITUDINAL SARCOPLASMIC RETICULUM**
Arruda, A.P., Oliveira, G.M.,Nigro,M.,Carvalho D.P. and de Meis L.

A-12 **The K^+-dependent and K^+-independent H^+-PPase of *Vigna unguiculata* : two subclasses and six subforms in secretory pathway**
C.E. de S. Teodoro; A.L. Okorokova-Façanha and L.A. Okorokov

A-13 **The adaptation of yeast grown under a high Ca^{2+}tress: a stimulation of all Ca^{2+}TPases and $Ca^{2+}H^+$ antiporters of secretory pathway.**
Silva, F.E.; Ribeiro, C.C.; Okorokov, L.A.

A-14 **Differential activation of the root surface H^+fluxes in *Medicago truncatula* as a function of the phosphate supply**
Ramos, A.C.; Feijó, J.A.; Antão, J.; Costa, S.; Cordeiro, S.M.; Faria, L.C.A.N. & Façanha, A.R.

A-15 **Auxin inhibitors impair humic acids activity on plasmalema proton pumps and maize root development**
Zandonadi, D. B.; Canellas, L. P.; Façanha, A. R.

A-16 **Characterization of Chelerythrine as Inhibitor of Ion-Transporting ATPases.**
Catarina Coutinho Pereira Prima; Vanessa Honorato de Oliveira; Helena Maria Scofano; Carlos Frederico Leite Fontes; Julio Alberto Mignaco

A-17 **Characterization of mitochondrial oxygen consumption in the mosquito *Aedes aegypti***
R. L. S. Gonçalves, P. L. Oliveira, A. Galina, M. F. Oliveira.

A-18 **Effect of marine sponges on Pdr5p catalytic activity of *Saccharomyces cerevisiae***
Ferreira, P.F.; Livramento, G. N., Muricy, G., Goffeau, A. and Ferreira-Pereira, A.

A-19 **Studies on yeast multidrug resistance protein Pdr5p: inhibition by Solanum gilo extracts**
Garcia-Gomes, A. S.; Rangel, L.P.; Feitoza, M. S.; Leitão, S.G.; Goffeau, A.; Ferreira-Pereira, A.

A-20 **The colonization of freshwater by the Crustacea: biochemical characterization of the gill (Na^+,K^+)-ATPase of the hololimnet red crab *Dilocarcinus pagei***
Firmino, K.C.S.; Masui D.C.; McNamara[1] J.C.; Leone F.A. and Furriel R.P.M.

A-21 **Cloning and expression of Arabidopsis thaliana uncoupling protein 5 gene and characterization of the recombinant protein.**
Oliveira, K.A.P.; Borecký, J.; Arruda, P.; and Vercesi, A.

A-22 **THE ROLE OF K^+ IN Ca^{2+}-ATPase FROM LIGHT AND HEAVY SARCOPLASMIC RETICULUM**
Nigro, M, Arruda, A.P. and de Meis, L.

A-23 **Sarco(endo)plasmic reticulum Ca^{2+}-ATPase activity of acclimated Goldfish (*Carassius auratus*) white muscle at 5o and 25oC.**
Reinaldo Sousa dos Santos; Ana Maria L. Fernandez; Leopoldo de Méis

A-24 **Some plant trypanosomatids can be strongly affected by Tomatine, a tomato glycoalkaloid.**
Medina, J. M.; Moreira, O. C. and Barrabin, H.

A-25 **The flesh gelling disturbance in papaya fruits are related to a decrease in the plasmalema and tonoplast ATP-dependent H^+ gradient**
Azevedo I. G., Coutinho, K. S., Façanha, A. R. and Oliveira, J. G.

A-26 **Detection of the K^+-dependent and K^+-independent H^+-PPases in the secretory pathway organelles of the *Nicotiana tabacum* culture cells.**
C.E. de S. Teodoro; D.F. da Rocha; R.M. Monterio; A.L. Okorokova-Façanha and L.A. Okorokov

A-27 **Glucose uptake in *Trichoderma reesei*: functional characterization of the *Trhxt1* gene**
A.S.P. Ramos; E.D. Bonaccorsi; F.S. Chambergo; A.J.S. Ferreira; C.J. Marchi and H. El-Dorry

A-28 **Dual effect of Dolabellano 3, a diterpene from marine brown algae on erythrocyte PMCA**
Costa, E. S.; Carvalho, A.P.; Teixeira, V.L.; Pereira, R.C.; Frugulhetti, I.C.P.P.Abrantes, J.L.; Cavalcanti, D.; Barbosa, J.P.; Soares, A.; Fontes, C.F. L.; Mignaco, J.A.; Oliveira V.H.;Souza, T.M.L

A-29 **Diterpenes from *Dictyota* inhibit erythrocytes PMCA**
Carvalho, A.P.; Costa, E. S.; Teixeira, V.L.; Pereira, R.C.; Frugulhetti, I.C.P.P.; Abrantes, J.L.; Cavalcanti, D.; Barbosa, J.P.; Soares, A.; Fontes, C.F. L.; Mignaco, J.A.; Oliveira V.H.;Souza, T.M.L.

A-30 **ALTERNATIVE OXIDASE PATHWAY FROM ROOTS OF *Vigna unguiculata* (L.) Walp CULTIVARS UNDER OSMOTIC STRESS**
Costa, J. H., Jolivet, Y., Hasenfratz-Sauder, M-P., Silva Lima, M. G., Dizengremel, P. and Fernandes de Melo, D.

A-31 **Effects of oxidative stress on Chloroplast Coupling Factor 1 (CF_1) and Chloroplast ATP-Synthase (CF_0F_1)**
Ribeiro, A.S., Souza, M.O., Scofano, H.M. and Mignaco, J.A.

A-32 **Rat brain Ca^{2+}-ATPases susceptibility to oxidative damage: protection by trifluoperazine.**
Souza-Santos, P; Costa, D. C. F.; Scofano, H. M.; Carvalho-Alves, P. C.

A-33 **Uncoupling of Ca^{2+}-ATPase from Marlin Heater Organ and Tuna Deep Red Muscle by Temperature**
Ana Maria Landeira-Fernandez and Barbara Block

A-34 **Mitochondrial functional changes in immune cells during inflammation**
Joana d'Avila; Fernando A. Bozza; Aurelio Graça-Souza; Marcelo T. Bozza; Antonio Galina; Marcus F. Oliveira

A-35 **Aging enhances the mitochondrial oxidative stress in atherosclerosis-prone, hypercholesterolemic LDL receptor knockout mice**
Bruno A. Paim; Luciane C. Alberici; Giovanna R. Degasperi; Gabriel de G. Dorighello; Renata R. de Souza;Priscila S. Barcellos; Helena C.F. Oliveira; and Anibal E.Vercesi

A-36 **The effect of aluminum on calcium transport in fission yeast**
Lobão, F.A.; Rangel, L.C.; Silva, J.F.; Okorokova-Façanha, A.L.

A-37 **Mitochondrial ATP-Sensitive K^+ Channels Prevent Oxidative Stress, Permeability Transition and Cell Death**
J. G. de Paula, H.T.F. Facundo and A. J. Kowaltowski

A-38 **Hypertriglyceridemia in transgenic mice is associated with significant increase in CO_2 production and body temperature**
Luciane C. Alberici, Karina G. Zecchin, Helena C. F. Oliveira, Anibal E. Vercesi.

Título dos Resumos

A-39 **Gamma Subunit Interactions With Na,K-ATPase and Other P-type ATPases**
V.F. Cortes; H. Barrabin; M. Alves-Ferreira; C.F.L. Fontes

A-40 **VACUOLAR PROTON PUMPS ACTIVITY IN *Vigna unguiculata* (L.) WALP IN RESPONSE TO SALT STRESS**
Sousa, F. Y. M.; Sobreira, A. C. M.; Oliveira, L. M. N.; Guimarães, F. V. A.; Costa, J. H. and Fernandes de Melo, D.

A-41 **The Role of Protein Kinase A Phosphorylation Sites for the Activity of the Copper ATPase from Yeast (Ccc2)**
R.H.F.Valverde; M. Einicker-Lamas; J. Lowe; I. Morin; M.G.L. Ribeiro; E. Mintz; F. Guillain; A. Vieyra and M. Cuillel

A-42 **Effects of Sydnone SYD-1 on Energy-Linked Functions of Rat Liver Mitochondria**
Halila, G.C.; Echevarria, A.; Belém, A.C.; Rocha, M.E.M.; Carnieri, E.G.S.; Martinez, G.R.; Noleto, G.R.; Oliveira, M.B.M.; Cadena, S.M.S.C.

A-43 **Temperature dependence on Ca^{2+} affinity catalysed by SERCA pump from skeletal muscle: comparison between an endothermic and ectothermic animal**
Anamaria Pantoja Massunaga; Ana Maria Landeira Fernandez; Leopoldo de Méis

A-44 **The Proton Effect in Human Hemoglobin According to the Two-State Model**
Jose Ailton Conceicao Bispo, Gustavo Fraga Landini, Douglas Ricardo Norberto and Carlos Francisco Sampaio Bonafe

A-45 **THE EFFECT OF SALT STRESS ON THE ATPASE ACTIVITY AND NA^+ ACCUMULATION IN VACUOLAR VESICLES FROM *Vigna unguiculata* (L.) WALP**
Oliveira, L.M.N.; Sobreira, A.C.M.; Sousa, F.Y.M.; Soares, A.A.; Fernandes de Melo, D.

A-46 **Further analyses of V H+-ATPases of the yeast ER, Golgi and vacuoles.**
Samarão, S.S., Teodoro, C.E.S., Bernardes, N.R.; Granato, T.M., Okorokova-Façanha, A.L., Retamal, C. and Okorokov, L.A.

A-47 **Effects of Eupafolin, a natural flavone, on Properties of the Mitochondrial Membrane and Electron Transport in the Respiratory Chain.**
Herrerias, T; Oliveira, M.B.M; Cadena, S.M.S.C; Carnieri, E.G.S.; Oliveira, B.H.; Noleto, G.R.; Martinez, G.R. Gomes, M.A.B.; Rocha, M.E.M.

A-48 **Improved Method for Isolation of Coupled Mitochondria of *Araucaria angustifolia* (Bert.) O. Kuntze**
Mariano, A.B.; Valente, C.; Kovalhuk, L.; Maurer-Menestrina, J.; Pereira-Netto, A.B.; Guerra, M.P.; Carnieri, E.G.S.

A-49 **THE VACUOLAR PROTON PUMPS ACTIVITIES FROM *Vigna unguiculata* (L.) WALP IN RESPONSE TO SALT AND OSMOTIC STRESS**
Sobreira, A.C.M.; Oliveira, L.M.N.; Garantizado, F.E.A.; Otoch, M.L.O.; Fernandes de Melo, D.

A-50 **MITOCHONDRIAL TRANSMEMBRANE POTENCIAL AND REACTIVE OXYGEN SPECIES GENERATION IN PERIPHERAL BLOOD MONOCYTES AND LYMPHOCYTES OF HYPERCHOLESTEROLEMIC PATIENTS**
ALBUQUERQUE, E.M.V; DEGASPERI, G.R.; VERCESI, A. E; de FARIA, E.C.; OLIVEIRA, H.C.F; CASTILHO, L. N.

Biologia Molecular dos Eucariotos Superiores

B-1 **CHARACTERIZATION OF MOLECULAR MARKERS FOR PROSTATE CANCER FROM DIFFERENTIALLY EXPRESSED PROTEINS**
Pontes ER, Matos LC, da Silva EA, Xavier LS, Diaz BL, Small, IA, Reis EM, Verjovski-Almeida S, Barcinski MA, Gimba ERP.

B-2 **A new perspective for gene therapy in glaucoma: modulation of the transcription factor Max in retinal ganglion cells**
H. Petrs-Silva; V. Chiodo; W. Hauswirth; L.B. Chiarini and R. Linden

B-3 **Characterization of a protein disulfide isomerase (PDI), the most expressed cellular transcript from *Bothrops insularis* snake**
Junqueira-de-Azevedo, I.L.M.; Santos, C.X.C.; Alves,L.P.; Amanso, A.M.; Laurindo, F.R.M.; Ho, P.L.

B-4 **Metalloproteinase 2 Expression During Cellular Response to the Xenograft of Cancellous Bovine Bone.**
Accorsi-Mendonça T.; Zambuzzi W.F.; Paiva K.B.S.; Demarchi A.C.C.O.; Cestari T.M.; Taga R.; Lauris J. R. P. and Granjeiro J.M.

B-5 **IDENTIFICATION OF DIFFERENTIALLY EXPRESSED GENES IN ASTROCYTOMAS**
Bulgarelli, A.; Seixas, A.Q.A., Felix, R.S., Silva, W.A. Jr, Marie, S.K., Zago, M.A., Caballero, O.L., Vettore, A.L.

B-6 **CUG-BP and 3' UTR Sequences Influence PARN-Mediated Deadenylation in Mammalian Cells**
Moraes, K.C.M., Wilusz, C.J. and Wilusz, J.

B-7 **Molecular Characterization of FBX025, a Novel SCF Ubiquitina Ligase That Is Specifically Expressed in the Brain**
Ana Leticia G. C. Maragno and Marcelo D. Gomes

B-8 **Neuro-specific regulation of the NUDEL-oligopeptidase gene**
Guerreiro, J.R.; Winnischofer, S.M.B.; Bastos, M.; Sogayar, M.C.; Camargo, A.C.M. and Hayashi, M.A.F.

B-9 **Analysis of RIC-8B protein expression**
Kerr, D.S.; Mercadante, A.F.; Von Dannecker, L.E.C.; Malnic, B.

B-10 **Molecular Characterization of Chemo Sensitive and Chemo Resistant Wilms' Tumor Blastemal Type Using SAGE Libraries**
Piccoli, F.S.; de Camargo, B.; Kagohara, L.T.; Okuda, E.A.; Caballero, O.L.S.D.; Soares, F.A.; Sredni, S.T.; Silva, W.A.Jr.; dos Santos, A.R.D.; Zanette, D.L.; Brentani, H.; Camargo, L.P.[5]; Vettore, A.L.

B-11 **The preliminary analysis of an expressed sequence tags (ESTs) rndatabase generated from Duvernoy's gland of *Philodryas olfersii*, a *Colubridae* snake**
Ching, A.T.C.; Rocha, M.M.T.; Furtado, M. F. D.;Ho, P. L.; Junqueira-de-Azevedo, I.L.M.

B-12 **Analysis of the methylation status of the promoter regions of the ADAMs 12 and 33 genes in breast cancer.**
D.F. Ierardi; F.F. Costa; A.C.M. Salim; G. Klassen; I. Werneck; K.B. Ribeiro; F. Soares and A.A. Camargo

B-13 **Equilíbrio Mutant Mice: Phenotypic, Characterization and Localization of Mutated Gene to Chromossome 17.**
Ariza, C. B.; Araujo, A.P.B.; Valero, V. B.; Massironi, S. M.G.; Porcionatto, M. A.

2-Resumos.pmd 38 6/6/2005, 12:38

B-14 **Identification of Intronic Non-Coding RNAs Regulated by Androgen in a Prostate Cancer Cell Line Using Intronic cDNA-Microarrays**
Nakaya, H.I.; Louro, R.; Festa, F.; Amaral, P.P.; El Jundi, T.A.; Sogayar, M.C.; da Silva, A.M.; Reis, E.M.; Verjovski-Almeida, S.

B-15 **A new strategy for searching regulatory sequences in mouse OR genes.**
Michaloski, J.; Galante, P.A.F.; Malnic, B.

B-16 **Ric-8B, an Olfactory Putative GTP Exchange Factor, Amplifies Signal Transduction through the Olfactory-Specific G-protein Gα−olf**
Von Dannecker, L.E.C; Mercadante, A.F.; Malnic,B.

B-17 **Expression of OR M93 in yeast**
G.L.S. Meira, B. Malnic

B-18 **Identification of genes silenced by methylation in breast tumor cell lines through treatment with demethylating agent and construction of cDNA subtracted libraries**
M.V. Geraldo; P. Peitl; R.B. Parmigiani; R.P. Moura; D.G. Pinheiro; W.A. Silva and A.A. Camargo

B-19 **Anti-apoptotic effect of r-Lopap on HUVECs and fibroblasts; expression of genes involved in anti-apoptotic, coagulation and fibronolysis mechanisms.**
Pereira, A.L.M; Faria, F.; Fritzen, M; Maria, D.A.; Junqueira,C. R.; Chudzinski-Tavassi, A.M.

B-20 **Indirect measurement of differential gene expression using an oligonucleotide reference**
Egidio, C.; Vêncio, R.Z.N.; Mota-Vieira, L.; Verjovski-Almeida, S.; Peixoto, B.R.; Reis, E.M.

B-21 **IDENTIFYING DIFFERENCES IN mRNA EXPRESSION DUE TO MUTATION IN *FANCC* GENE**
Mencalha, A.L., Carvalho, E., Salles, D., Silva Neto, M.A. and Cabral-Neto, J.B. mencalha@biof.ufrj.br

B-22 **Deleterius Effects of Brown Spider Venom on Subendothelial Cells**
Wille, A.C.M.; Paludo, K.S.; Gremski, L.H.; Kowatzki, J.; Moreira, D.C.; Franco, C.R.C.; Veiga, S.S.

B-23 **Linear Amplification of RNA Isolated from Clinical Tissue Samples for Microarray Assays**
Fachel, A.A.; Campos, F.S.; Barcinski, M.A.; Reis, E.M.R.; Verjovski-Almeida, S.

B-24 **PROTEOMIC ANALYSIS OF THE ANTI-TUMOR ACTIVITY OF GLUCOCORTICOIDS**
Demasi, MAA; Montor, WR; Pimenta, DC; Ferreira, GB; Labriola, L; Camargo, ACM and Sogayar, MC

B-25 **INVOLVEMENT OF THE *RECK* GENE IN CELL CYCLE AND TUMORAL PROGRESSION: INVERSE CORRELATION WITH c-MYC EXPRESSION**
Winnischofer SMB; Figueira RCS; Oba-Shinjo SM; Sasahara RM; Lima MT; Vedoy CG; Mendonça Z; Marie SKN and Sogayar MC.

B-26 **Differencial Proteomic Screen Between Two Isogenic Wild-type and *FANCC* Cell Lines**
Salles D.; Mencalha A.L.; Silva Neto M.A.; Cabral-Neto J.B

B-27 **CHARACTERIZATION OF INTRONIC NON-CODING TRANSCRIPTS REGULATED BY ANDROGEN IN A PROSTATE CANCER CELL LINE BY STRAND-SPECIFIC REAL-TIME PCR**
Louro, R.; Nakaya, H.I.; Amaral, P.P.; Festa, F.; Sogayar, M.C.; da Silva, A.M.; Reis, E.M.; Verjovski-Almeida, S.

B-28 **In silico and molecular identification of SUMO E3 ligases and SUMO specific protease in Schistosoma mansoni.**
Cabral, F.J.; Guerra-Sá, R.; Brigato, O.M.; Macedo, E.A.; Rodrigues, V

B-29 **A preliminary transcriptome map of astrocytomas**
A. Fujita, J.R. Sato, F. Festa, S.M.B. Winnischofer, S.M.O. Shinjo, S.K.N. Marie, C.E. Ferreira and M.C. Sogayar

B-30 **Screening Expression Libraries with Antibodies at High Versus Low Plating Bacteriophage: Does it Really Matter?**
Maia, R.A.; Martins, A.R.

B-31 **Analysis of Eukaryotic Translation Initiation Factor 5A (eIF5A) in Different Stages of Murine Embryogenesis**
Lucas T. Parreiras-e-Silva}, Eduardo B. Oliveira, Claudio M. Costa-Neto

B-32 **MATRIX METALLOPROTEINASES AND THEIR INHIBITORS IN HUMAN BREAST CANCER INVASION AND METASTASIS**
RCS Figueira; SMB Winnischofer; MT Lima and MC Sogayar

B-33 ***IN VITRO* DIFFERENTIATION OF MESENCHYMAL STEM CELLS FOR CELL-BASED THERAPIES**
Fernando Henrique Lojudice and Mari Cleide Sogayar

B-34 **The Effect of Brown Spider Venom on Endothelial Cell Morphology and Adhesive Structures**
Paludo, K.S.; Gremski, L.H.; Wille, A.C.M.; Silva, D.T.; Giacomel, L.D.; Franco, C.R.C.; Veiga, S.S.

B-35 **Analysis of phosphorylated myosin Va during the phases of the cell division and of the tumor progression.**
Ishikawa, H.C.F, Baqui, M.M.A, Pranchevicius, M.C.S, Espreafico, E.M and Larson, R.E.

B-36 **Molecular Events in Breast Cancer Progression Through Microarray Technology**
Castro, N.P.; Kaiano, J.; Patrão, D.F.; Bastos, E.P.; Rangel, M.C.R.; Camargo, L.P.; Camargo, A.A.; Brentani, H.P.; Carraro, D.M.

B-37 **Correlation between matrix metalloproteinase-1 (MMP-1) promoter polymorphism and gene expression in carcinoma cells lines.**
Piccoli,F.M.;Coutinho,E.L.;Schor,N.[1];Bellini,M.H.

B-38 **A full-length set of ORFs from *Bothrops insularis* transcriptome rnand a comparative view of Viperidae envenoming through major toxin profile**
Leão, L.I.; Junqueira-de-Azevedo, I.L.M; Ho, P.L.

B-39 **Retrovirus vector-mediated expression of Endostatin by stably transduced fibroblasts**
Coutinho, L. E.;Tornieri, H. P.; Morganti, L.E.; Schor N.; Bellini, M. H.

B-40 **Molecular Characterization of Intronic Transcripts Regulated by Androgen in Prostate Cancer Cell Line**
Silva, J.C.; Maracajá-Coutinho, V.; Nakaya, H.I.; Louro, R.; Amaral, P.P.; Reis, E.M.; Verjovski-Almeida, S.

Título dos Resumos

B-41 **THE ROLE OF p53-REGULATED PHOSPHATASE (PPM1D) IN PROSTATIC CELL LINES**
Festa F, Gomes LR, Reis EM, Verjovski-Almeida S, Sogayar MC

B-42 **PROTEOMIC APPROACH TO SEARCH FOR PROTEINS INVOLVED IN THE MITOGENIC EFFECT OF RECOMBINANT HUMAN PROLACTIN IN PRIMARY CULTURES OF HUMAN PANCREATIC ISLETS.**
L Labriola, GB Ferreira, WR Montor, MAA Demasi, DC Pimenta; ACM Camargo, FHLojudice,PBSantos, T Genzini, AC Goldberg, FG Eliaschewitz and MC Sogayar

B-43 **CLONING AND EXPRESSION OF THE PAX4 GENE (PAIRED BOX GENE 4) ASSOCIATED WITH PANCREATIC BETA CELLS DIFFERENTIATION.**
Gabanyi, I, Lojudice, FH and Sogayar, MC

B-44 **Determination of the genome size, complexity and structure in the nematode *Oscheius tipulae***
Ahn, I.-Y.; Winter, C.E.

B-45 ***Amblyomma cajennense*: The tick transcriptome, expression and characterization of a new recombinant inhibitor**
Batista, IFC, Junqueira-de-Azevedo, ILM, Faria F, Simons, SM, Maria DA, Ho PL and Chudzinski-Tavassi, AM

B-46 **Detection of the 24 bp duplication in the chitotriosidase gene: allele frequency determination in the Brazilian population.**
Bock, H.; Michelin, K.; Wajner, A.; Giugliani, R.; Pires, R.F.; Coelho, J.C.; Pereira, M.L.S.

B-47 **Cloning of a Histone Methyltransferase PRMT1 Homologue from *Schistosoma mansoni*: Evidence for Roles in Nuclear Receptor Signaling and RNA Metabolism**
J.J. Mansure, D.R. Furtado, F.M.B. de Oliveira, F.D., Rumjanek, G.R. Franco and M.R. Fantappié

B-48 **Proteomic Analyses of Hematopoietic Stem Cells of Chronic Myeloid Leukemia Patients**
Pizzatti, L.B.; Sá, L.A.; Sondermamm, C.F.; Adbelhay, E.; Bisch, P.M.

B-49 **Identification and molecular cloning of toxins of the spider *Lasiodora sp.***
Dutra, A.A.; Vieira, A.L.G.; Figueiredo, M.; Sousa. L.O.; Kalapothakis, E. and Castro, I.M.

B-50 **Involvement of Calcium-Activated Potassium Channels in the Action of T_4 in Sertoli Cells of Immature Rat Testes**
Royer, C.; Menegaz, D.; Frare.J.T.; Leite, L.D.; Barreto, K.P.; Silva, F.R.M.B.

B-51 **Mapping of intrinsic bent DNA sites in *AMPD2* gene amplified region**
Balani, VA.; Takeda, KI.; Fiorini, A.; Fernandez, MA.

B-52 **Contribution of orphan nuclear receptors SF-1 and DAX-1 to basal and hormone-mediated expression of human *CYP*17**
Barbosa AS; Lin CJ

B-53 **Characterization of the human Mov34 protein**
Alves, B. S. C., Gozzo, F. C. and Zanchin, N. I. T.

B-54 **Expression and characterization of the human protein ISG95: arnprobable RNA-methyltransferase and RNA-guanylyltransferase thatrnresponds to interferon and viral infection**
Vaz, T. H. and Zanchin, N. I. T.

B-55 **NUDEL-oligopeptidase activity in the cytosol of rat brain: biochemical and immunological analysis**
Bastos MF.; Portaro FCV; Gorrão SS; Tambourgi D.V.; Sant'anna O.; Hayashi MAF; Camargo ACM.

B-56 **FISH Localization of BAC Clone AL619337 in the Metaphase Chromosomes of *Schistosoma mansoni***
Jeremias WJ, Cunha JC, Valentim CL, Guerra-Sá R, Babá EH.

B-57 **KPC-1, a Proprotein Convertase from *Caenorhabditis elegans*, and its Probable Role in Vitellogenesis**
Andreoni, J. M.; Winter, C. E.

B-58 **PHYLOGENETIC RELATIONSHIP OF ENDOGENOUS α–PLA2 INHIBITORS FROM THE PLASMA OF SNAKES**
Estevão-Costa, M.I; Maciel, R; Velarde, D.T; Franco, G.R; Fortes-Dias, C.L.

B-59 **CHARACTERIZATION OF SCHISTOSOMA MANSONI RHO1 BY FUNCTIONAL COMPLEMENTATION OF SACCHAROMYCES CEREVISIAE, IN THE PRESENCE OF A PKC INHIBITOR**
Lobo FP; Machado CR; Franco GR

B-60 **Molecular analysis of entomopathogenic nematode isolates and their symbiotic bacteria from Monte Negro – RO, Brazil**
Kamitani F. L.; Dolinski, C.; Winter, C. E.

B-61 **Unusual nucleolar localization of trimethylated histone H3 in *Trypanosoma cruzi***
Fernando de M. Dossin, Julia Pinheiro Chagas da Cunha and Sergio Schenkman

B-62 **CHARACTERIZATION OF *RECK* TRANSCRIPTIONAL REPRESSION BY c-*Myc* ONCOGENE**
MT Lima; SMB Winnischofer; RCS Figueira and MC Sogayar

Bioquímica dos Estados Patológicos

C-1 **Further studies on the effect of high-dose riboflavin and elimination of dietary red meat on sporadic Parkinson's disease**
CG Coimbra; AC Lopes; R Sinigaglia-Coimbra; VBC Junqueira

C-2 **Diagnosis of patients with Glycogenosis II (Pompe Disease)**
Oliveira, M.L.C.; Costa, M.A.; Leal, V.F.; Bernstein, A.

C-3 **Secretion of CCL22 / Macrophage-derived Chemokine (MDC) via RANKL-induced Osteoclast Differentiation Potentially Promotes Bone Metastasis of Lung Cancer**
Nakamura, E.S.; Kobayashi, M.; Koizumi, K.; Saiki, I.

C-4 **Verapamil-sensitive increase in intracellular Ca^{2+} stimulates oxidative phosphorylation and reactive oxygen species production during spleen lymphocyte activation in Walker 256 tumor bearing rats**
Degasperi, G.R.; Velho, J.A.; Zecchin, K.G.; Souza, C.T.; Velloso, L.A.; Borecký, J.; Castilho, R.F.; and Vercesi, A.E.

C-5 **Analysis of Organic Acids by GC/MS in Patients with Suspicion of Inborn Errors of Metabolism**
Allegri, G.M; Oliveira, M.L.C; Bezerra Netto, H.J.C; Aquino Neto, F.R; Cruz, W.M.S; Fernandes, M.J.; Oliveira, C.P.H.

C-6 **Increased Expression of TF and PAR-1 in esophageal cancer patients**
Ribeiro, F.S.; Simão, T.A.; Ribeiro-Pinto, L.F.; Albano, R.M. and Monteiro, R.Q.

C-7 **PROTEOMIC COMPARATIVE ANALYSIS BETWEEN RESTING AND ACTIVATED NEUTROPHILS**
Teles, L.M.B.; Ricart, C.A.O.; Sousa, M.V.; Castro, M.S.; Fontes, B.; Fontes, W.

C-8 **α-galactosidase: diagnosis of Fabry disease in dried bloodspots on filter paper**
Galdieri LC., Rodrigues MB, Secches T, Martins AM, D\'Almeida V

C-9 **Heme, a proinflammatory molecule, delays human neutrophils apoptosis preserving mitochondria stability through the differential expression of Bcl-2 family proteins.**
M. A. Arruda; P. Barcellos-de-Souza; A. G. Rossi; M. S. de Freitas; P. L. Oliveira; A. V. Graça-Souza; C. Barja-Fidalgo.

C-10 **SCREENING FOR COMMON MUTATIONS IN PATIENTS WITH MUCOPOLYSACCHARIDOSIS TYPE I**
Pereira VG, Rodrigues MB, Kyosen SO, Martins AM, D'Almeida V

C-11 **Apolipoprotein CIII Overexpression Increases Diet Induced Visceral Adiposity In Transgenic Mice**
Salerno, A.G.; Silva T.R.; Dorighello G.G.; Oliveira H.C.F.

C-12 **Lectin Recognition of Plasma Glycoproteins from Patients with Schistosomiasis Mansoni**
Fernandes, M. P.; Silva, C. A.; De Melo, R. R.; Silva, M. B. R.; Coriolano, M. C.; Brandt, C. T.; Correia, M. T. S.; Lima, V. L. M.; Paiva, P. M. G. & Coelho, L. C. B. B.

C-13 **Analysis of the Expression of the Metalloproteinases -2 and -9 and CD-68 in the Larynx of Passive Smoking Rats**
Zambuzzi WF, Lima JP, Duarte JL, Assis GF, Granjeiro JM.

C-14 **Human albumin infusion significantly improved the recovery of patients with severe leptospiral infection.**
Santos, M.C.B., Gonçalves, C.F., Gomes-Garcia, D., Rocha, E.K.,Younes-Ibrahim, M., Castro Faria, M.V. and Burth, P.

C-15 **Serum free fatty acids (FFA) and serum protection factor (SPF) in mice receiving intravenous or intratracheal injections of oleic acid**
Gonçalves, CF; Santos, MCB; Gomes-Garcia, D.; Rocha, EK; Bozza, PT; Castro Faria Neto, HC; Castro Faria, MV; Burth, P

C-16 **The Reduced Plasma Cholesteryl Esther Transfer Protein (CETP) Activity Diminishes Postprandial Plasma Triglyceride Acquisition Rate But Increases Free Fatty Acids Acquisition Rate.**
Arahata, D; Schreiber, R.; Pereira, A.; Oliveira, H.C.F.; de Faria, E.C.

C-17 **BEHAVIORAL STUDIES ON MECP2-SILENCED MICE BY RNA INTERFERENCE**
Campos-Pereira,T.;Pascoal, V.D.B.; Maia, I.G.; Grippo, M; Gilioli, R.; Lopes-Cendes, I.

C-18 **USE OF PEROXIDASE CONJUGATED MOLECULAR FORMS FROM *Cratylia mollis* SEED LECTIN (Cramoll 1 AND Cramoll 1,4) AND FITC CONJUGATED LECTINS TO CHARACTERIZE HUMAN NERVOUS CELLS**
Mattos, T. G.; Mello, R. J. V.; Valença, M. M.; Beltrão, E. I. C.; Paiva, P. M. G.; Coelho, L. C. B. B.

C-19 **DETECTION OF MITOCHONDRIAL FATTY ACIDS OXIDATION DEFECTS USING A GAS CHROMATOGRAPHY METHOD**
A. Sitta; A. G. Barschak; G. C. Ferreira; M. Deon; A. Haeser; D. M. Coelho; R. Giugliani; M. Wajner; C. R. Vargas

C-20 **Increased cardiac glycogen content and alterations in blood TGO and TGP in a rat model of diabetes induced by alloxan.**
G.A. Behr, E.G. Silva, F. Dal-Pizzol, J.C.F. Moreira

C-21 **Frutalin and 373E1: Tumoral markers based on altered carbohydrate detection**
Milhome, M. V. L.; Sousa, J. C.; Ferreira, F. V. A.; Schmitt, F. C.; Moreira, R. A.

C-22 **LDL Receptor Defective Mice Present Elevated Liver Lipogenesis And Perigonadal Adipose Tissue Mass.**
Dorighello, G.G.; Salerno, A.G.; Vercesi, A.E.; Oliveira, H.C.F.

C-23 **Rat C6 Glioma Cells Express Tissue Factor and Strongly Assemble Blood Procoagulant Complexes**
Fernandes, R. S.; Kirszberg, C.; Rumjanek, V.M.; Monteiro R.Q.

C-24 **MICROVASCULAR ALTERATIONS IN MUCOSA OF LARGE INTESTINE DUE TO HEPATOSPLENIC SCHISTOSOMIASIS: A LECTIN HISTOCHEMISTRY STUDY**
Cláudio Whitaker, Carmelita L. B. Cavalcanti, Luiz B. Carvalho-Junior, Maria do Socorro M. Cavalcanti, Eduardo I. C. Beltrão

C-25 **SPREADING DEPRESSION IN RATS: A LECTIN HISTOCHEMISTRY INVESTIGATION**
Moura, R.B.; Melo, F.R.M.; Guedes, R.A.; Guedes, R.C.A.;Bezerra, R.S.; Beltrão, E.I.C.

C-26 **Heme as a pro-inflammatory stimuli inducing lipid body formation in macrophage.**
Xavier, L.S., Alves, L.R., Castro-Faria-Neto, H.C., Bozza, P.T., Maya-Monteiro, C.M., Oliveira, P.L.

C-27 **CHEMILUMINESCENT LECTIN HISTOCHEMISTRY IN MAMMARY AND BRAIN DIAGNOSIS**
Bruno E. F. Cabral; Lilia M. Campos; Jose L. Lima-Filho; Luiz B. Carvalho-Júnior; Eduardo I. C. Beltrão

C-28 **APOLIPOPROTEIN E POLYMORPHISM IS ASSOCIATED TO ALTERED TRIGLYCERIDE LEVELS BUT NOT TO ANTHROPOMETRICAL PATTERNS NOR DEATH RATES IN ELDERLY FROM PERNAMBUCO, BRAZIL**
Barbosa, R. J. V.; Santos, B. S. dos; Silva, C. A.; Dellalibera, E.; Owen, J. S.; Lima, V. L. M.

C-29 **Characterization of native and oxidized human low-density lipoproteins using a non-linear optical technique**
P. Boschcov; S.L. Gómez; R.F. Turchiello; M.C. Jurado; M. Gidlund and A.M. Figueiredo Neto

C-30 **Plasma phospholipids from caprine infected by lentivirus Caprine Arthritis Encephalitis Virus**
Vasconcelos, A. S.; Callado, A. K. C.; Castro, R. S. and Lima, V. L. M.

C-31 **SIALOCHEMICAL ANALYSIS AND SALIVARY PROTEIN PROFILE OF PATIENTS WITH BURNING MOUTH SYNDROME.**
Moura, S.A.B.; Silva, F,V.; Lima, D.F.; Sousa, J.M.A. and Negreiros, A.N.M.

C-32 **Determination of trans fatty acid in adipose tissue of obese individuals**
J.W. Bortolotto; C. Reis; A.C.B. Ferreira; S. Costa; C.C. Mottin; A. Padoin; A.A. Souto; R.M. Guaragna

2-Resumos.pmd 41 6/6/2005, 12:38

C-33 **Hyaluronan Content in Pleural Effusions from Tuberculosis and Lung Cancer**
Albuquerque, E.M.M.; Cruz, A.K.M.; Santos, V.O.; Santos, E.A.; Souza, L.M.; Vivacqua, C.A.; Mendes, A.; Nader, H.B.; Albuquerque, P.R.; Oliveira, F.W.

C-34 **Biochemical properties of β-glucosidase in leukocytes from patients and obligated heterozygotes for Gaucher Disease who are carriers of identified mutatio**
Janice C. Coelho; Kristiane Michelin; Alessandro Wajner; Hugo Bock; Ângela Fachel; Roberto Rosenberg; Ricardo Pires; Maria Luiza Pereira; Roberto Giugliani

C-35 **ADAM23 protein as a potential metastasis molecular marker in breast carcinoma by immunohystochemistry**
G. Klassen; L. S. Nakao; S. M. Zanata; D. Ierardi; N. Verbisck; F. P. Cavalher; F.F. Costa; and A. A. Camargo

C-36 **Effect of chitosan iron (III) soluble in biological parameters in rats: chronic study**
D. Valcarenghi; S. Franciscato; C. Bürger; C.A. Rodrigues

C-37 **Effect of surgical or clinical treatment on plasma cholesterol and rntriglyceride levels in Schistosomiasis mansoni patients**
A. S. Vasconcelos; C. A. Silva; J. P. Oliveira; C. T. Brandt; V. L. M. Lima

C-38 **ON THE MECHANISMS OF OXIDATIVE STRESS INDUCED WALKER 256 TUMOR CELL DEATH.**
Zecchin, K.G.; Seidinger, A.L.O.; Degasperi, G.R.; Pacífico, D.S.; Castilho, R.F.; Vercesi, A.E.

C-39 **Changes in adenine nucleotide hydrolysis by platelets and serum from rats submitted to Walker 256 tumor**
Buffon, A.; Ribeiro, V.B.; Schianoski, A.S.; Sarkis, J.J.F.

C-40 **PROTEOMIC MAP OF NEUTROPHILS IN TRAUMA PATIENTS**
Teles, L.M.B.; Castro, M.S.; Fontes, B.; Honorato, C.T.M.; Lapouble, O. M.M.; Silva, A.C.; Passos, P.I.B.; Fontes,W.

C-41 **Acute Effect of Kaempferol-3-O-α-L-ramnopiranosil β-D-glycopyranoside-VO(IV) Complex and Vanadium (IV) on the Glycemia in Diabetic Rats**
Cazarolli, L.H.; Pizzolatti, M.G.; Szpoganics, B.; Silva, F.R.M.B.

C-42 **Chitotriosidase enzyme : study of biochemichal parameters in normal individuals and patients with Niemann-Pick disease**
Wajner A; Michelin K; Burin MG; Pires RF; Pereira ML; Giugliani R and Coelho JC.

C-43 **Effect of diphenyl diselenide treatment on hyperglycemia and glycated proteins levels in diabetic rats**
Barbosa, N.V.; Jacques, N.O.; Wondracek, D.C.; Miotto, B.; Nogueira, C.W.; Zeni, G.; Rocha, J.B.T.

C-44 **DNA and Protein Adducts Induced by Tetrahydrofuran**
Hermida, S.A.S.; Possari, E.P.M.; Souza, D.B.; Terada, R.; Gomes, O.F.; Campos, I.P.d.A.; Di Mascio, P.; Medeiros, M.H.G.; Loureiro, A.P.M.

C-45 **The possible role of the hsp65 of *Mycobacterium leprae* in the experimental acute uveitis [EAU] and systemic lupus erythematosus [SLE] autoimmune diseases**
E.B.Marengo, F.C.V.Portaro, A.G. Commodaro, L.V. Moraes, L.V. Carvalho, C. Parada, B.L. Fernandes, A.C.M. Camargo, L.V. Rizzo, O.A. Sant,Anna

C-46 **Analysis of mRNA and some Cellular Proteins of Fibroblasts Cultures from Hereditary Gingival Fibromatosis and Normal Gingival before and after Treatment with Cyclosporin A.**
Dreyfuss, J.L; Veiga, S.S. Santos, I.A.N.; Coletta, R.D.; Nascimento, F.D.; Tersariol, I.L.; Nader, H.B.; Dietrich, C.P.

C-47 **Brown spider dermonecrotic toxin directly induces nephrotoxicity**
O.M. Chaim, Y.B. Sade, R. B. da Silveira, M.A. Appel, O.C. Mangili, W. Gremski and S.S. Veiga

C-48 **CHRONIC ADMINISTRATION OF CYSTINE REDUCES PYRUVATE KINASE ACTIVITY IN RAT HEART**
Dornelles, P. K. B.; Feksa, L. R.; Rech, V. C.; Rodrigues-Junior, V. S.; Athaydes, G. A.; Wyse, A. T. S.; Dutra-Filho, C. S.; Wajner, M.; Wannmacher, C. M. D.

C-49 **Expression of tissue factor in human monocytes infected by Dengue 2 virus-A possible role in Dengue hemorrhagic fever?**
Neves-Souza, P.C.N.; Kubelka, C.; Monteiro, R.Q.

C-50 **Postprandial Effects of a Standardized Fat Meal on Plasma LDL Oxidation *in Vivo*.**
Schreiber, R; Gidlund, M.; Arahata, D.; Tentor, J.; Castilho L.N.; de Faria, E.C.

C-51 **Heparanase Can Be Used as a Marker for Colorectal Cancer**
Peretti, T.; Matos, L.L; Marolla, A.P; Ricci, R; Mader, A.M.A.A; Nader, H.B.; Waisberg, J.; Dietrich, C.P; Pinhal, M.A.S.

C-52 **TUMOURS OF HUMAN SALIVARY GLANDS: CARBOHYDRATE PROFILE DIFFERENCES USING LECTIN HISTOCHEMISTRY**
Rêgo,M.J.B.M.; Santos,L.X.; Carvalho Jr, L.B.; Sobral, A.P.; Beltrão, E.I.C.

C-53 **RECOGNITION OF CARBOHYDRATES OF GASTROINTESTINAL CELLS USING LECTIN HISTOCHEMISTRY IN RATS SUBMITED TO ETHANOL STRESS AND TREATED WITH CAROTENOIDS**
Nogueira, E.V.M.; Neri, D.F.M.; Melo, F.R.M.; Guedes, R.A.; Teles, N.; Guedes, R.C.A.; Bezerra, R.S.; Beltrão, E.I.C.

C-54 **The pathogenic fungus *Sporothrix schenkii* induces tyrosine phosphorilation in infected human endothelial cells in vitro**
Deccache P.M.S.; Figueiredo, C. C.; De Freitas, M.S.; Lopes-Bezerra, L.M.; Morandi, V.

C-55 **EXPRESSION AND MOLECULAR ANALYSIS OF HUMAN ATAXIN-7**
Gasparotto-Contessotto, M.G.; Garcia, M.C.C; Santos, K.P.M; Lopes-Cendes, I.

Bioquímica e Biologia Molecular de Insetos

D-1 **Expressed sequence tags of *Lonomia obliqua* bristles**
Reis, C.V., Faria F., Carrijo-Carvalho L.C., Ricci da Silva M.E. Junqueira-de-Azevedo ILM., Ho PL., Chudzinski-Tavassi A.M.

D-2 **A STUDY ON LIPASE ACTIVITY TRANSLOCATION IN THE FAT BODY OF *RHODNIUS PROLIXUS* USING A WESTERN BLOT ANALYSIS.**
Pontes, E.G.; Carvalho, P.P.; Gondim, K.C.

D-3 **Molecular Basis of the *Bacillus sphaericus* Resistance in *Culex quinquefasciatus* (Diptera: Culicidae)**
Romão, T.P.A.; Chalegre, K.D.M.; Key, S.G.; Ayres, C.F.J.; Oliveira, C.M.F.; de Melo-Neto, O.P.; Silva-Filha, M.H.

D-4 **PARTIAL CHARACTERIZATION OF A TYROSINE PHOSPHATASE AT OOGENESIS AND EMBRYOGENESIS OF *PERIPLANETA AMERICANA***
Oliveira, DMP; Machado, E.A.

D-5 **The yolk granules dynamics during early embryogenesis of *Periplaneta americana* showed by differential acidification and fusion of these organelles.**
Ramos, I. B; Motta, L. S; Machado, E. A.

D-6 **Distribution, isolation and partial characterization of cysteine proteinase of *Dysdercus peruvianus* (Hemiptera: Pyrrhocoridae)**
Bifano T. D.; Ornelas, C.C.;Tamaki, F. K.; Lopes, A. R., Terra, W.R.

D-7 **The participation of polyphosphates during embryogenesis of the hard *Boophilus microplus***
Eldo Campos, Jorge Moraes, Arnoldo R. Façanha, Aoi Masuda, Itabajara Vaz Jr. and Carlos Logullo

D-8 **Insecticidal Action of Labramin, a Novel Protein Showing Lectin-like Properties, on *Anagasta kuehniella* Development**
Martinez,D.S.T., Bueno, R.D., Araujo-júnior, R.T., Freire, M.G.M., Macedo, M.L.R.

D-9 **Study of the perimicrovillar membrane synthesis in the cotton seed sucker bug *Dysdercus peruvianus* (Hemiptera: Pyrrhocoridae)**
Damasceno-Sá J. C., Silva C. P., Terra W. R.

D-10 **AN UNEXPECTED INHIBITORY ACTIVITY FOR CYSTEINE PROTEASES OF BMTI-A AND BMTISINT, TWO KUNITZ-TYPE SERINE PROTEASE INHIBITORS FROM *Boophilus microplus***
Sasaki, S.D.; Cotrin, S.S.; Carmona, A.K.; Tanaka, A.S.

D-11 **MOLECULAR CLONING, EXPRESSION, AND BIOCHEMICAL CHARACTERIZATION OF A NOVEL CYSTEINE PEPTIDASES INHIBITOR FROM TICK *Boophilus microplus***
Lima,C.A., Sasaki, S.D.,Tanaka,A.S.

D-12 **Molecular Phylogeny of *Atta laevigata* (Hymenoptera: Formicidae)**
Vinha, G.G.; Silva-Pinhati, A.C.O.; Bacci Jr., M.; Carvalho, A. O. R.

D-13 **Specific 30 kDa protein from *Aedes albopictus* eggshell as a tool for species identification**
Figueira-Mansur, J.; Vasconcellos, A.M.H.; Braz, G.R.C.; Lourenço-de-Oliveira, R.; Masuda, H. and Moreira, M.F.

D-14 **MITOCHONDRIAL RESPIRATION in *Boophilus microplus eggs***
Jorge Moraes; Eldo Campos; Arnoldo R. Façanha; Arianne Fabres; Pedro Rodrigues; Antônio Galina; Joana d´avila; Marcus Oliveira; Aoi Masuda; Itabajara Vaz jr. and Carlos Logullo

D-15 **GST gene expression in egg, larval and tissues of *Boophilus microplus***
Freitas, D. R. J.; Rosa, R. M.; Moura, D. J.; Da Silva Vaz jr, I.; Aoi Masuda

D-16 **Immune system-reproductive system interaction in *Rhodnius prolixus* challenged with fungi**
Medeiros, M.N., Medeiros, L.N., Kurtenbach, E. and Machado, E. A.

D-17 **Describing hemosome membrane heme-transfer activity in the cattle tick *Boophilus microplus*: detoxification of heme and xenobionts.**
Lara, F. A.;Lima, C. M. R.; Hayashi, E. A.; Nóbrega, A.; Pereira, A.; Oliveira, P. L.

D-18 **FATE OF UBIQUITINATED-VITELLIN OF *Rhodnius prolixus***
Mendonça, L.H.; Salerno A.P.; Gomes L.S.C.; Cunha e Silva N.; de Souza W.; Masuda H. 1-Instituto de Bioquímica Médica/UFRJ – Rio de Janeiro; 2 - Lab. Microscopia Eletrônica Dra. Hertha Mayer from IBCCF/UFRJ.

D-19 **Bi-glutaminated biliverdin: *A. aegypti* heme degradation product**
Pereira, L. O. R.; Almeida, I.; Sophia, R.A.; Brewer, L; Oliveira, P. L. and Paiva-Silva, G. O.

D-20 **Expression of two different α-amylases from *Diatraea saccharalis* (Lepidoptera).**
Lucas O. Guerra, Sandro Marana, Fernando A. Genta, Clélia Ferreira and Walter R. Terra

D-21 **Profile of Chitin Synthase gene expression during *Aedes aegypti* embryonic development**
G.L. Rezende; A.J. Martins-Junior; L.C. Farnesi; C. Gentile; J.B. Linss; A.A. Peixoto; D. Valle

D-22 **IDENTIFICATION AND MOLECULAR CHARACTERIZATION OF LEUCYL AMINOPEPTIDASE FROM THE MIDGUT OF BLOOD FEEDING DIPETALOGASTER MAXIMUS**
Macedo, TC; Felix, CR; Santana, JM; Macedo, V; Cadavid, G; Lozzi, SP

D-23 **Effects of retinoids in insect Rhodnius prolixus: possible involvement of ultraspiracle (USP) gene product**
R. Stiebler, A. Nakamura, F.B. Oliveira, D.R. Furtado, H. Masuda, M.R. Fantappie, E. Fialho, M.F. Oliveira

D-24 **The HMG-D gene in *Rhynchosciara americana***
Siviero, F.; Brandão, A.S.; Santelli, R.V.; Machado-Santelli, G.M.

D-25 **Further characterization of heme aggregation process in the midgut of the blood sucking insect *Rhodnius prolixus***
Gandara, A.C.P.; Oliveira M.F.; Almeida, C.B.; Paiva-Silva G.O. and Oliveira P.L.

D-26 **PROTEIC AND ENZYMATIC SIMILARITIES ON THE VENOM COMPOSITION OF SOCIAL WASPS (HYMENOPTERA:VESPIDAE).**
HAYASHI, P.; SUEMASU, C. N.; DA SILVA, G. P.; RODRIGUES, A.; GOBBI, N.; BACCI-JR, M.; CHAUD-NETTO, J.; BROCHETTO-BRAGA, M. R.

D-27 **Lipid Metabolism In *Aedes aegypti***
Batista E.S.; Oliveira G.A. and Atella GC

D-28 **DENGUE VIRUS MODULATES PHOSPHOLIPID METABOLISM IN MOSQUITO CELLS**
Cunha, P.R.B.B.; Conceicão, T.M.; da Poian, A.T.; Atella, G.C.

D-29 **The Bioactive Molecules From *Belostoma anurum* Saliva**
Vargas, C.S.; Oliveira G.A.; Souza, A.S.; Targino, M.R.; Monteiro R.Q.; Pereira, M.H.; Melo A.L.; Tavares-do-Carmo, M.G. and Atella, G.C.

2-Resumos.pmd 43 6/6/2005, 12:38

Título dos Resumos

D-30 **Chitin characterization in eggshells and ovaries of *Rhodnius prolixus* and effect of a chitin synthase inhibitor on oviposition, hatching and nymph viability.**
A.S. Santos; M.F.Moreira,; J.F.Mansur; L.J. Mendes; D.R. Nascimento; E.A. Machado; A.M.H. Vasconcellos

D-31 **Changes on protein profile of *Aedes aegypti* peritrophic matrix in presence of a chitin synthase inhibitor.**
J.F. Mansur, A.M.H. Vasconcellos, A.S. Santos, F.J. Lemos, M.A. Oliveira, V. Páscoa, M.F. Moreira

D-32 **Expression Of P-Glycoprotein Homologs In The Malpighian Tubules Of *Aedes aegypti* and *Rhodnius prolixus***
S.A.Justi, M.F. Moreira, D.Falkenstein.

D-33 **Blood Digestion In Sand Fly Vectors**
Silva, V.C.; Costa, C. H. N.; Melo, J.A.T.; Bloch Jr, C.

D-34 **Toxicity and Physiological Effects of *Labramia bojeri* Aqueous Extracts on *Anticarsia Gemmatalis*.**
Araujo-Júnior, R.T.; Martins, C. H. Z.; Freire, M.G.M.; Parra, J.R.P.; Macedo, M.L.R.; e-mail: bioplant@terra.com.br.

D-35 **Biological Effects of a Protein Showing Lectin-Like Properties from *Labramia bojeri* Seeds On Larval Development of *Anticarsia gemmatalis***
Bueno,R.D., Freire, M.G.M., Parra, J.R.P., Macedo, M.L.R.

D-36 ***Adenanthera pavonina* Trypsin Inhibitor: Potential Growth Inhibitor for *Diatraea saccharalis***
Silva, W.; Freire, M.G.M.; Parra, J.R.P.; Macedo, M.L.R.

D-37 **Modulation Of Nitric Oxide Synthase Expression In *Rhodnius prolixus* Infected By *Trypanosoma rangeli*.**
Lopes, F.G.;Mesquita, R.D.; Ximenes, A.; Machado, E.A.; Atella, G.C.; Silva-Neto, M.A.C.

D-38 **Adaptation of *Anagasta kuehniella* (Lepidoptera: Pyralidae) to a Trypsin Inhibitor from *Dimorphandra mollis* Seeds**
Ramos,V.S.; Mello,G.C.; Freire,M.G.M.; Marangoni,S.; Macedo,M.L.R.

D-39 **EFFECTS OF *Pelthoforum dubium* TRYPSIN INHIBITOR ON *Corcyra cephalonica* (LEPIDOPTERA: PYRALIDAE) DEVELOPMENT**
Miyada,E.Y.; Freire, M.G.M.; Macedo, M.L.R.

D-40 **Cattle tick *Boophilus microplus* inhibits histamine, bradykinin and the contact system activities**
J. Reck Jr.; C. B. Bohrer and C. Termignoni

D-41 **Expression, Purification and Recovery of a Recombinant Annexin from *Spodoptera frugiperda***
Genta, F.A.; Almeida, J.V.; Ferreira, A.H.P.; Terra, W.R.; Ferreira, C.

D-42 **SEQUENCING AND EXPRESSION ANALYSIS OF AN ACYL-COA BINDING PROTEIN IN THE BLOOD-SUCKING BUG *Rhodnius prolixus* MIDGUT**
Majerowicz, D.; Grillo, L.A.M.; Paiva-Silva, G.O.; Gondim, K.C.

D-43 **STRUCTURAL AND BIOCHEMICAL CHARACTERIZATION OF EMBRYONIC CUTICLE OF *Rhodnius prolixus*.**
Ferreira P; Bouts DMD; Ramos IB; Attias M Atella GC; Moreira MF and Masuda H.

D-44 **DNA bending in the replication zone in the C3 DNA puff of *Rhynchosciara americana* (Diptera: Sciaridae)**
A. Fiorini, F.S. Gouveia, M.A.M. Soares, A.J. Stocker, R.R. Ciferri, M.A. Fernandez.

D-45 **Development of mutant BT toxins active against the fall armyworm *S. frungiperda***
Oliveira, G.R., Figueira, E.L.Z., Silva, M.C.M., Brunetta, S.F., Cavalcante, K.L., Grossi de Sá, M.F.

D-46 **Effects of *Talisia esculenta* seed extract on larval development of *Homalinotus coriaceus***
Maria das Graças M. Freire; Valéria Páscoa; Viviane G. Rossi; Maria Lígia R. Macedo; Francisco José A. Lemos; Flávio C. Miguens

D-47 **Trypsin-like activity of membrane-bound midgut proteases from *Anticarsia gemmatalis*(Lepidoptera: Noctuidae)**
L.P. Xavier; M.G.A. Oliveira; R.N.C. Guedes; J.A. Oliveira; F.T. Almeida; F.M. Pilon; A.M. Pilon; S.T. Rezende; V.M. Guimarães and L. E. Visôtto

D-48 **A serine protease inhibitor (serpin) cloning from *Haemaphysalis longicornis* as a candidate molecule for anti-tick vaccine targeting possible anti-coagulant function of ticks.**
Imamura, S.; Da Silva Vaz Jr., I; Ohashi, K. and Onuma, M.

D-49 **ANTIFUNGICAL FACTOR FROM *Aedes aegypti* EGGSHELL: AN ULTRASTRUCTURAL ANALYSIS**
Furtado, AP; Silva, EO; Bouts, DMD; Silva-Neto, MAC; Masuda, H; Melo, ACA

D-50 **Digestive activities related to prey digestion in different orders of Arachnida.**
Lopes A.R.; Genta, F.A.; Ferreira, C.; Terra, W.R.

D-51 **Expression, renaturation and purification of a recombinant digestive chitinase from *Tenebrio molitor* (Coleoptera) larval midgut.**
Genta, F.A., Marana, S.R., Terra, W.R. and Ferreira C.

D-52 **Lipids Dynamics in the Oocytes and Eggs of *Rhodnius prolixus***
Santos, R. and Gondim, K. C.

D-53 **Biochemical answer of the soy caterpillar to the inhibitor of protease benzamidine and its effects in the post-embryonic development.**
A.M. Pilon; R.N.C. Guedes; F.M. Pilon; F.T. Almeida; J.A. Oliveira; J.S. Marinho; N.R. Moreira and M.G.A. Oliveira

D-54 **Morphology and preliminary enzyme characterization of the salivary glands from the predatory bug *Podisus nigrispinus***
J.A. Oliveira; M.J. Soares; R.N.C. Guedes; E.G. Mendonça; F.M. Pilon; A. Fazollo and M.G.A. Oliveira

D-55 **Partial characterization of glutathione S-transferases and phosphotriesterases in pyrethroid-resistant and susceptible populations of the maize weevil, *Sitophilus zeamais***
D. B. Fragoso; B.L. Damasceno; R.N.C. Guedes; R.A. Araújo; A.S. Corrêa; C.T. Santos and M.G.A. Oliveira

D-56 **Characterization of Phosphate and Polyphosphate in the eggs of *Periplaneta Americana***
GOMES, F.M.; MOTTA, L.S.; RAMOS, I.B.; DOCAMPO, R.; MACHADO, E.A

D-57 **Malaria Parasite Manipulates Mosquito Phosphotyrosine Profile**
Senna R.;Melo P.L.C. and Silva-Neto M.A.C.

2-Resumos.pmd 44 6/6/2005, 12:38

D-58 **Binding of the *Bacillus thuringiensis israelensis* Cry Toxins to *Aedes aegypti* (Diptera: Culicidae) Midgut Brush Border Membranes**
Silva-Filha, M.H.; Beltrão, H.M.B.

D-59 **INFESTIN 1R, FROM *Triatoma infestans* MIDGUT, IS A CRUZAIN INHIBITOR AND IMPAIRS INVASION OF CULTURE CELLS BY TRYPOMASTIGOSTES**
Lovato, D.V.; Azevedo, E.B.; Schenkman, S.; Tanaka, A.S.

D-60 **EXPRESSION, PURIFICATION AND CHARACTERIZATION OF LIPOCALINS CLONED OF SALIVARY GLAND CDNA LIBRARY OF *Triatoma infestans***
Pimentel,C,C; Torquato,R.J.Sa; Lovato, D.V; Tanaka-Azevedo,A.M.;. Santoro, M.L.;Oliveira,V. and Tanaka, A.S.

D-61 **TRYPSIN-LIKE ACTIVITY IN THE LARVAL MIDGUT OF *Homalinotus coriaceus* (Coleoptera: Curculionidae)**
Freire, M.G.M., Canevari, G.C., Kubo, C.E.G., Viegas, M.P.,Macedo, M.L.R.

D-62 **BIOCHEMICAL ANALYSIS OF *Boophilus microplus* TICK CHALLENGED WITH FUNGI *Metarhizium anisopliae* AND BACTERIA *E. coli***
Torquato, R.J.S., Sasaki, S.D., Pimentel, C.C., Malavazi-Piza, K.C. and Tanaka, A.S.

D-63 **Partial Purification of Two Digestive Trypsin-like Proteases from *Anticarsia gemmatalis* Larvae**
Xavier L.P.; Santos, A.P.; Oliveira, J.S.; Oliveira, M.G.A.; Santoro, M.M.

D-64 **LUCIFERASES FROM BRAZILIAN FIREFLIES (COLEOPTERA: LAMPYRIDAE): PHYLOGENETIC AND EVOLUTIVE ASPECTS**
F. G. C. Arnoldi and V. R. Viviani

D-65 **Influence of thioredoxin fusion protein in solubilization, refolding and antigenicity of an aspartic proteinase of *Boophilus microplus* expressed in inclusion bodies**
Alexandre T. Leal; Paula C. Pohl; Carlos A.S. Ferreira; Carlos Logullo; Marcos Sorgine; Sandra E. Farias; Itabajara S. Vaz; Aoi Masuda

D-66 **Mitochondrial control region (D-loop) sequence of *Diatraea saccharalis* (Lepidoptera, Crambidae).**
Bravo, J.P.; Felipes J.; Zanatta D.B.; Fernandez, M.A.

D-67 **Detection of vicilins in the fat body of *Callosobruchus maculatus* larvae**
Souza, S.M.; Uchôa, A.F.; Fernandes, K.V.S.; DaMatta, R. A.; Silva, C.P. and Xavier-Filho, J.

D-68 **ISOLATION OF HIGHLY HYDROPHOBIC SERINE PROTEASES FROM LEPIDOPTERA INSECTS MIDGUT**
Lopes,A.R.; Tamaki, F.K.; Genta,F.A.; Terra,W.R.

D-69 **Polimorphism analysis of the light chain fibroin gene (L) of *Bombyx mori L.*(Lepidoptera, Bombycidae).**
Felipes, J.; Bravo, J.P.; Ciferri, R.R.; Patussi, E.V.; Fernandez, M.A.

D-70 **PURIFICATION AND PARTIAL CHARACTERIZATION OF AN AMINOPEPTIDASE FROM THE MIDGUT TISSUE OF *Dysdercus peruvianus***
Inês A. Costa and Carlos P. Silva

D-71 **Complete amino acid sequence of the recombinant THAP of the *Boophilus microplus*: cloning and expression**
Pohl, P.C.; Leal, A.T., Sorgine, M., Vaz, I., Masuda, A.

D-72 **A α-GLUCOSIDASE AND β-FRUTOSIDASE FROM THE GUTS OF ADULT LEAF-CUTTING ANTS *Acromyrmex subterraneus* (HYMENOPTERA: FORMICIDAE).**
Costa, V.B.; Carneiro, C.N.B.; Erthal, Jr., M.; Silva, C.P.; Samuels, R.I.

D-73 **TRYPSIN-LIKE ENZYMES SECRETED BY *Leucoagaricus gongylophorus*, THE FUNGAL SYMBIONT OF THE LEAF-CUTTING ANT *Acromyrmex subterraneus* (HYMENOPTERA: FORMICIDAE) WHEN CULTURED ON INSECT CUTICLE.**
Erthal Jr., M.; Morais, V.; Silva, C.P.; Pedra Jr., P.C. and Samuels, R.I.

D-74 **Characterization of a trypsin-like enzime from *Zabrotes subfasciatus* (Coleoptera: Bruchidae) expressed in *E. coli.***
Magalhães C.P.; Souza, D.S.L.; Finardi-Filho, F.; Silva, C.P.; Grossi-de-Sá, M.F.

D-75 **DEVELOPMENTAL REGULATION OF INDUCIBLE α-AMYLASES IN THE BRUCHID BEETLE *Zabrotes subfasciatus***
Carla M. Santos, Marcela V. Andrade, Tanara V. Peres and Carlos P. Silva

D-76 ***Diatraea saccharalis* LTP: IDENTIFICATION, ISOLATION AND PARTIAL CHARACTERIZATION.**
POMPILHO, W.M; SILVA, J.R; ENTRINGER, P. F; GONDIM, K. C; ATELLA, G. C AND DANSA-PETRETSKI, M.

D-77 **α-Glucosidase: a candidate to heme polymerase in *Rhodnius***
Flávia Borges Mury; José Roberto da Silva and Marílvia Dansa-Petretski

D-78 **Effect of dietary amygdalin and esculin in *Spodoptera frugiperda***
Silva, M.C.P., Terra, W. & Ferreira, C.

D-79 **Metabolic Studies During *Aedes aegypti* Embryo Development.**
Vital, W.O.; Moraes, J.; Logullo, C.

D-80 **THE ACTIVE SITE OF A MIDGUT TREHALASE FROM *Tenebrio molitor* LARVAE**
Ana Gómez; Sandro R. Marana; Walter R. Terra; Clélia Ferreira

D-81 **Purification and characterization of major laminarinase from Spodoptera frugiperda (Lepidoptera) larvae midguts**
Genta, F.A.; Bragatto, I.; Terra, W.R. and Ferreira, C.

D-82 **Searching for defense proteins and peptides with anti-viral activity**
Figliuolo, V. R.; Medeiros, M. N.; Gomes-Neto, F., Freitas, M.S.; Almeida, F. C. L., Machado, E. A.

D-83 **Changes in ornithine decarboxylase activity in response to temperature stress and stimulation of juvenile hormone in *Anastrepha fraterculus* (Diptera, Tephritidae)**
Cardoso, V.V; Pizzol, F.; Prestes, P.R.; Moreira, J.C.F.; Oliveira A.K.

D-84 **Cattle Tick Salivary Protein Profile**
Ciprandi, A.; Zingali, R.; Masuda, A.,Termignoni, C.

D-85 **Larvicidal and protease inhibitory activities of crude plant extracts against *Aedes aegypti*.**
A.O. Gaio, T.S. Soares, K.P. Aguiar, N.N.S. Nunes and F.J.A, Lemos

Título dos Resumos

Bioquímica e Biologia Molecular de Plantas

E-1 **Biochemical composition of bean varieties**
Fialho, L. S.; José, I. C.; Barbosa, D. S.;Guimarães, V. M.; Barros, E. G.; Rezende, S. T.

E-2 **Analyses of the regulatory region of the salt gene from rice (*Oryza sativa* L.)**
Queiroz, K.S.; Ferreira, B.S.; Azevedo, B.I.T.; de Souza Filho, G.A.

E-3 **Molecular cloning of cDNA clones for the antimicrobial peptides (LTP and plant defensin) from *Vigna unguiculata* seeds**
André O. Carvalho; Gonçalo A. S. Filho; Beatriz S. Ferreira; Alan T. Branco; Ioná Araújo and Valdirene M. Gomes

E-4 **HPLC Analysis of Flavonoids in *Ananas comosus* [L.] Merrill**
*Oliveira, M.I.P; Lima Filho, J.L.; Pimentel, M.C.B.*E-mail: mariaisaura@lika.ufpe.br\end*

E-5 **Chitinase expression in *Adenanthera pavonina* L. seedlings**
I. S. Santos; M. Da Cunha; A. E. A. Oliveira; O. L. T. Machado; A. G. C. Neves-Ferreira; S. F. F. Ribeiro; Machado, O.L.T.; V. M. Gomes

E-6 **Analysis of the Effects of a Tomato Cysteine Proteinase Inhibitor on Development and Reproductive Potential of the *Callosobruchus maculatus***
H.C. Madureira, R.A. DaMatta, M. Da Cunha, K.V.S. Fernandes, A. Frutuoso and T. Jacinto

E-7 **Induced Gene Responses to Herbivory in Sugarcane**
Barsalobres, C.F.; Medeiros, A.H.; Pompermayer, P.; Di Mauro, S.M.; Ulian, E.C.; Moura, D.S.; Silva-Filho, M.C.

E-8 **Induction Of Defense Proteins In Bean (*Vigna Unguiculata* Seedlings Infected With The Fungus, *Fusarium Oxysporum*.**
Vieira, F. A.; Carvalho, A. O.; Diz, M. S. S.; Gomes, V. M.

E-9 **Polyphenol oxidases (PPOs) are induced by wounding in unifoliates from Vigna unguiculata (EPACE-10) plants**
Pinto, M.S.T., Siqueira, F.P., Oliveira, A.E.A. and Fernandes, K. V. S.

E-10 **TRANSCRIPTION PROFILING OF SIGNAL TRANSDUCTION-RELATED GENES IN SUGARCANE TISSUES**
Flávia Riso Rocha, Flávia Stal Papini-Terzi, Ricardo Zorzetto Nicoliello Vêncio; Kátia Cristina Oliveira; Juliana de Maria Felix; Renato Vicentini; Cristiane de Souza Rocha; Ana Carolina Quirino Simões; Eugênio César Ulian; Sônia Marli Zingaretti di Mauro; Aline Maria da Silva; Carlos Alberto de Bragança Pereira; Marcelo Menossi; Gláucia Mendes Souza.

E-11 **A SINGLE POINT MUTATION REVEALS A CRUCIAL ROLE OF TYR269 FOR INHIBITION OF *Arabidopsis thaliana* UNCOUPLING PROTEIN 1 BY PURINE NUCLEOTIDES**
Fávaro, R.D.; Borecký, J.; Vercesi, A.E.; and Maia, I.G.

E-12 **PHARMACOLOGICAL CHARACTERIZATION OF THE RAT PAW EDEMA INDUCED BY KUNITZ-TYPE INHIBITOR FROMrn *Dimorphandra mollis* SEEDS**
De Mello, G.C; de Souza, I.A., Antunes, E.; Marangoni, S.; Novello, J.C.; Macedo, M.L.R.

E-13 **FUNCTIONAL STUDIES OF BbKI CHIMERIC: ACTION ON PROTEOLYTIC ENZYMES AND INSECTS DEVELOPMENT**
Brito,M.V.; Anjos, T.P.; Araújo, A.P.U.; Hansen, D., Silva-Lucca R.A.; Sumikawa, J.T.; Sampaio, M.U. and Oliva, M.L.V.

E-14 **Size constraints for the hydrophobic domain of oleosins**
R.M.P. Siloto and M. Moloney

E-15 **Effect of the recombinant Bauhinia bauhinioides Cruzipain Inhibitor, rBbCI, and Bauhinia bauhinioides Kallikrein Inhibitor, rBbKI on cell invasion by Trypanosoma cruzi.**
Hansen, D.; Santana, A.L.; Navarro, M; Garratt, R.C; Araújo, A.P.U.; Rodrigues, M. M.; Hyane, M. I. and Oliva, M.L.V. (e-mail:olivaml.bioq@epm.br)

E-16 **ACTION OF SOME PEPTIDES RELATED FROM Bauhinia rufa INHIBITOR PRIMARY SEQUENCE ON INSECT DEVELOPMENT**
Sumikawa, J.T.; Macedo, M.L.R.; Silva, W.; Nakaie, C.R.; Miranda, A.; Xavier- Filho, J.; Uchôa, A.F.; Sampaio, M.U. and Oliva, M.L.V.

E-17 **Identification and Characterization of a Sugarcane Promoter Induced by Herbivory**
P. Pompermayer; R.M. Barata; V.E. Rosa Junior; F.T.S. Nogueira; E.C. Ulian; M.C. Falco; M.C. Silva-Filho

E-18 **Proteomics from Citrus Sudden Death**
Wulff, N.A., Cantú, M.D., Mariano, A.G., Padiar, N.R.H., Carrilho, E., Palma, M.S. e-mail: nelsonwulff@fundecitrus.com.br

E-19 **REGULATION OF NITRATE REDUCTASE EXPRESSION IN *Gracilaria tenuistipitata***
Falcão, V.R.; Oliveira, M.C. and Colepicolo, P. e-mail: vfalcao@iq.usp.br

E-20 **Involvement of members of the ethylene signaling pathway on the sugarcane interaction with nitrogen-fixing endophytic bacteria**
Cavalcante, J.J.V.; C. Vargas; K. Schwarcz; E. Nogueira; F. Vinagre; J.I. Baldani; P.C.G. Ferreira and A.S. Hemerly

E-21 **INFLAMMATORY MEDIATORS INVOLVED IN THE NEUTROPHIL MIGRATION INDUCED *in vivo* BY LECTIN FROM *Annona coriacea* SEEDS**
Coelho, M. B.; DeSouza, I. A.; Freire, M. G. M.; Novello, J.C.; Marangoni, S.; Antunes, E. and Macedo, M. L. R.

E-22 **A novel protein network controlling G1/S phase transition in Arabidopsis thaliana**
Cabral, L.M.; Masuda, H.P.; Macrini, C.; Benchimol, J.F.;Ferreira, P.C.G.; Hemerly, A.S.

E-23 **Protein Quality Evaluation of Globulins from Cowpea *Vigna unguiculata***
Sousa, E.M., Fernandes, G.S., Maia, F.M.M., Oliveira, J.T.A., Campello, C.C., Vasconcelos, I.M.

E-24 **Peroxidase, superoxide dismutase and catalase activities in *Ricinus communis* plants treated with methyl jasmonate**
Soares, A.M.S., Souza, T.F.; Costa, I.D.; and Machado, O.L.T.

E-25 **Characterization of Pumilio-Binding RNA of *Arabidopsis thaliana***
Francischini, C.W., Quaggio, R.B.

E-26 **Functional Characterization of Intracellular Targets Recruited in a Hypothetical Geminivirus NSP-Based Network**
Florentino, L.H.; Fontenelle, M.R.; Santos, A.A.; Zerbini, F.M.; Fontes, E.P.B.

E-27 **Biochemical and structural analysis of latex from papayas showing typical sticky disease symptoms**
Rodrigues S.P.; Da Cunha, M.; Ventura J.A.; Fernandes P.M.B.

E-28 **IDENTIFICATION AND EXPRESSION OF UNCOUPLING PROTEIN GENES IN *Vigna unguiculata* (L.) WALP PLANTS UNDER COLD STRESS**
Costa, J. H., Garantizado, E. A., Carneiro, P. B. M., Oliveira, L. S., Silva Lima, M. G., and Fernandes de Melo, D.

E-29 **Proteic characterization of the Brassica oleracea var. captata extract**
FREIRE, M.C.M; SARANDY, M.M.; MALAQUIAS, L.C.C; GALVÃO, E.R; DA SLIVA, M.B.; REZENDE,S.T.

E-30 **Analysis of soybean BiP (binding protein) promoter activity in *Nicotiana tabacum* (L.) transgenic lines**
RODRIGUES, L. A. Z.; Irsigler, A. T.; Carolino, S. M. B. and Fontes, E. P. B.

E-31 **Biochemical characterization of a leucine rich repeat (LRR) transmembrane receptor like kinase (RLK) involved in an anti-viral signaling pathway.**
D.F. Luz; M.L.Oliveira; M.C.B. Pereira; and E.P.B. Fontes

E-32 **Analysis of Binding Protein (BiP)-mediated water stress tolerance in transgenic tobacco**
Pedro Augusto Braga Reis; Hélder Lima Carvalho; Alessandro Jaquiel Waclawovsky; Marco Antônio Oliva Cano; Sonia Madali Boseja Carolino; Elizabeth Pacheco Batista Fontes.

E-33 **Two-dimensional gel electrophoresis analysis of *Ocotea catharinensis* during somatic development**
Moraes, F.M.S.; Sousa, M.V.; Santa Catarina, C.; Floh, E.I.S. and Ricart, C.A.O.

E-34 **Isolation, Purification and Partial Characterization of the Pulchellin Isoforms: a RIP type 2 from *Abrus pulchellus* seeds.**
Castilho, P.V.; Silva, A.L.C.; Araújo, A.P.U.

E-35 **CLONING OF A cDNA FRAGMENT ENCODING A PUTATIVE METHYL JASMONATE INDUCIBLE LIPOXYGENASE FROM PASSION FRUIT LEAVES *Passiflora flavicarpa***
Jardim, B.C.,Siqueira-Junior, C. L. Urmenyi, T. P., Hansen, E., Vicente, A. C. P., Otsuki,K. and Jacinto, T.

E-36 **SUPPRESSION OF POST-TRANSCRIPTIONAL GENE SILENCING IN PLANT TISSUES WITH HIGH RATIOS OF CELULAR DIVISION**
Cruz, F.P.; Margis, R.; Vaslin, M. F. S.

E-37 **TRANSGENIC PLANTS IN THE CHARACTERIZATION OF THE NtWBC1 GENE ENCODING AN ABC TRANSPORTER PREDOMINANTLY EXPRESSED IN THE REPRODUCTIVE ORGANS OF *Nicotiana tabacum***
Silva, L.R.; Otsu, C.T.; Quiapim, A.C.; Goldman, G.H.; Goldman, M.H.S.

E-38 **SUPRESSION SUBTRACTIVE HYBRIDIZATION (SSH) TO IDENTIFY GENES PREFERENTIALLY EXPRESSED IN STIGMA/STYLE OF *Nicotiana tabacum*.**
De-Paoli, H.C.; Dornelas, M.C.; Molfetta, J.B.; Quiapim, A.C.; Ribeiro, D.C.D.; Brito M.S.; Avanci, N.C.; Goldman, G.H; Goldman, M.H.S.

E-39 **Metabolomic Analysis of Plant Cell Suspension and Callus Cultures of *Pentas lanceolata Rubiaceae*.**
Caprini, G.P.; Souza, A.F.; Dagnino, D.S.; Lemos, F.J.A.; Schripsema, J.

E-40 **TRANSCRIPT ACUMMULATION ANALYSIS REVEALED A SPECIFIC EXPRESSION PATTERN FOR EACH MEMBER OF THE RICE (*Oryza sativa* L.) APx GENE FAMILY.**
Teixeira F.K., Menezes-Benavente L., Galvão V.C., Margis R., Margis-Pinheiro M.

E-41 **Analyze of genetic modified soybean embryos for fatty acid composition**
PASSOS-LIMA, A.B; BRESSAN, G.C.; JOSÉ, I.C.; PIOVESAN, N.D.; TARGUETA, C. P.; OTONI, W. C.; MOREIRA, M. A.

E-42 **Coordinated Regulation of Soybean Genes by Endoplasmic Reticulum Stress and Water Deficit**
A.S.T. Irsigler, R.E. Dewey, R.S. Boston and E.P.B.Fontes

E-43 **The Effects of Sodium and Potassium Salts in Germination and in the Activity of Tyrosine Phosphatase in Maize (*Zea mays*) Seeds.**
Simonin,V.; Senna, R.; Silva Neto, M.A.C.; Fialho, E.

E-44 **Partial purification of methyl jasmonate-inducible serine proteinase inhibitor(s) from passion fruit (*Passiflora Flavicarpa*) leaves.**
Botelho-Junior, S; Siqueira-Junior, C.L; Machado, O.L.T; Jacinto, T.

E-45 **Use of gene constructs for silencing an oleoyl desaturase gene in soybean (*Glycine max* (L.) Merrill)**
TARGUETA, C. P.; PASSOS-LIMA, A. B.; BARROS, E. G.; MOREIRA, M. A.

E-46 **Immobilization of Hairy Roots of *Phyllanthus tenellus* and the Induction of Their Antioxidants by Passion Fruit Organic Residues**
OLIVEIRA, S.L.; COSTA, E.P.; FERREIRA, J.C.; CATUNDA, P.H.A.; LOURO, R.P. and SANTIAGO, L.J.M.

E-47 **ACCUMULATION OF AN ALLENE OXIDE SYNTHASE(AOS)IN PASSION FRUIT(*Passiflora flavicarpa*)LEAVES IN RESPONSE TO WOUNDING AND METHYL JASMONATE.**
Siqueira-Junior, C. L.; Jardim, B. C.; Hansen, E.; Vicente, A. C. P.; Otsuki, K.; Urmenyi, T. P.; Machado, O. L. T.; Madureira, H. C.; da Cunha, M.; Oliveira, G. M. M. and Jacinto, T.

E-48 **Isolation and Characterization of Antifungal Peptides from *Amburana cearensis* and *Parkia platycephala* Seeds.**
P. H. A. Santos; I. S. Santos; A. O. Carvalho; V. M. M. Melo and V. M. Gomes

E-49 **Biochemical characterization of novel peptides from passion fruit seeds (*Passiflora edulis*) active against filamentous fungi**
Pelegrini, P. B.; Moreira, I. C. A.; Muniz, M. A. R.; Bloch. Jr., C.; Noronha, E. F. and Franco, O. L.

E-50 **Isolation and molecular characterization of antimicrobial peptides from two cultivars of *Sesamum indicum* kernels.**
Costa, F. T.; Souza,T. M. S.; Tagliari, P.D.; Noronha, E. F.; Melo, J. A. T.; Bloch Jr.,C.; Pelegrini, P. B.; and Franco, O. L.

E-51 **Binding of a Recombinant Cowpea (*Vigna unguiculata*) Cystatin to Insulin, Cell Wall and Cell Membrane Components from Seeds of *Vigna vexillata***
Da Cunha, P.C.; Uchoa, A.F.; Pinto, M.S.T.; Oliveira, A.E.A.; Fernandes, K.V.S.

E-52 **Characterization of a novel chitinase from passion fruit seeds *Passiflora edulis***
Muniz, M. A. R., Pelegrini, P. B., Moreira, I. C. A., Noronha, E. F., Franco, O. L.

Título dos Resumos

E-53 ***In vivo* and *In vitro* effects of a novel α-amylase inhibitor from papaya seeds (*Carica papaya*) with specificity against insect α-amylase**
Farias, L. R; Souza, L. A.; Pelegrini,P. B.; Grossi-de-Sá, F.M.; Bloch Jr, C.; Laumann, R. A.;Noronha, E. F. and Franco, O. L.

E-54 **Purification and characterization of three different classes of α-amylase inhibitors from an unique plant species (*Dipteryx alata* Vog.) with activities toward insect-pests enzymes.**
Bonavides, K. B.; Pelegrini, P. B.; Noronha, E. F.; Laumann, R. A.; Grossi-de-Sá, M. F.; Bloch Jr, C.; Franco, O. L.

E-55 **Neutralization of the proteolytic and coagulant activity of *Bothrops cotiara* (SERPENTES:VIPERIDAE) venom by *Casearia sylvestris Flacourtiaceae* and *Hedera helix Araliaceae* aqueous extracts.**
BARCHIKI, F.; PEREIRA, L. F.; ELIFIO-ESPOSITO, S.

E-56 **Functional Analysis Of The Geminivirus Nuclear Shuttle Protein.**
Pinheiro, G.L.; Santos, A.A.; Pereira, M.C.B.; Fontes, E.P.B.

E-57 **Evolutionary-Genetical Studies of Maize in Central West Region of Brazil**
Maia, V.H.; Mega, L.F.; Bustamante, P.G.; Ferreira, P.C.G.

E-58 **Determination of the content of proteins, lipids, carbohyidrates and minerals in three species of medicinal plants**
Maia, C.P.C.; Amorim, I.L; Silva, A.A.R.; Ary, M.B.; Oliveira, M.S.C.; de Melo, D.F.

E-59 **Lethal effects of *Trembleya parviflora* leaves toward hospital infection gram-negative bacteria.**
Azevedo, A.M.; Pelegrini, P.B.; Noronha, E.F.; Oliveira, S.C.C.; Franco, O.L.

E-60 **Modulation of phosphohydrolase activities in apoplastic fluids from maize roots colonized by arbuscular mycorrhizal fungus**
Silva, L.B.C.; Ramos, A.C.; Campos, E.; Logullo, C. and Façanha, A.R.

E-61 **Deleterious effects of a proteinaceus inhibitor from *Delonix regia* seeds with activity against *Callosobruchus maculatus* α-amylases**
Souza, T.M.S., Saúde, A.C.M.; Tagliari, P.D.; Murad, A. M., Costa, F.T., Bloch Jr, C., Noronha, E. F. and Franco, O. L.

E-62 **Comparative study of the responses of plasmalema and tonoplast H^+ pumps to the water stress imposed to plants of *Zea mays* L. and *Cyperus rotundus***
Venancio, J.B.; Catunda, M.G.; Ogliari, J.; Façanha, A.R.

E-63 **The Arabidposis Family of Defensins: Expression in Homologous and Heterologous Systems**
Magalhães, R.D.M.; Costa, M.D.L.; Fontes, E.P.B.; Baracat-Pereira, M.C.

E-64 **Screening of Functional Insecticidal Molecules Using rnCombinatorial Library**
Del Sarto, R.P.; Silva, M.C.M.; Teixeira, F.R.; Costa, M.F.; Cruz, C.C.M.; Figueira, E.L.Z.; Maranhão, A.Q.; Brígido, M.M.; Coutinho, M.V.; Bezerra, I.C.; Mello, L.V.; Rigden, D. J. and Grossi-de-Sá, M.F.

E-65 **Use of Phage Display to Select OCI Mutants Against Cysteine Proteinase from Insect Pest.**
Costa, M.F.;el Sarto, R.P.; Souza D.L.S.; Silva, M.C.M.; Figueira, E.L.Z.; Grossi-de-Sá, M.F.

E-66 **The Effect of Salt Stress on Plasma Membrane H^+-ATPase of Corn Roots (*Zea mays*).**
COSTA, D. C. F.; SOUZA-SANTOS, P.; FIALHO, E.; SCOFANO, H. M.; CARVALHO-ALVES, P. C.

E-67 **Characterization of Genes Predominantly Expressed in the Stigma/Style of *Nicotiana tabacum* by Real Time RT-PCR**
Brito, M.S.; Quiapim, A.C.; daSilva, I.; Marques, E.R.; Savoldi, M.; De-Paoli, H.C.; Goldman, G.H.; Goldman, M.H.S.

E-68 **PURIFICATION AND FUNCTIONAL ANALYSIS OF THE RECOMBINANT SALT LECTIN FROM RICE (*Oryza sativa* L.)**
de Oliveira, M.V.V; Bernabé, R.B.; Lourenço, G.F.; Branco, AT; de Souza Filho, G.A.; goncalos@uenf.br

E-69 **The Induction of Phenolic Compounds Pathway and Antioxidant Activity in *Eucalyptus urophylla x grandis* Hyperhidric Plants**
Costa, E. P.; Menezes A. D. M.; de Oliveira, S. L.; Flores, V. M. Q.; Louro, R. P.; Santiago, J. M.

E-70 **Development of microsatellits marks in *Theobroma cacao* L.**
Araújo, I. S.; Intorne, A. C.; Leite, V. F.; Marques, V. C. L.; Pereira, M. G.; Lopes, U. V.; de Souza filho, G. A. e-mail:van_felix@yahoo.com.br; goncalos@uenf.br

E-71 **Partial Identification of Soluble Protein OF PALM FRORRAGEIRA rn *opuntia fícus- indica, Mill.* Over expressed Under Hidric Stress Conditions**
Reis, M.B.A; Lisboa, E.; Souza, DLS.; Romano, E.

E-72 **Biological Properties of *Arundo donax* Lectin**
Vozári-Hampe M. M.; Zanetti, G. D.; Dresch, R. R.; Irazoqui, F.; Trindade, V. M. T.

E-73 **Accumulation of Hydrogen Peroxide and Induction of Antioxidative Enzyme Activities Confer Resistance of Cowpea [*Vigna unguiculata* (L.) Walp.] to the fungus *Colletotrichum gloeosporioides***
Barreto, A.L.H.; Eloy, Y. R. G.; Matos, T.E. de; Martins-Miranda, A.S.; Freire F. C. O.; Freire-Filho, F.R.; Vasconcelos, I.M.; Fernandes, C. F.; Oliveira, J.T.A.

E-74 **CONSTRUCTION AND CHARACTERIZATION OF DEFENSIN PSD1 PROTEIN MUTANTS - STRUCTURE-ACTIVITY RELATIONSHIP STUDY**
Castro, H.C.; Sathler, P.C.; Medeiros, L.N.; Kurtenbach, E.; and Rodrigues, C.R.

E-75 **Modification of gene expression to alter lignin content and/or composition in plants**
F.F. de Felippes, P. Perini and G. Pasquali

E-76 **Pistil specific transcripts encoding metiltransferases are produced by a complex combination of different exons in tobacco**
Molfetta, J.B.; Guidugli, M.C.; Faleiros, R.O.; daSilva, I.; Quiapim, A.C.; Angelo, P.C.S.; Ribeiro, D.C.D.; Goldman, G.H.; Goldman, M.H.S.

E-77 **The coronary outflow in isolated perfused rabbit heart with Bauhinia bauhinioides Kallikrein inhibitor.**
Santomauro-Vaz, EM; Neuhof, C, Neuhof, H; Takeda, LH; Sampaio, MU; and Oliva, MLV

E-78 **ACTION OF Bauhinia bauhinioides PROTEINS ON Paracoccidioides brasiliensis AND Candida albicans**
De Caroli, F. P.; Assis, M. L.; Guimarães, L.L.; Souza, M.T.; Straus, A.H.; Takahashi, H.K.; Sampaio, M.U and Oliva, M.L.V.

E-79 **Toxicological Evaluation of a Protein Fraction from the Latex of *Calotropis procera* and its proliferative effect upon lymphocytes**
Alencar, N.M.N.; Aguiar, V.C.; Lima, M.W.; Xavier, A.A.S.; Mesquita, R.O.; Bandeira, G.P.; Vasconcelos, I.M.;Ramos, M.V.

E-80 **Seed coats are toxic to *Callosobruchus maculatus***
Santos P.O.; Silva A.C.; Rangel D.S.R.; Werneck D.A.; Matos L.W.; Pinto M.S.T.; Machado, O.L.T.; Fernandes K.V.S.; Xavier-Filho J. and Oliveira A.E.A.

E-81 **Globulin-like proteins from seeds are able to bind to insulin.**
Ribeiro, E.S.; Cunha M.; Machado O.L.T.; Fernandes K.V.S.; Xavier-Filho J. and Oliveira A.E.A.

E-82 **Insulin immunorelated proteins are present during plant germination and development**
Monteiro A.C.G.; Fornaciari K.V.; Simões I.V.; Venâncio T.M., Fernandes K.V.S.; Xavier-Filho J. and Oliveira A.E.A.

E-83 **The Amino Acid Sequence of a Kunitz Tripsin Inhibitor with a Single Disulfide Bridge from *Inga laurina* Seeds**
Macedo M.L.R., Garcia V. A., Richardson M.

E-84 **Metabolic Alterations in Genetically Modified Potato Tubers (*Solanum tuberosum* L.) Expressing Increased Levels of Invertase**
Centeno, D.C.; Machado, D.N.; Silva, M.A.P.; Loureiro, M.E.; Nunes-Nesi, A.

E-85 **Modulation of the Gibberellin Degradative Pathway in Transgenic Rice Confers Tolerance to Submergence**
Andréa M. Almeida; Priscilla S. Paes; Camilo E. Vidal; Pieter B. F. Ouwerkerk; Dominique Van Der Straeten

E-86 **Characterization of Cysteine Proteases from Latex of *Carica candamarcensis* displaying mitogenic effect**
Gomes, M.T.R; Mello, V.J.; Felicori, L.; Olortegui, C.C.; Lopez, M.T.P; Bemquerer, M.P.; Salas, C.E.

E-87 **Screening Native Legume Seeds for High Levels of Phytocystatins and Partial Purification of a Cystatin from *Clitoria fairchildiana* seeds**
Oliveira, L.O.; Ribeiro, J.M; Rangel, M.; Pinto, M.S.T.; Xavier-Filho, J.; Oliveira, A.E.A; Fernandes, K.V.S.

E-88 **Effects of insulin on plants**
Silva, L.B.; Santos, C. A.; Amorim, I.M.; Souza, A.J.; Oliveira, A.E.A.; Fernandes, K.V.S.; Xavier-Filho, J.

E-89 ***Nicotiana tabacum* Plants Transformed with *rolA::gfp* Translational Fusion Exhibit Alteration in Morphology and Development**
Barros, LMG; Arrial, RT; Lacorte, C; Carneiro, M

E-90 **EXPRESSION ANALYSIS BY TRANSFORMATION AND PARTIAL PURIFICATION OF RECOMBINANT PROTEIN TYROSINE PHOSPHATASE FROM SOYBEAN (*GLYCINE MAX*)**
Leite, L.C., Silva, T.L. and Aoyama, H.

E-91 **Chlorogenic acid profile of twenty commercial Brazilian herbal infusions.**
Da Silva, A. I.; Santana, C. S.; Pivato, S. C. L.; De Maria, C. A. B., Moreira, R. F. A.

E-92 **SPECTROSCOPIC STUDIES OF SYNTHETIC PEPTIDES DERIVED FROM *Bauhinia bauhinioides* PLASMA KALLIKREIN INHIBITOR**
Silva-Lucca, R.A; Casallanovo, F.; Nakaie, C.R.; Beltramini, L.M and Oliva, M.L.V.

E-93 **The Nitric Oxide Release With Bauhinia bauhinioides Recombinant Protease Inhibitors In Hind Limb Ischemia Reperfusion : Local And Distance Effects.**
Duran, CCG; Santomauro Vaz, EM; BaptistaSilva, JCC; Higa, EM; Sampaio, MU; and Oliva, MLV

E-94 **ACTION OF BbKI, A KALLIKREIN INHIBITOR ON Ca^{2+} MOBILIZATION AND PAIN.**
Andrade, S.S. Lopes, G.S., Lopes, M.C.B.T., Kouyoumdjian, M., Smaili, S.S., Oliva, M.L.V., Sampaio, M.

E-95 **Biochemical analyzes of nutritional compounds from cagaita fruits (*Eugenia dysenterica* Mart ex. D. C.).**
Murad, A. M.; Souza, T. M. S.; Saúde, A. C. M.; Sousa, A. R. C.; Noronha, E. F.; Franco, O. L.; Neto, E. L.

E-96 **Identification of Sugarcane Differentially Expressed Genes during Water-deficit by Macroarray**
Dedemo,G.C.; Laia, M.L.; Rodrigues, F.A.; Silva, T. G. M.; Ferro, M.I.T.; Ferro, J.A.; Di Mauro, S.M.Z.

E-97 **Chitin-Binding Proteins from *Moringa oleifera* Seeds as a Component in the Plant Defense**
Oliveira, H.P.; Gifoni, J.M.; Moraes, J.K.S.; Oliveira, J.T.A.; Vasconcelos, I.M.

E-98 **Evaluation of *Eucalyptus* genes for drought tolerance**
Korbes, A.P.; Bodanese-Zanettini, M.H.; Pasquali, G.

E-99 **ALTERNATIVE OXIDASE GENES EXPRESSION DURING DIFFERENT STAGES OF FRUIT DEVELOPMENT IN *Vigna unguiculata* (L.) WALP**
Costa, J. H., Garantizado, E. A., Carneiro, P. B M., Lauxmann M., Silva Lima, M., Orellano, E. G., and Fernandes de Melo, D.

E-100 **Proteins from *Spondias mombin L.* and *Eugenia uniflora L.* actives against fungi and bacteria.**
Daga, C. J.; Barbosa, T.; Cardoso, H. N. P.; Vitalino, R. C.; Marques, G. M.; Lazzari, A. M.; Silva, M. S.; Grossi-de-Sá, M. F. and Melo, F. R.

E-101 ***Bauhinia pentandra* endospermic gum: isolation, characterization and interaction with the endogenous lectin.**
Crisóstomo, C.V.; Vitorino, M.M.F.; Moreira, R.A.

E-102 **Study of *Arabidopsis thaliana pumilio* homolog role during the plant development**
Favaro, E.C., Quaggio, R.B.

E-103 ***GENOLYPTUS* Project: sequencing and functional analysis of the *Eucalyptus* transcriptome**
F.M. Bastolla, F. Pazzini, R.P. Kirch, M.F. Carazzole, R.V. Brondani, A.S.G. Coelho, S.H. Brommonschenkel, J. Schwambach, A.G. Fett-Neto, G.J. Pappas Jr; G.A.G. Pereira, J.C.M. Cascardo and G. Pasquali

E-104 **Purification and Antibacterial Actividad of Synthesized Peptides During the Germination of Seeds of Soybean (*Glycine max* [L.] Merrill)**
Barbosa, M.O.; Koscky-Paier, C.R.; Almeida, H. O.; Lima, M.C.O.P.; Chaves-Alves, V.M.; Romeiro, R.S.; Santoro, M.M.; Fontes, E.P.B; Baracat-Pereira, M.C.

Título dos Resumos

E-105 **AtPAB1, a novel pre-RC interacting protein that drives cells to differentiation in *Arabidopsis thaliana***
Masuda, H.P.; Benchimol, J.F.; de Toni, K.L.; Cabral, L.M.; Ferreira, P.C.G.; Hemerly, A.S.

E-106 **INHIBITION OF MELANOMA DEVELOPMENT BY PROTEASE INHIBITORS ISOLATED FROM Bauhinia bauhinioides and Enterolobium contortisiliquum USING *IN VIVO* MODELS**
AM Nakahata, MG Jasiulionis, Oliveira C., Nakahata M., MU Sampaio, and MLV Oliva

E-107 **The gene expression and activity of the plastidic starch phosphorylase during banana ripening**
Janaína Aparecida Mainardi; Eduardo Purgatto; Adair Vieira Jr.; Walter Arato Bastos; Beatriz Rosana Cordenunsi; João Roberto Oliveira do Nascimento; Franco Maria Lajolo

E-108 **Binding protein (BiP) ectopic expression in soybean: correlation with storage protein synthesis and water stress tolerance**
Valente, M.A.S., Faria J.A.Q.A.; Carolino, S.M.B.; Aragão, F.J.L.; Oliveira, M. L.; Fontes, E.P.B.

E-109 **Ectopic Expression Of Receptor Like Protein Kinases (Lrrii-Rlk) In Arabidopsis: Evidence For A Role In Defense-Signaling Pathway.**
Fontes, R.P.F.; Santos, A.A.,; Zerbini, F.M. and Fontes, E.P.B.

E-110 **ISOLATION AND BIOCHEMICAL CHARACTERIZATION OF BACTERIOSTATICAL PROTEINS FROM *Lafoensia pacari* XYLEM: A NOVEL STRATEGY FOR HOSPITAL INFECTION CONTROL**
Pereira, A. G.; Noronha, E. F.; Franco, O. L.

E-111 **Soybean Toxin (SBTX) and its Role in the Plant Defense**
Sousa, D.O.B.; Siebra, E.A.; Morais, J.K.S.; Oliveira, J.T.A.; Carlini, C.R., Grangeiro, T.B.; Vasconcelos, I.M.

E-112 **Construction of a DNA Microarray of Transcriptome Analyses *Gracilaria Tenuistipitata* During Heavy Metals Stress**
Tonon, A.P.; Zaini, P.A.;Oliveira, M.C.; Colepicolo P.

E-113 **Coffee leaf proteome: protein extraction and resolution by two-dimensional gel electrophoresis**
Guimarães,B.L.S.; Lanza, D.C.F.; Costa, M.D.L.; Lima, M.C.O.P.; Loureiro, M.E.; Baracat-Pereira, M.C.; Fontes, E.P.B.

E-114 **INSULIN IS PRESENT IN SUGARCANE (*Saccharum officinarum* L.).**
Maciel, F. M.; Lopes, M. A. C.; Da Cunha, M.; Fernandes, K. V. S.; Oliveira, A. E. A. and Xavier-Filho, J.

E-115 **Biochemical and Nutritional Characterization of a High Protein Soybean Line Devoid of Kunitz Trypsin Inhibitor and Lectin**
Pinto, M. O.; Salla, M. F. S.; Peluzio, M. C.G.; Piovesan, N. D.; Moreira, M. A.; Barros, E. G.

E-116 **Identification and Characterization of Proteins that interact with the Pumilio protein from *Arabidopsis thaliana***
Fontanari, J.C.; Quaggio, R.B.

E-117 **Introduction of microssatelite and SCAR markers into a common bean genetic map and identification of QTL associated to yield**
Sousa, C. S.; Queiroz, V. T.; Barros, E. G.; Moreira, M. A.

E-118 **Cloning of a antiquitina of soybean (*Glycine max* [L.] Merrill) and ectopic expression in Nicotiana tabacum and Arabidopsis thaliana: evidence for a role in aldehyde detoxification.**
Rodrigues, S.M., Fontes, R.P.F., Oliveira, M.L., Loureiro, M.E., Fontes, E.P.B.

E-119 **Heterologous Expression and Purification of two Novel Cystatins from Sugar Cane**
Gianotti, A.; Nogaroto, V.; Henrique-Silva, F.

E-120 **ISOLATION AND CHARACTERIZATION α-AMYLASE INHIBITORS FROM *Ricinus communis* PLANTS**
Nascimento V.V.; Crespo-Neto H.A. and Machado O.L.T.

E-121 **PHOTOCHEMICAL EFFICIENCY AND ANTIOXIDANT SYSTEM AFFECTED BY HIGH TEMPERATURE IN *Vigna unguiculata* L. Walp**
Hespanhol, L.; Avelar, J.C.; Vitória, A.P.; Oliveira Jr., L.F.G.; Façanha, A.R.; Bressan-Smith, R.

E-122 **Proximate Composition, Amino Acid Content, Antinutritional Factors and Metabolizable Energy of *Moringa oleifera* Lam.**
Brasil, I.C.F.; Paula, S.M.A.; Vasconcelos, I.M.; Oliveira, J.T.A.; Campello, C.C.; Freitas, E.R.; Fuentes, M.F.F

E-123 **MOLECULAR CHARACTERIZATION OF A NOVEL *ARABIDOPSIS THALIANA* F-BOX PROTEIN**
Baptista, L. P.; Caiaffa, C. D.; Hemerly, A. S.; Ferreira, P. C. G.

E-124 **Comparative Study of Gene Expression in the Vegetative and Reproductive Organs of *Nicotiana tabacum* L.**
Quiapim, A.C.; Malavazi, I.; Brito, M.S.; Vitorelli, P.M.; daSilva, I.; Ribeiro, D.C.D.; Goldman, G.H.; Goldman, M.H.S.

E-125 **PHOSPHATASE ACTIVITIES IN RESPONSE TO METHYL JASMONATE AND WOUNDING IN *Ricinus communis* PLANTS**
Souza, T.F.; Soares, A.M.S.; Araújo, J.S. and Machado, O.L.T.

E-126 **EXPRESSION OF A TOBACCO PISTIL METHYLTRANSFERASE IN *Escherichia coli***
Avanci, N.C.; Molfetta, J.B.; Parducci, R.J.; Quiapim, A.C.; Ribeiro, D.C.D.; De-Paoli, H.C.; Goldman, G.H.; Goldman, M.H.S.

E-127 **EVALUATION OF *Parkia pendula* LECTIN mRNA DIFFERENTIALLY EXPRESSED IN SEEDLINGS**
Neri, D.F.M.; Coelho, L.C.B.B.; Carvalho-Jr, L.B.; Beltrão, E.I.C.

E-128 **Effect of the Salt Stress on Physiological and Molecular Response of Photosynthetic Apparatus of Sugarcane (*Saccharum* spp)**
Dias, J. M. R.; Borges, R.; Ferreira, M. S.; Barbosa, R.R.; Branco, A. T.; Ferreira, B. S.; Carneiro Júnior, J. B.; Bressan-Smith, R. E.; Oliveira, J. G.; Campostrini, E.; de Souza Filho, G. A.

E-129 **Analysis of a Beta-1,3-Glucanase Gene Induced in Seed of Maize *Dek* Mutant *827K pro1*.**
Branco, A.T.; Ferreira, B. S.; Pereira, L. M.; Marques, V. C. L.; Machado, O. L. T.; Alvez, E. W.; de Souza Filho, G. A. e-mail:alantb@uenf.br; goncalos@uenf.br

E-130 **Analysis of Salt Stress Responsive Genes in Sucarcane and Rice by Macroarray Assays**
Ferreira, B.S.; Branco, A.T.; Carneiro Júnior, J.B.; Felix, J.M.; Menossi, M.; de Souza Filho, G.A. e-mail: ferreirabs@uenf.br, goncalos@uenf.br

E-131 **SILENCING OF SERK GENE *Somatic Embryogenesis Receptor Kinase* USING THE TECHNIQUE RNA OF INTERFERANCE IN TOBACCO *NicotianaTobacco, var. xanthi*.**
SILVA, V. D.; RESENDE, V. P.;REIS, M. B. A.;LISBOA, E. D.; SÁ, M. G.; PINTO, E. R.C.; SÁ, M. F. G.

2-Resumos.pmd 50 6/6/2005, 12:38

Bioquímica e Biologia Molecular de Vírus e Bactérias

F-1 **Comparison between microbiological methods and multiplex PCR for detection of pathogens in chicken rinse water**
G. F. Asensi; D. P. Rodrigues; J. T. Silva; V. M. F. Paschoalin

F-2 **Detection of caprine arthritis-encephalitis virus (CAEV) by double nested PCR and sequencing of proviral DNA in blood cells and epithelial milk cells from Brazilian goats**
Tigre, D. M.; Ferrão- Gonzales, A. D.; Moreau, V. H.; Campos, G. S.; Sardi, S.

F-3 **Cells lacking ClpB display a prolonged shutoff phase of the heat shock response in *Caulobacter crescentus*.**
Simão, R.C.G., Susin, M.F., Martinez, C.E.A. and Gomes, S.L.

F-4 **Gene expression in a Human Hepatoma cell line infected with Dengue virus serotype-2**
Conceição, TM, Canellas FS, Sorgine MHF, Ramirez J, Montero-Lomeli M and Da Poian, AT

F-5 **Histone-like protein (H-NS) from *Mycobacterium tuberculosis* H37Rv: cloning and expression**
Werlang, I.C.R.; Basso, L.A.; Santos D.S.

F-6 **Molecular Cloning and Expression of Functional Histidinol Dehydrogenase (EC 1.1.1.23) from *Mycobacterium tuberculosis* H37Rv**
Ducati, R.G., Basso, L.A. and Santos, D.S.

F-7 **Molecular characterization of *Vibrio cholerae* O1 alkaline phosphatase**
Goulart CL; Sousa FJR; Lery LM; Manta FSN; Neves-Ferreira AGC; Perales JE; Bisch PM; von Kruger WMA

F-8 **Antimicrobial Proteins Secreted by *Burkholderia cepacia***
Deus, M.F.; Samuels, R.I.; Santos, A.V.; Vieira-da-Motta, O.; Gonçalves, D.S.; Silva, L.G.; Silva, M.J.R.

F-9 **Purification and partial characterization of a secreted protein of *Gluconacetobacter diazotrophicus* pv. PAL-5 with bacteriocine activity against bacterial sugar cane pathogens**
Boniolo, F. S.; Araújo, G. S. M.; Gondim, F. C.; Olivares, F. L.; Martinez, C. A. R.; de Souza Filho, G. A.; Flores, V. M. Q.

F-10 **Purification of functional Prephenate dehydratase from *Mycobacterium tuberculosis* H37Rv**
Vivan, A.L.; Basso, L.A. & Santos, D.S.

F-11 **Expression Analysis of an Operon Encoding Alkaline Protease, a Serine Protease in *Xylella fastidiosa* using Lab-on-Chip technology**
R.F. Travensolo; M.E.F. Huacca; J.C. Campanharo; C.S Caruso; M.V.C Gottardi; E.G.M. Lemos; E. Carrilho

F-12 **Cloning and Expression of TatD, an enzyme Twin Arginine translocation system from *Xylella fastidiosa***
Caruso, C.S.; Travensolo, R.F.; Araújo, A.P.U.; Lemos, E.G.M.; Carrilho, E.

F-13 **VP4 PROTEIN FROM HUMAN RHINOVIRUS 14 IS RELEASED BY PRESSURE AND LOCKED IN THE CAPSID BY THE ANTIVIRAL COMPOUND WIN**
Gonçalves, RB; Mendes, YS; Soares, MR; Katpally, U; Smith, TJ; Silva, JL and Oliveira, AC.

F-14 **Characterization of protein-protein interactions important for the regulation of the quorum-sensing process in *Xanthomonas axonopodis pv. citrii***
Andrade, M.O.; Alegria, M.C. and Farah, C.S.

F-15 **SECRETION OF PROTEINS INDUCED BY FLAVONOIDS IN *Herbaspirillum seropedicae***
Chaves, D.F.S.; Monteiro, R.A.; Souza, E.M.; Baura, V.; Pedrosa, F.O.

F-16 **IMPLEMENTATION OF A REAL-TIME RT-PCR TEST FOR THE RAPID,SENSITIVE AND SPECIFIC DIAGNOSIS OF DENGUE**
Martins, A.P.M.S; Fornells, L.A.M.G. and Woodall, J.P.

F-17 **Molecular and biochemical profile of sugar cane endophytes**
Magnani,G.S.; Martin-Didonet, C.; Cruz, L.M.; Pedrosa, F.O.; Baura,V.; Fadel-Pichet, C.;Souza,E.M.

F-18 **Heme-mediated viral inactivation**
Abreu-Fialho AP; Crisostomo-Jr VJL; Nascimento-Silva MCL; Sorgine MHF; DaPoian AT; Oliveira PL

F-19 **Vibrio cholerae El Tor grown with N-acetylglucosamine or glucose: differential protein expression and identification**
Santos, EO; Coelho, A

F-20 **Evidences of functional PhoB binding sites in the regulatory region of the operon phoBR in Vibrio cholerae**
Passos MDM; Farache J; Costa LT; Reese L; Thalhammer S; Heckl WM; Bisch PM; von Krüger WMA

F-21 **The phosphate starvation response in *Vibrio cholerae* O1 and PhoB mutant under proteomic analysis: disclosing functions involved in adaptation, survival and virulence**
von Kruger, WMA; Lery, LMS; Soares, MR; Manta, FSN; Silva, CBM; Neves-Ferreira, AG; Perales, J.E.; Bisch, PM

F-22 **Study of the CGTase sequence from *Bacillus* sp subgroup *alcalophilus* strain E16**
H. F. Alves-Prado; E. Gomes; J. C. Rosa; L. J. Greene; P. Rahal and R. Da Silva

F-23 **A survey for secreted proteins of *Gluconacetobacter diazotrophicus* growing in complex and defined liquid medium.**
Evaristo, J.A.M.; Retamal, C.A.; Olivares, F.L; Chapeaurouge, A.Alves; E:W

F-24 **Characterization of a Nonmotile Mutant of Classical *Vibrio cholerae* O1 O395: Utrastructure, Adhesion Properties and Proteomic Analysis**
Queiroga-Brito, S.; Rodrigues, J.C.F.; Attias, M; Bisch, P.M. and von Krüger, W.M.A.

F-25 **Regulation of Violacein Biosynthesis and *Quorum Sensing* Signaling in *Chromobacterium violaceum***
Oliveira, C.G., Antônio, R.V., Porto, L.M.

F-26 **IN VITRO ACTIVITY OF NATURAL PRODUCTS DERIVED FROM MARINE ALGAES AGAINST HERPES SIMPLEX TYPE 1**
Abrantes, J.L.; Cavalcanti, D.; Soares, A.; Barbosa, J.; Pereira, R.C.; Teixeira, V.L. & Fontes, C.F.L., Frugulhetti, I.C.P.P.

F-27 **Molecular characterization of a microorganism isolated from wastewater treatment system from a refinery plant.**
Roselena Maria Castello Saenz, Ana Paula Rodrigues Torres, Vania Maria Junqueira Santiago, Joab Trajano Silva and Vânia M.Flosi Paschoalin.

2-Resumos.pmd 51 6/6/2005, 12:38

Título dos Resumos

F-28 **The viral onco-protein HBx interacts with the human transcription regulatory protein p120E4F**
Rui, E., Moura, P.R., Gonçalves, K.A., Rooney, R.J. and Kobarg, J.

F-29 **The Tryptophan Synthase protein from *Mycobacterium tuberculosis* H37Rv: Cloning and expression of *trpA* gene and cloning of *trpB* gene**
Czekster, C.M.;. Fonseca, I.O.; Basso, L.A.; Santos, D.S.

F-30 **Intrinsic Bent DNA sites in *Xylella fastidiosa oriC* region**
Gimenes, F.; Fiorini, A.; Fernandez, M.A

F-31 **Purification of *AroB*-encoded Dehydroquinate Synthase from *Mycobacterium tuberculosis* H37Rv and genetic complementation in *Escherichia coli* mutants**
Mendonça, J. D.; Ely, F.; Frazzon, J.; Basso, L. A.; Santos, D. S.

F-32 **The effect of pH on the expression of *phoA*, a member of the Pho regulon of classical and El Tor strains of *Vibrio cholerae* O1**
Goulart CL, Barbosa LC, Farache J, Bisch PM and von Kruger WMA

F-33 **Expression of the Hepatitis B Virus Onco-Protein HBx and Identification of Possible RNA Ligand Sequences Using the SELEX Method.**
Gonçalves, K.A.; Rui, E.; Moura, P.R.; Kobarg, J.

F-34 **Evaluation of the ability of *Burkholderia kururiensis* to endophytically colonize rice and its contribution for the plants' growth**
Hallack, L.F.; Mattos, K.A.; Pádua, V.L.M.; Romeiro, A.; Barros, C.F; de Carvalho, T.M.U.; Todeschini, A.R.; Heise, N.; Previato, J.O. and Mendonça-Previato, L.

F-35 **The role of sterol-rich membrane domains in the fusion mechanism of an enveloped virus**
Sousa Jr., I.P.; Carvalho, C.A.M.; Silva, J.L. and Gomes, A.M.O.

F-36 **Structural Characterization of Mayaro Virus**
Freitas M. S., Oliveira G. A., Gaspar L. P., Silva J. L.

F-37 **STRUCTURAL CHANGES ON YELLOW FEVER VIRUS INDUCED BY HIGH HYDROSTATIC PRESSURE: Obtention of inactivated particles**
Mendes, YS; Alves, NS; Gaspar, LP; Gonçalves, RB; Galler, R; Freire, MS; Silva, JL & Oliveira, AC.

F-38 **CHARACTERIZATION OF DIAZOTROPHIC BACTERIAL STRAINS BY SDS-PAGE**
Ane F.B. Zeidler; Rose A. Monteiro; Fábio O. Pedrosa; Emanuel M. Souza; Leonardo M. Cruz

F-39 **Evidence for the colonization of common bean (*Phaseolus vulgaris*) roots by the endophytic diazotroph *Herbaspirillum seropedicae***
Maria Augusta Schmidt; Rose Adele Monteiro; Fábio de Oliveira Pedrosa and Emanuel Maltempi de Souza.

F-40 **VESICULAR STOMATITIS VIRUS INACTIVATION BASED ON MEMBRANE FUSION INHIBITION AS A MEANS FOR VACCINE DEVELOPMENT**
F Stauffer, MC Schechter, VRM Souza, JM Miranda, FA Carneiro, AMB Alves and AT Da Poian

F-41 **Proteomic analysis of human liver cells infected with dengue virus 2**
Rosa, M.S., Sa, L.A., Silva, S.F., Bisch, P.M., DaPoian, A.T., Lomeli, M.M. and Mohana-Borges, R.

F-42 **OCCURRENCE OF BEGOMOVIRUSES AND SATELLITES DNAS IN WEEDS AND TOMATO PLANTS IN SOUTHEASTERN BRAZIL**
S.S. Ferreira; E.P.B. Fontes; F.M. Zerbini

F-43 **Xanthomonas axonopodis pv. citri:Comparative proteome of normal and mutant for Type II Secretion System**
Horiuchi, RSO, Martins, D., Winck, F.V., Marangoni, S., Machado, M. A., Amaral, A. M., Novello, J.C.

F-44 **Structural organization of the *glnBA* genomic region of *Azospirillum brasilense*.**
Castellen, P.; Wassem, R.; Monteiro, R.A.; Souza, E.M.; Pedrosa, F.O.

F-45 **Further characterization of NH_4^+-regulated genes of *Herbaspirillum seropedicae***
Schwab, S.; Ramos, H.J.; Souza, E.M.; Pedrosa, F.O.; Chubatsu, L.S.; Steffens, M.B.R.; Yates, M.G.; Rigo, L.U.

F-46 **EFFECTS OF THE CELULAR GENE EGR-1 ON POXVIRAL BIOLOGY**
SILVA, P.N.G., SOARES, J.A.P., ANDRADE, A.A., MAGALHÃES, J.C., FERREIRA, P.C.P., BONJARDIM, M.B., KROON, E.G., BRUNA-ROMERO, O. & BONJARDIM, C.A.

F-47 **Organization and structure of *Chromobacterium violaceum* genes involved in cellulose biosynthesis**
Recouvreux, D.O.S.; Carminatti, C.A.; Pitlovanciv, A.K.; Araújo, D.G.; Miqueleto, A.P.; Oliveira, I.L.; Antônio, R.V.; Porto, L.P.

F-48 **Effect of ATP, Glutamine and α-Ketoglutarate Concentrations in the *In Vitro* Uridylylation of the GlnB Protein of *Azospirillum brasilense* Strain FP2**
Araújo, L.M.; Benelli, E.M.; Baura, V.; Souza, E.M.; Pedrosa, F.O. and Chubatsu, L.S.

F-49 **Analysis of the presence of pXF5823 and pXF5852 in *Xylella fastidiosa* isolated from citrus plants.**
M.A. Takita; E.O. Pereira; H.D. Coletta-Filho; A.A. de Souza; R. Caserta; C.M. Rodrigues; K.M. Borges; M.A. Machado

F-50 **Effects of mutant forms of the GlnZ protein on the post-translational regulation of nitrogenase activity in *Azospirillum brasilense***
Inaba, J.; Yates, M.G.; Pedrosa, F. O.; Klassen, G. and Souza, E. M.

F-51 **FUNCTIONAL CHARACTERIZATION OF THE ALTERNATIVE SIGMA FACTOR RpoN OF *H. seropedicae***
Rego, F. G. M.; Pedrosa, F. O.; Yates, M.G.; and Souza, E. M.

F-52 **Early colonization of root intercellular spaces of maize by *Herbaspirillum seropedicae***
Rose Adele Monteiro; Carolina Camargo de Oliveira; Marco Ferreira Randi; Roseli Wassem; Leda Satie Chubatsu; Geoffrey Yates; Fabio de Oliveira Pedrosa and Emanuel Maltempi de Souza.

F-53 **Hepatitis B virus genotyping in chronic hepatitis B patients with resistance to treatment with Lamivudine.**
Haddad, R.; Uyemura, S.A.; Martinelli, A.L.C.; Yokosawa, J.

2-Resumos.pmd 52 6/6/2005, 12:38

F-54 **IDENTIFICATION OF MICROCYSTIN PRODUCING STRAINS OF CYANOBACTERIA BY MALDI-TOF MASS SPECTROMETRY**
Fraga, E.S.; Silva, T.A.; Rangel, A.L.S.; Silva, J.T.; Schripsema, J.; Jacinto, T.; Dagnino, D.

F-55 **The Proteome of *Mycobacterium leprae***
Xavier da Silveira E.K.; Barbosa, D.A.;Marques, M.A.M.; Valente, R.H.; Neves-Ferreira, A.G.C.; Chapeaurouge, A.; Perales, J.; Pessolani, M.C.V. and Brennan, P.J.

F-56 **Cloning, Expression and Purification of Putative α-Hydroxynitrile Lyase Protein from *Xylella fastidiosa***
Caruso, C.S.; Araujo, A.P.U.; Lemos, E.G.M.; Carrilho, E.

F-57 **Cloning, expression and biochemical characterization of the *Mycobacterium leprae* secreted serine protease ML0176.**
Ribeiro, M.L.; Amaral, J.J.; Gomes-da-Silva, P.V.; Marengo, E.B.; Portaro, F.C.V.; Tempone, A.J.; Pessolani, M.C.V.

F-58 **Characterization of *Bradyrhizobium elkanii* SEMIA 587 in different growth conditions by FTIR and solid state ^{13}C-NMR**
Osiro, D.; Colnago L.A.; Lemos, E.G.M.

F-59 **Identifying new protein interactions of the *virB* clusters from *Xanthomonas axonopodis* pv *citri***
Docena, Cássia, Alegria, Marcos C., Khater, Letícia, Ramos, Carlos H.I., Benedetti, Celso, Farah, Chuck S.

F-60 **Multi-Dimensional Proteome Analysis of *Xanthomonas axonopodis* pv. *citri***
Márcia Regina Soares, Agda Paula Facincani, Rafael Marini Ferreira, Julio Cezar Franco de Oliveira, Jesus Aparecido Ferro, Maria Inês Tiraboschi Ferro, Rogério Meneghini and Fábio Cesar Gozzo

F-61 **Functional Analysis of the Copper Resistance *cop*A Gene from *Xanthomonas axonopodis pv. citri* by Gene Knock-out**
Teixeira, E. C; De Oliveira J. C. F.; Bertolini, M. C.

F-62 **PROTEOMICS ANALYSIS OF PROTEINS DIFFERENTIALLY SECRETED BY HEPG2 CELLS INFECTED WITH DENGUE VIRUS**
F. Canellas; L.M. Higa; A.L. Oliveira-Carvalho; M.B. Caruso; R.B. Zingali and A.T. Da Poian.

F-63 **Comparative Extraction Methods for Proteomics of *Bradyrhizobium elkanii* by One-Dimensional Electrophoresis**
Sader, A.P.O.; Carrilho, E.; Lemos, E.G.M.

F-64 **VIRUCIDAL ACTIVITY STUDY OF *Melaleuca alternifolia* ON PRV AND BHV-5 REPLICATION**
Dias, C. C. A.; Castro, L. A; Moraes, M. P.; Almeida, M. R.; Oliveira, T. T.; Pinheiro, A.L.; Moraes, G. H. K.

F-65 **Protein-Protein Interactions Identified for the Copper Resistance Proteins CopA, CopB and CutC from *Xanthomonas axonopodis pv. citri***
Teixeira, E. C.; Assis, P. A.; Farah, S. C.; Bertolini, M. C.

F-66 **STANDARTIZATION OF POLYMERASE CHAIN REACTION (PCR) FOR *Mycoplasma hyopneumoniae* DETECTION *in vivo***
Silva, F. M. F.; Castro, L. A.; Silva JR, A.; Neto, O. C.; Almeida, M. R.; Moraes, M. P. Santos, J. L.; Moraes, G. H. K.

F-67 **Proteome Analysis of Differentially Expressed Proteins During *Xanthomonas axonopodis* pv. citri Interaction with Plant Host**
Facincani, A.P.; Soares, M.R.; Ferreira, R M.; Ferro, M.I.T.; Ferro, J.A.; Meneghini, R.; Gozzo, F.C. and Oliveira, J.C.F.

F-68 **Physical Mapping of *Gluconacetobacter diazotrophicus* Pal 5 Genome Using Macrorestriction Analysis and Bacterial Artificial Chromosomes**
Loureiro, M.M.; Turque, A.S.; Bertalan, M.; França, L. M.; Silveira, C.B.; Pádua, V.L.M.; Martins, O.B.; Ferreira, P.C.G. and Riogene Genomic Sequencing Consortium

F-69 **Analyses of protein-protein interactions involving Xanthomonas axonopodis pv citri RNA polimerase sigma factors**
M.Claudia Pereda Rosa, and Chuck S. Farah

F-70 **CHARACTERIZATION OF THE *glnK* AND *amtB* GENES OF *Herbaspirillum seropedicae***
Noindorf, L.; Rego, F. G. M.; Dedecek, A. S.; Faoro, H.; Steffens, M. B. R.; Souza, E. M.; Pedrosa, F. O.; Chubatsu, L. S.

F-71 ***In vivo* formation of Asn-tRNA in *Escherichia coli* by archaeal nondiscriminating enzyme**
Cardoso, A. M.; Polycarpo, C. R.; Söll, D. and Martins, O. B.

F-72 **MOLECULAR DETECTION OF RICKETTSIAS FROM THE BRAZILIAN SPOTTED FEVER GROUP**
Oliveira, K. A.; Oliveira, L. S.; Dias, C. C. A.; Mafra, C. L.; Castro, L.A.; Galvão,M.A.; Moraes, G. H. K.

F-73 **Expression, Purification, Partial Characterization and Low Resolution Structure of a Putative Oxidoreductase from the Plant Pathogen *Xylella fastidiosa***
L. K. Rosselli, C. L. P. Oliveira, A. R. Azzoni, S. F. S. Tada, C. F. Catani, D. P. Paula, F. J. Medrano, I. L. Torriani and A. P. Souza

F-74 **Secretome of Vibrio cholerae Amazonia and El Tor: a preliminary analysis**
Vieira, M. D.; Coelho A.

F-75 **Detection of nif H gene in microorganisms from Guanabara Bay**
Riva, T.C.; Martins O.B. and Vieira R.P. E-mail: thiago.riva@gmail.com

F-76 **The *Herbaspirillum seropedicae* RecX protein inhibits the strand exchange and ATP hydrolysis promoted by RecA protein**
C. W. Galvão; F. O. Pedrosa; E. M. Souza; L. S. Chubatsu; M. Buck and M. B. R. Steffens

F-77 **Avian pathogenic *Escherichia coli* Strains Invade Chicken Embryo Fibroblasts**
M. Bastiani; N.L. Barbieri; F.J. Azeredo; F. Horn

F-78 ***In vitro* RNA interference against MHV-3 virus**
Grippo, M.C., Campos- Pereira,T., Gilioli, R. and Lopes-Cendes, I.

F-79 **Evaluation of *in vitro*}effect of *Tamarindus indica* L. extracts upon virulence factors of *Streptococcus mutans* associated with dental caries.**
Leite, M.F., Kawata, V.K.S., Leitão, D.P.S., Polizello, A.C.M., Uyemura, S.A., Spadaro, A.C.C.

F-80 **Diversity of *Rhizobium* isolated from the common bean (*Phasolus vulgaris*) from Campo Belo do sul – SC - Brazil**
G. Pisa; F. O. Pedrosa; E. M. Souza; L. M. Cruz

2-Resumos.pmd 53 6/6/2005, 12:38

Título dos Resumos

Bioquímica e Biologia Molecular dos Eucariotos Primitivos

G-1 **Metabolic Pattern in Symbiotic Fungi of Attine Ants**
Lima, P. R. M.; Bacci Jr., M.; Mueller, U. G.

G-2 **Calcineurin controls temperature-induced transition from mycelium to yeast phase in rnParacoccidioides brasiliensisrn**
Diógenes C. D. Ribeiro; Francisco G. Nóbrega; Cláudia B. L. Campos

G-3 **Relationship between acidic stress tolerance in the probiotic *Saccharomyces boulardii* and Ena 1-4 p function**
Paes, L.S; Ramos, P.D.; Fietto, L.G. Trópia, M.J.M. Brandão, R.L. Fietto, J.L.R. and Castro, I.M.

G-4 **The *Aspergillus nidulans sld RAD50* Gene Interacts with *bimE APC1*, a Homolog of an Anaphase Promoting Complex Subunit.**
Malavazi, I.; Lima, J.F.; Fagundes, M. R. V. Z. K.; Efimov, V. P.; Goldman, M. H. S.; Goldman, G. H.

G-5 **INVOLVEMENT OF GLUTAREDOXINS AND THIOREDOXINS IN *Saccharomyces cerevisiae* PROTECTION AGAINST CADMIUM**
D.S. Gomes; A.D. Panek; E.C. A. Eleutherio

G-6 **LaTBP1: A *Leishmania (L.) amazonensis* Telomere Binding Protein that shares structural domains with the telomeric protein Rap1**
C.B.B. Lira; Siqueira Neto; C.H.I. Ramos; M.I.N. Cano

G-7 **Expression and functional complementation of a PMR1-like Ca^{2+}-ATPase from *Aspergillus fumigatus*.**
Soriani, FM; Magnani, T; Martins, VP; Tudella, VG; Uyemura, AS.

G-8 **ANTIOXIDANT AND ANTI-INFLAMMATORY EFFECTS OF POLYMERS FROM THE NATIVE MUSHROOMS *Geastrum saccatum* AND *Polyporus dermoporus***
Guerra, C.M.P; Souza, M.C.R.; Xavier, C.A.C.; Azevedo, T.C.G.; Moura, G.Q.; Baseia, I.G.; Rocha, H.A.O.; Leite, E.L.

G-9 **The ATM Kinase Homologue is Necessary for Maintaining Cell Polarity and is Probably Involved in the Control of Nuclear Proliferation in the Filamentous Fungus *Aspergillus nidulans*.**
Malavazi, I.; Lima, J.F.; Fagundes, M. R. V. Z. K.; Savoldi, M.; Goldman, M. H. S.; Goldman, G. H

G-10 **Heterologous expression, in *Escherichia coli*, of an alternative oxidase gene from *Aspergillus fumigatus***
MAGNANI, T.; MARTINS, V.P.; SORIANI, F.M.; TUDELLA, V.G.; CURTI, C. and UYEMURA, S.A.

G-11 **Heme (Fe-protoporphyrin IX) in *Trypanosoma cruzi* Cell Signalling**
Souza, C.F.; Silveira, A.B.; Laranja, G.A.T.; Nogueira, N.P.A.; Silva-Neto, M.A.C. and Paes, M.C.

G-12 **Phospholipid biosynthesis in endosymbiot-bearing trypanosomatids: new clues on organelle origin**
M. Frossard, A.C. Azevedo-Martins, W. De Souza, M. Einicker-Lamas and Motta, M.C.M.

G-13 **Mapping the physical interaction between Pub1 and Nab2 in *S. cerevisiae***
Apponi, L.H.; Harreman, M.T.; Gregio, A.P.B.; Corbett, A.H. and Valentini, S.R.

G-14 **The Putative Telomerase Reverse Transcriptase Component of *Leishmania* spp. : Gene Cloning and Characterization**
M.A. Giardini; C.B.B. Lira; F.F. Conte; J.L. Siqueira Neto; C.H.I. Ramos; M.I.N. Cano

G-15 **EVIDENCES FOR THE NUCLEAR LOCALIZATION OF SMZF1, A *Schistosoma mansoni* PUTATIVE TRANSCRIPTION FACTOR.**
Calzavara-Silva, C.E., Mourão, M.M., D'astolfo, D., Koritschoner, N., Franco, G.R.

G-16 ***Dictyostelium discoideum* YakA-regulated transcriptome analysis using cDNA microarrays**
Luciana Mantzouranis; Ricardo Zorzetto Nicoliello Vêncio; Milton Yutaka Nishiyama Junior; Glaucia Mendes Souza

G-17 **Targets For Functional Studies Selected by Subcellular Proteome Analysis of *Leishmania major***
de Oliveira, A.H.C.; Rosa, J.C.; Greene, L.J.; Ruiz, J.C.; Cruz, A.K. and Ward, R.J.

G-18 **Strategy for the identification of novel members of the aspartic proteinase gene family from *Schistosoma mansoni***
Chino, M.E.T.A.; Machado-Silva,J.R.; Silva-Jr, F. P.; De-Simone, S.G.

G-19 ***Leishmania* Rpa-1 is a nuclear protein that associates with the G-rich single-stranded telomeric sequence**
J.L. Siqueira Neto; F.M. Squina; L. Khater; C.B.B. Lira; M.A. Giardini; F.F. Conte; L.R.O. Tosi; C.H.I. Ramos; M.I.N. Cano

G-20 ***C. albicans* Mitochondrial Respiratory Chain: Contribution of Electron Transport Pathways to Yeast Viability**
Ruy, F.; Vercesi, A. E.; Schreiber, A. Z.;. and Kowaltowski, A. J.

G-21 **Comparative EST analysis reveals new insights in the biology of the aquatic fungus *Blastocladiella emersonii***
Karina F. Ribichich}; Raphaela C. Georg and Suely L. Gomes

G-22 **NS1-associated protein 1 (NSAP1) requires the methylated C-terminal RGG domain for its nuclear localization.**
Passos, D.O. Quaresma, A. J., Kobarg, J.

G-23 **Sex-related gene expression profile of the fluke *Schistosoma mansoni* using cDNA microarraysrn**
Katia Cristina Oliveira, Ricardo DeMarco, Thiago M. Venancio and Sergio Verjovski-Almeida.

G-24 **A novel regulatory control of glucose-repressible genes by anoxia in the filamentous fungus *Trichoderma reesei***
A.S.P. Ramos, E.D. Bonaccorsi, F.S. Chambergo, A.J.S. Ferreira, N. Cella, A.K. Gombert, A. Tonso and H. El-Dorry

G-25 **Deficiency of Pkc1 activity affects glycerol metabolism in *Saccharomyces cerevisiae*rn**
Thiago Martins Pais; Kátia Neves Gomes; Antônio Helvécio Totola; Luisáurea Viana Máximo; Juliana Lopes Rangel Fietto; Luciano Gomes Fietto; Ieso de Miranda Castro and Rogelio Lopes Brandão

G-26 **Gene Expression Inhibition by RNA interference of tRNA synthetases from *Trypanosoma brucei***
García, L.T.; Mantovani, M.; Thiemann, O.H.

G-27 **Structural Characterization of Polysaccharides Extracted from the Aposymbiottically Cultured Mycobiont of the Lichenized Fungus *Teloschistes flavicans***
A.C., Ruthes; R.A., Reis; D.L., Komura; E.R., Carbonero; G.L., Sassaki; P.A.J., Gorin; M., Iacomini

G-28 **Sequencing and Disruption of the RNA polymerase B Transcription Factor 3 (BTF3) of *Trichoderma reesei*.**
E.C. Saenz and H. El-Dorry.

G-29 **Analysis of a bidirectional promoter controlling the expression of the citrate synthase and isocitrate lyase genes in *Trichoderma reesei*.**
Estela Y. Valencia; Felipe S. Chambergo; Augusto S.P. Ramos and Hamza El-Dorry.

G-30 **Metallopeptidase in *Phytomonas serpens***
Lívia O. Santos; Fernanda A. Marinho; Camila G. R. Elias; Felipe A. Dias; André L. S. Santos; Marta H. Branquinha; Claudia M. d'Avila-Levy

G-31 **Expression and Activity Analysis of an Alternative Oxidase from *Crinipellis perniciosa***
Thomazella, D.P.T.; Garcia, O.; Meinhardt, L.W.; Rincones, J.; Saviani, E.E.; Salgado, I.; Pereira, G.A.G.

G-32 **cAMP Signaling Pathway and Glycogen Metabolism in *Neurospora crassa*. A Preliminary Study**
Terrão, M. C., de Paula, R. M., Terenzi, H. F., Bertolini, M. C.

G-33 **Characterization of casein kinase 2 (CK2) activity in epimastigotes forms of *Trypanosoma cruzi* Colombiana strain.**
Souza, J.E.O.; Lima, A.K.C.; Lopes, A.H.C.S.; Silva-Neto, M.A.C. and Dutra, P.M.L.

G-34 **Heterologous expression and purification of active recombinant apyrase (NTPDase I) from *Trypanosoma cruzi*.**
M.S.Bastos, R. F. Santos, R. DeMarco, S. Verjovski-Almeida, J. L. R. Fietto

G-35 **Cloning and heterologous expression of two putative apyrases from *Leishmania major***
M. S. Amaral}, L. C. Crocco-Afonso, J. L. R. Fietto

G-36 **Comparison of *in vivo* methods for the evaluation of plant products on *Leishmania major* cells in culture in association with computational tools**
Costa, F. C., Nicoluci, R. P., Andricopulo, A. D., Rocha, W. C., Vieira, P. C. and Thiemann O.H.

G-37 **IDENTIFICATION OF A NOVEL TRIACYLGLYCEROL ACYLHYDROLASE OF TRICHOMONAS VAGINALIS AS A POTENTIAL CYTOLYTIC FACTOR**
Sandra E. Carvalho; Daniel Freitas; André M. Murad; Augusto S. Barbosa; Octávio L.Franco

G-38 **CLONING AND SEQUENCE ANALYSIS OF RAPD FRAGMENTS IN *Colletotrichum lindemuthianum***
Oliveira, M.C.; Araújo, E.F.; Queiroz, M.V.

G-39 **Analysis of soluble protein expression in *Trypanosoma cruzi* strains with distinct pathogenicity using two-dimensional gel electrophoresis**
C. Sodré; R. Souza; L. Lima; O. Fernandes

G-40 **Gamma Irradiation of *Paracoccidioides brasiliensis* for Vaccine Research**
Demicheli, M.C.; Reis B.S.; Góes, A. M. and Andrade, A. S. R.

G-41 **Evaluation of the Tyrosinase Activity in Highly Melanized Strain of *Aspergillus nidulans***
Cavallieri A. P., Lisboa H.C.F., Sponchiado S.R.P.

G-42 **Retrotransposon diversity in *Schistosoma mansoni*: identification of 18 new transcribed elements**
R. DeMarco, A.A. Machado, A. W. Bisson-Filho and S. Verjovski-Almeida.

G-43 **Lipid droplet-like particles promote heme aggregation in *Schistosoma mansoni* gut**
Corrêa Soares, JBR; Rumjanek,FD; Ferreira-Pereira,A; Oliveira,PL; Vannier-Santos, MA; Menezes, DM; Oliveira,MF

G-44 **Gp63 Metallopeptidase-like Activity in *Phytomonas françai*, *Crithidia deanei* and *C. guilhermei***
Fernanda A. Marinho, Lívia O. Santos, Fernanda M. Pereira, Felipe A. Dias, Alane B. Vermelho, Marta H. Branquinha, André L. S. Santos, Claudia M. d'Avila-Levy

G-45 **The *csnD-E* signalosome genes are involved in the *Aspergillus nidulans* DNA damage response**
Fagundes, M. R. von Z. K.; Lima, J. F.; Malavazi, I.; Savoldi, M.; Goldman, M. H. S.; Schwier, E.; Braus, G. H.; and Goldman, G. H.

G-46 **Proteomic analysis of an eIF5A conditional mutant in *Saccharomyces cerevisiae***
Maragno, A.L.G.C.; Thome, C.; Greene, L. J. and Valentini, S.R.

G-47 **Functional and Structural Characterization of the new eIF5A-Interacting Protein Lia1**
Cano, V.S.P. and Valentini, S.R.

G-48 **Identification of proteins that specifically associate with the double-stranded *Leishmania (L.) amazonensis* telomeres.**
C.B.B. Lira, F.V. Winck, J.C. Novello, C.H.I. Ramos, M.I.N. Cano

G-49 **Genomic Organization of Telomeric and Subtelomeric Sequences of *Leishmania (Leishmania) amazonensis***
F.F. Conte and M.I.N. Cano

G-50 **New Genetic Interactions Revealed Between *TIF51A* and *YPT1***
Frigieri, M.C.; João Luiz, M.V.S. and Valentini, S.R.

G-51 **Mutational analysis of yeast eIF5A**
Olhê, C.A.; Rangel, S.M.; Zanelli, C.F.; Apponi, L.H.; Frigieri, M.C. and Valentini, S.R.

G-52 **Optimised two-dimensional gel electrophoresis of *Trypanosoma cruzi* basic proteins**
Magalhães, A. D., Santana, J.M., Teixeira, A.R., Sousa, M.V., Martinez, J.P. and Ricart, C. A.O.

G-53 **Identification of Proteins Binding to the Regulatory STRE Element of the *gsn* Promoter. A Mass Approach**
Freitas, F. Z.; Terenzi, H. F.; Bertolini, M. C.

G-54 **FUNCTIONAL INTERACTION ANALYSIS BETWEEN YEAST Dys1 AND Pkc1**
Silveira, W. S.; Zanelli, C.F.; Valentini, S.R.

G-55 **Characterization of two *Leishmania* tryptophanyl-tRNA synthetases**
LEITE, N. R., RAGONE, F. L., ALFONZO, J.D. and THIEMANN, O. H.

G-56 **Molecular Characterization of *Trypanosoma cruzi* U2, U4, U5 and U6 snRNAs**
Ambrósio, D. L.; Cicarelli, R. M. B.

G-57 ***In silico* characterization of the 20S proteasome subunits of *Trypanosoma cruzi***
Oliveira CB, Barboza NR, Hangai NS, Silva NG, Lana M, Evangelista EA and Guerra-Sá R.

G-58 **Reconstitution of the ubiquitin/SUMO pathways in *Trypanosoma cruzi*.**
Pereira RV, Olmo RP, Bastos AQA, Borges CA, Leal TF, Guedes PMM, Bahia MT, Evangelista EA and Guerra-Sá R

G-59 **Molecular Cloning of the Pho85p-Like Protein Kinase in *Neurospora crassa***
Avaca, J. S.; de Paula, R. M.; Freitas, F. Z.; Terenzi, H. F.; Bertolini, M. C.

G-60 **Influence of casein kinase 2 in *Leishmania braziliensis*-macrophages interaction process**
Brito, A.M., Silva-Neto, M.A.C., Meyer-Fernandes, J.R., Lopes, A.H.C.S. and Dutra, P.M.L.

G-61 **Platelet-activating factor stimulates the secretion of casein kinase 2 and macrophage infection by *Leishmania tropica*.**
Dutra, P.M.L., Guerra, R.J.A., Silva-Neto, M.A.C., Meyer-Fernandes, J.R. and Lopes, A.H.C.S.

G-62 **MULTIPLE APPROACHES FOR IDENTIFICATION OF BABESIA BOVIS PROTEINS INVOLVED IN ERYTHROCYTE INVASION**
Yatsuda A.P.; Franssen F.; Bakker N.; Ham HJ.; Lee D.; deVries E.

G-63 **Studies on the Accumulation of Trehalose and Glycogen in Industrial Yeasts: Influence of sugars and the structural complexity of nitrogen source**
Batistote, M., and Ernandes, J.R.

G-64 **Uncovering NOTCH, PRESENILIN and ICTHY mRNAs during the life cycle of Schistosoma mansoni.**
Magalhães, L.G; Castro-Borges,W; Guerra- Sá,R; Brigatto, O.M; Macedo, E.A and Rodrigues,V.

G-65 **Protease expression in *Leishmania braziliensis*: a comparative study between infective and non-infective strains.**
Lima, A.KC.; Souza, J.E.O.; Mignaco, J.A.; Souza, A.L.S. and Dutra, P.M.L.

G-66 **BIOLOGY OF YEAST [PSI] STRAINS UNDER PRESSURE**
Palhano, Fernando L.S., Bravim, Fernanda, Foguel, Débora and Fernandes, Patricia M. B.

G-67 **TREHALOSE METABOLISM IN THE YEAST *SACCHAROMYCES CEREVISIAE* SUBMITTED TO HIGH HYDROSTATIC PRESSURE**
Silva, Carlos A. J., Freitas, Jéssica M., Palhano, Fernando L.S., Orlando, Marcos T. and Fernandes, Patricia M. B.

G-68 **Nop18p, an essential nucleolar protein, is involved in the late steps of pre-rRNA processing in *Saccharomyces cerevisiae***
D.C.Granato; F. A.Gonzales; J. S.Luz; C. C.Oliveira

G-69 **Comparison of global gene expression pattern of pkc1 δ and wild type W-303 *Saccharomyces cerevisiae* strains by DNA microarray.**
Totola,A.H.; Costa, D.A.; Koide, T.; Gomes, S.L.; Fietto, L.G.; Fietto, J.L.R.; Castro, I.M.; Brandao, R.L.

G-70 **Hydrostatic Pressure induces transcription via the stress response element (STRE) of *Saccharomyces cerevisiae***
T. Domitrovic; P. M. Lellis; P. M. B. Fernandes and E. Kurtenbach

G-71 **The Inositol polyphosphate multikinase Arg82p is involved in the metabolism of alternative carbon sources in *Saccharomyces cerevisiae*.**
Carvalho,F.M.; Tótola, A.H.; Costa, D.A.; Fietto, L.G.; Fietto, J.L.R.; Castro, I.M.; Brandão, R.L.

G-72 **Proteome mapping of the human pathogen *Leishmania (Viannia) braziliensis* and differentiation of strains related to distinct clinical phenotypes**
Patricia Cuervo; Magno Junqueira; Rafael Góngora; John Walker; Gabriel Grimaldi Jr.; Gilberto Domont; Octavio Fernandes; Elisa Cupolillo

G-73 **CHARACTERIZATION OF THE GENE THAT CODIFIES THE RIBOSOMAL L17 (BCL17) PROTEIN IN *BLASTOCRITHIDIA SP***
Manzine, L. R., Silva, M.T.A, Thiemann, O. H., Cicarelli, R. M. B.

G-74 **Revealing the mechanism of depolarizing compounds-induced activation of plasma membrane H^+-ATPase in the yeast *Saccharomyces cerevisiae***
Pereira, M.B.M.; França, M.M.;Fietto, L.G.;Fietto, J.L.R.; Castro, I.M. and Brandão, R. L.

G-75 **Characterization of Deubiquitinating enzymes Dub7 and Dub 12 related genes in Schistosoma mansonirnrn**
Andreolli, A.B.P.;Cabral F. J.; Castro Borges W;.Guerra, Sá.R; Rodrigues, V.

G-76 **Role of Snf3 p in calcium metabolism and sugar-induced activation of plasma membrane H^+ -ATPase in the yeast *Saccharomyces cerevisiae***
Cardoso, A. S.; Tropia, M.J.M.; Fietto, L.G.; Fietto, J.L.R.; Castro, I.M. and Brandão, R.L.

G-77 **Comparative Analysis of Proteins of the Cuticle of Males and Females of *Litomosoides chagasfilhoi Nematoda: Filarioidea* by Electrophoresis 1-D and Proteomics**
Moraes Neto, A.H.A. de; Evaristo, J.A.M.; Retamal, C.A.; Chapeaurouge, A.; Alves, E.W.; De Souza, W.

G-78 **Increase in cyclic AMP levels regulates the expression of the genes encoding pectin lyase in the *Penicillium griseoroseum* M03 mutant**
Reis, K. C. P.; Gonçalves, D. B.; Queiroz, M. V. and Araújo, E. F.

G-79 **Identification of cis-elements involved in the regulation of expression of the genes encoding polygalacturonases, *pgg*1 and *pgg*2, from *Penicillium griseoroseum***
Ribeiro, J.B.; Ribon, A.O.B.; Gonçalves, D.B.; Queiroz, M.V. and Araújo, E.F.

Biotecnologia

H-1 **Potentiometric interaction evaluation of *Cratylia mollis* seed lectin (Cramoll) immobilized on Nafion nanopores and different glucose concentrations**
Brito, A.C.L.; Correia, M.T.S.; Souza; S.R. and Coelho, L.C.B.B.

H-2 **New technology for magnetic controlled insulin delivery from alginate beads for use in implants**
Finotelli, P.V.; Sampaio, D.A.; Rocha-Leão, M.H.; Rossi, A.M.

H-3 **Potentiometric Analysis of *Cratylia mollis* Lectin-Carbohydrate Interactions Using a Polyaniline Revested Pt-Electrode**
Junino, I.R., Freitas, K.C.S. de, Correia, M.T.S., Souza, S.R. and Coelho, L.C.B.B.

H-4 **CARACTERIZATION AND BIOLOGICAL ACTIVITIES OF POLYPHENOLIC COMPOUNDS FROM *Myracrodruon urundeuva* BARK**
Sá, R.A.; Gomes, F.S.; Napoleão, T.H.; Santos, N.D.L.; Argolo, A.C.C.; Gusmão, N.B.; Xavier, H.S.; Coelho, L.C.B.B.; Paiva, P.M.G.; Bieber, L.W.

H-5 **STUDIES OF KINETIC PARAMETERS OF TRYPSIN IMMOBILIZED ON FERROMAGNETIC LEVAN**
Maciel, J.C.; Cajueiro, K.R.R.; Calazans, G.M.T.; Carvalho Jr., L.B.; Silva, M.P.C.

H-6 **Microemulsion for intravenous delivery system: association between amphotericin B and lipid components**
Souza, L.C.; Filippin, F.B.; Maranhão, R.C.

H-7 **SOLID PHASE ORGANIC SYNTHESIS OF NOVEL DNA GYRASE INHIBITORS WITH AZOLE RING DERIVATIVES**
Saulo Santesso Garrido; Eliane Trovatti; Marilia Valli and Reinaldo Marchetto

H-8 **EXPRESSION, PURIFICATION AND CHARACTERIZATION OF RECOMBINANT Sm14 FROM *Schistosoma mansoni* GENETICALLY FUSED TO CTB.**
ROMAN-RAMOS H.; Arêas APM; Ramos CRR; Tendler M and Ho PL.

H-9 **Advantages of Liposome encapsulation of Prilocaine, Lidocaine and Mepivacaine**
Cereda, Cíntia M. S.; Araújo, Daniele R.; Brunetto, Giovana B.; and de Paula, E.

H-10 **PURIFICATION OF SURFACE EXPOSED PROTEINS OF *Leptospira interrogans***
Atzingen, M.; Gamberini, M.; Abreu, P.A.E.; and Nascimento A.L.T.O.

H-11 **Production of HPV-16 L1 Virus-Like Particles by recombinant *Lactobacillus casei* as a Mucosal Prophylactic Vaccine Model using Lactic-Acid Bacteria**
Aires, K.A.; Oliveira, M.L.S.; Cianciarullo, A.M.; Carneiro, S.; Villa, L.L.; Boccardo, E.; Perez-Martinez, G.; Ho, P.L.

H-12 **Expression of the Pneumococcal Surface Protein A (PspA) from *Streptococcus pneumoniae* in lactic acid bacteria for the development of live mucosal vaccines**
Ivana Barros Campos; Maria Leonor S. Oliveira; Karina Araújo Aires; Eliane Namie Miyaji; Vicente Monedero; Gaspar Perez-Martínez; Luciana Cezar Cerqueira Leite; Paulo Lee Ho.

H-13 **PURIFICATION OF SPECIFIC ANTIBODIES AGAINST METHICILLIN-RESISTANT *STAPHYLOCOCCUS AUREUS***
Santos, D.V.; Fonseca, I.O.; Murad, J.C.; Senna, J.P.M.; Roth, D.M.; Basso, L.A.; Machado, D.C.; Santos, D.S.

H-14 **Testing a new pneumococcal conjugate vaccine: capsular polysaccharide serogroup 23F and PspA.**
Csordas,F.C.L., Perciani, C., Cabrera-Crespo, J., Sbrogio-Almeida M. E., Tanizaki, M. M.

H-15 **TEST OF PORCINE PULMONARY SURFACTANT CONTAINING FORMULATION AS AN ADJUVANT IN SEROGROUP B ANTI-MENINGOCOCCAL VACCINE.**
Carmo, T. S.; Perciani, C. T.; Dias, W. O.; Schenkman, R.P.F.; Kubrusly, F.; Tanizaki, M.M.

H-16 **Cloning and Expression of a Synthetic Human Leukaemia Inhibitory Factor (hLIF) Gene in *Escherichia coli***
Novo, J.B.; Oliveira, M.L.S. and Ho, P.L.

H-17 **Antitumor and apoptosis inducing activity of L-Amino Acid Oxidase from Bothrops moojeni "*in vitro*"**
Malta-Neto, N.R.; Stabeli, R.G.; Marcussi, S.; Ticli, F. K.; Sant'Ana, C.D.; Giglio, J. R.; Sampaio, S. V.; Oliveira, E.B.; Nomizo, A.;Soares, A.M.

H-18 **TOXICITY OF FUMARPROTOCETRARIC ACID-LOADED NANOCAPSULES PREPARED WITH OIL-IN-WATER MICROEMULSION**
Santos, N.P.; Ferraz, M.S.; Simonetti, A.C.; Wanderley, M.S.O.; Pereira, E.C.; Silva, N.H.; Tabosa do Egito, E.S.; Pontes-Filho, N.T.; Santos-Magalhães, N.S.

H-19 **Cytotoxicity of Doxorubicin encapsulated in Con A conjugated-liposomes as oncochemoterapeutic specific-site**
H. M. L. Rolim-Santos, M. P. Siqueira, F. B. Queiroz, M. C. B.Lira, R. M. Souto Maior, S. C. Nascimento and N. S. Santos-Magalhães.

H-20 **Cloning, expression and immunochemical analysis of the recombinant sphingomielinase-like protein (LIC 11040) from *Leptospira interrogans***
Carvalho, E. and Ho, P. L.

H-21 **Cytotoxicity Activity of Fumarprotocetraric Acid Encapsulated into PLGA-nanocapsules**
Santos, N.P.; Simonetti, A.C.; Ferraz, M.S.; Pereira, E.C.; Silva, N.H.; Honda, N. K.; Tabosa do Egito, E.S.; Santos-Magalhaes, N.S.

H-22 **INTERACTIONS STUDIES OF PEPTIDE MODELS OF SUBUNIT A OF *Escherichia coli* DNA GYRASE WITH CcdB PROTEIN**
Daniele Côrtes Carvalho; Eliane Trovatti; Reinaldo Marchetto

H-23 **Cloning and Constitutive Heterologous Secretion of Functional Pea (*Pisum sativum*) defensin *Ps*d1**
PEREIRA, I. B. and KURTENBACH, E.

H-24 **Biotransformation of budlein A by *Aspergillus terreus* increased the cytotoxic activity**
Arakawa, N.S.; Ribeiro, P.H.; Nomizo, A.; Da Costa, F.B.; Said, S.

H-25 **Histopathogical evaluation of the treatment with free and liposome-loaded polysaccharide of *Anacardium occidentale* against experimental schistosomiasis**
Souza-Araújo, F. V.; Araújo, R. V. S.; Melo-Júnior, M. R.; Iacomini, M.; Santos-Magalhães, N. E.; Carneiro-Leão, A. M. A.

H-26 **Improvement on Original Catlin Medium for the Production of Outer Membrane Vesicles (OMV) from Neisseria meningitidis B.**
Santos, S., Baruque-Ramos, J.; Carmo, T.S., Novo, A.M.F.S., Tanizaki, M.M., Schenkman, R.P.F.

H-27 **Purification and Partial Characterization of Molecular Forms from *Cratylia mollis* Lectin Using Levans**
Angeli, R.; Maciel, J. C.; Paz, N. V. N.; Alves, G. C.; Araújo, F. F. B.; Carvalho Jr., L. B.; Calazans, G. T.; Silva, M. P. C.; Paiva, P. M. G.; Coelho, L. C. B. B. and Correia, M. T. S.

H-28 **Reversed Micellar System versus Salt Fractionation to Purify Acrocomia intumescens Root Lectin**
Nascimento, C. O.; Angeli, R.; Coelho, L. C. B. B.; Correia, M. T. S.; Carneiro-da-Cunha, M. G.

H-29 **Production of Enzymes by *Candida buinensis* Using as Substrate *Opuntia ficus-indica***
Albertini, A.V.P., Viana, D. A., Moreira, K. A., Cavalcanti, M. T. H. Martinez, C. R. S., Porto, A. L. F., Lima Filho, J. L.

H-30 ***Eugenia malaccensis* Seed Lectin (EmaL): Antimicrobial Activity Evaluation**
Brustein, V. P.; Coelho, L. C. B. B.; Campos-Takaki, G. M.; Carneiro-da-Cunha, M. G. and Correia M. T. S.

Título dos Resumos

H-31 ***Moringa oleifera* ANTIOXIDANT ACTIVITY FROM ETHANOLIC AND SALINE EXTRACTS**
Santos, A. F. S.; Argolo, A. C. C.; Xavier H. S.; Paiva, P. M. G. & Coelho, L. C. B. B.

H-32 **Interaction of Bauhinia monandra leaf lectin with an endophytic bacterium isolated from leaves: detection by an electrochemical system**
Pimentel. J.C., Ramos, S.A.F.; Souza, J.E.G., Silva, M.B.R.; Souza, S.R. and Coelho, L.C.B.B.

H-33 **Demonstration of the interaction of human LDL with the tegument of adult male worm of *Schistosoma mansoni* by scanning electron microscopy**
Pereira, A.S.A.; Padilha, R.J.R.; Viegas, L.F.W.; Silva, S.S.; Chaves, M.E.C.

H-34 **Use of immobilized *Candida antarctica* lipase (NOVOZYM 435) for Biodiesel fuel production from Castor oil.**
Hurtado, C. R.; Rampin, M. A.; Dabdoub, M. J.; Ciancaglini, P.

H-35 ***Eugenia jambolana* Seeds: Lectin Partial Purification and Evaluation of Phenolic Components**
Paz, N. V. N.; Angeli, R.; Xavier, H. S.; Argolo, A. C. C.; Coelho, L. C. B. B.; Correia, M. T. S.

H-36 **Chitin Purification and Partial Characterization of *Caesalpinia ferrea* Pod Lectin**
Ximenes, N. C. A, Coelho, L. C. B. B., Carneiro-da-Cunha, M. G. and Correia, M. T. S.

H-37 **Two novel screening assays based on *HIS3* activation and culture growth in liquid medium**
Queiroz, E. M. and Ortega, J. M.

H-38 **EXTRACTION AND BACK-EXTRACTION OF AN ALKALINE PROTEASE FROM INTESTINE OF NILE TILAPIA (*Oreochromis Niloticus*) USING REVERSED MICELLES**
Lima, C.A.; Carneiro-da-Cunha, M.G.

H-39 **A Simple and Rapid Method to Improve the Lithium Acetate-mediated Transformation of *Kluyeromyces lactis***
SANTOS,V.C.; MACEDO, C.S.; PASSOS, F.M.L.

H-40 **Human glandular kallikrein hK2. Expression, purification and crystallization.**
Calixto, V.C.; Pesquero, J.L.; Deperthes, D.; Pesquero J.B., Araújo, R.C. Chagas, J.R.

H-41 **Primary tissue culture of venom glands of *Phoneutria nigriventer* (the armed spiders)**
Thiago Venuto; Luciana M. Silva; Campolina, S.S.; Pimenta, P.F.P.; Diniz, M.R.V.; Fortes-Dias, C. L.

H-42 **HYDROLYSIS OF SUCROSE BY INVERTASE IMMOBILIZED ON POROUS SILICON**
Medeiros, G. M., Maia, M.M.D., Vasconcelos, E. A.; Dutra, R.F.; Lima Filho, J.L.

H-43 **Antiophidian properties of Jacaranda decurrens aqueous extract**
Cambraia, R. S.; Malosso, M. G.; Marcussi, S.; Fernandes, V. C.; Sant'Ana, C. D.; Mazzi, M. V.; Pereira, A. M. S.; Giglio, J. R.; Soares, A. M.

H-44 **Snake venom inhibitors isolated from snake plasmas**
Mabtum, F. D.; Marcussi, S.; Fernandes, V. C.; Silveira, L. B.; Cambraia, R. S.; Sant'Ana, C. D.; Stábeli, R. G.; Giglio, J. R.; Soares, A. M.

H-45 **Production of LACK antigen from Leishmania chagasi in transgenic tobacco (*Nicotiana tabacum* L.) plants**
José S. Gomes-Filho; Alyne O. Silva; Camilla O. Araújo; Maria C. Ornelas-Nunes; Irapoan B. dos Santos Junior; Eduardo L. Rodrigues; Ekkehard Hansen

H-46 **Production of hepatitis B virus antigen HBsAg in roots and leaves of transgenic carrot (*Daucus carota* L.) plants**
Márcia S. Pereira; Ziellen P. Lima; Eduardo A. Gamosa; Pedro Rocha; Milton Kanashiro; Elio H. Baba,; Tânia Jacinto; Ekkehard Hansen

H-47 **Effect of Polyurethane Treatments on Covalent Immobilization of Invertase**
Cadena, P.G.; Oliveira, M.I.P.; Jeronimo da Silva, R.A.; Silva, R.A.; Lima Filho, J.L.; Pimentel, M.C.B.

H-48 **Amplification, Cloning, and Sequence Determination of the *Yicp* Adenine Deaminase-Encoding Gene from *Escherichia coli***
Schwanke, R. C.; Silva, R. G.; Fonseca, I. O.; Basso, L. A.; and Santos, D. S.

H-49 ***Aspergillus fumigatus* as producer of insecticides proteins with specificity toward *Callosobruchus maculatus***
Pereira, J. L.; Franco, O. L. and Noronha, E. F.

H-50 **Biochemical characterization of cell wall degrading enzymes produced by *Trichoderma harzianum* isolates from Brazil Cerrado soil.**
Lopes, A.P.S.; Pascotto, M.P.; Franco, O. L.; Ulhoa, C.J. and Noronha, E. F.

H-51 **Differential proteomical analyses of *Metharizium anisopliae* secretion**
Mascarin, P. O. M., Franco, O. L., Bloch, C. Jr., Melo,J.A.T. and Noronha, E. F.

H-52 **Over-Production of Recombinant Human Interferon β-1 in *Escherichia coli***
Villela, A. D.; Renard, G.; Fonseca, I. O.; Basso, L. A.; Santos, D. S.

H-53 **Molecular Assessment of Fungal Diversity in Cerrado and Pasture Soils through 18S rDNA**
Castro, A. P.; Quirino, B. F. and Kruger, R. H.

H-54 **Lipid Microspheres as antigenic proteins carrier: building the system**
Santos, Luiz Eduardo dos Reis; Daghastanli, Katia Regina Perez; Ciancaglini, Pietro

H-55 ***In Vivo* Investigation after Phyloseptin 1 Injection, an Antimicrobial Peptide from Skin Secretion of *Phyllomedusa hypochondrialis***
Kückelhaus, S.; Leite, J. R.; Boch Jr, C.; Tosta, C. E.

H-56 **Biochemical characterization of antifungal activities from *Trichoderma harzianum* isolates from Brazil Cerrado soil**
Lopes, N.S.P., Campos, M. L.; Franco, O.L., Ulhoa, C.J. & Noronha, E.F.

H-57 **Detection of Chronic Myeloid Leukemia by B2A2 cDNA sequence extracted from the Philadelphia chromossome using a QCM biosensor system**
Santos, R.B.S.; Lins, I.S.M.P.; Dutra,R.A.F.; Melo, R.A.M.; Silva, J.J.B.; Lima Filho, J.L.

H-58 **Development of novel synthetic organic compound with lethal activity toward *Trichonomas vaginalis***
Fernandes, F.F.; Ceripes, V.F.; Corrêa, C.L.; Rodrigues, J.C.; Carvalho, S.E.S.; Romeiro, L.A.S.; Nascente, L.C.; Simões-Barbosa, A.M.; Franco, O.L.

2-Resumos.pmd 58 6/6/2005, 12:38

H-59 ***In vivo* screening of novel natural compounds with lethal activity toward *Trichomonas vaginalis***
Corrêa, C.L.; Rodrigues, J.C.; Ceripes, V.F.; Fernandes, F.F.; Carvalho, S.E.S.; Romeiro, L.A.; Nascente, L.C.; Simões-Barbosa, A.; Fortes, C.C.; Castro, C.F.S.; Franco, O.L.

H-60 **Efficient sucrose hydrolysis by a *Saccharomyces cerevisiae* strain overexpressing invertase**
Dário, M.G.; Batista, A.S.; Badotti, F.; Herberts, R.A.; Miletti L.C.; Stambuk B.U.

H-61 **Brewing yeast vitality: its evaluation through uptake and catabolism of a maltose analog.**
Herberts, R. A.; Dário, M. G.; Alves-Jr., S. L.; Miletti, L. C.; Stambuk, B. U.

H-62 **Development of a Protocol for Purification of Tyrosinase from *Lentinula boryana***
Moure, V. R.; Faria, R. O.; Mitchell, D. A. and Sassaki, G. L.

H-63 **PHYTOCHEMICAL EVALUATION AND ANTIOXIDANT/ MICROBIOLOGICAL ACTIVITIES OF SALINE AND METHANOLIC EXTRACTS FROM HEARTWOOD OF *Myracrodruon urundeuva* (AROEIRA-DO SERTÃO)**
Sá, R.A.; Gomes, F.S.; Napoleão, T.H.; Santos, N.D.L.; Argolo, A.C.C.; Gusmão, N.B.; Xavier, H.S.; Coelho, L.C.B.B.; Paiva, P.M.G.; Bieber, L.W.

H-64 **Use Of Powdered Milk As A Blocking Method In The Development Of Biosensors**
Lins, I. S. M. P.; Ramos, V. L.; Dutra, R. F.; Lima-Filho, J. L.; Maia, M. M. D.

H-65 **Stirring Effect in Single Cell Protein Production by *Candida utilis* on Hydrolyzed Shrimp Wastern**
Gomes, E.P.; Arruda M. S.; Wiggers, F.N.; Martins, D.B.G.; Lima Filho, J.L

H-66 **Real Time PCR for Genotyping of M BL-2 Gene Using Rotor Gene RG 3000**
Guimarães, R. L.;Brandão, L. A. C.; Souza, P. R. E; Martins, D. B. G.; Crovella, S.; Arraes, L. C.; Lima Filho, J. L.

H-68 **THE USE OF PULMONARY SURFACTANT AS ADJUVANT IN ACELLULAR PERTUSSIS AND TETANUS VACCINES**
D.S.P.Q. Horton; W.O.Dias; V.C.B.Cainelli Gebara; F.S. Kubrusly; D.Iourtov; A.L.T.O. Nascimento; P.A.E. Abreu; M.I.Esteves; W.Quintilio; N.Furuyama; L.Risoléo and I. Raw

H-69 **Immobilization and stabilization of enzymes using the glutaraldehyde chemistry**
G.M. Dellamora-Ortiz; N. Alonso-Morales; L. Betancor; F. López-Gallego; A. Hidalgo; C. Mateo; J. M. Guisán; R. Fernández-Lafuente

H-70 **ANTIFUNGAL ACTIVITY OF *Pothomorphe umbellata* EXTRACTS.**
PILLA, C. M. P.; BENADUCCI, T.; SCORZONI, L.; SANTANA, J. C. O.; MAZZINI, J. A.; LEITE, F.S.; ALMEIDA, A. M. F.; JANUARIO, A. H.; FRANÇA, S. C.; PIETRO, R. C. L. R.

H-71 **Comparison of thermal characteristics of β-glucosidase from a mesophilic rnAureobasidium pullulans and a thermophilic *Thermoascus aurantiacus***
Roberto da Silva; Rodrigo Simões Ribeiro Leite; Eleni Gomes

H-72 **Recovery of protease produced by *Candida buinensis* using aqueous two-phase systems PEG-Phosphate Salt**
Silva, E. P; Viana, D. A.; Moreira, K. A.; Porto,T.S; Lima-Filho, J. L.; Porto, A. L. F.

H-73 **COLORIMETRIC ASSAYS OF THE ALCOHOL DEHYDROGENASE FROM DRY BAKER'S YEAST: ETHANOL DETERMINATION IN WINES.**
M. F. S. Peres J. P. Zanon and E. A. L. Gáttas

H-74 **Cloning, expression and purification of two lipoproteins of *Leptospira interrogans***
Abreu PAE; Vieira ML; Watanabe MM and Nascimento ALTO

H-75 **PRELIMINARY STUDIES OF ANTIMICROBIOTIC ACTIVITY OF *Chromobacterium violaceum* EXTRACTS**
ALMEIDA, M. F.; IANNUZZI, M.L.; CASTRO, D.B.; SOTERO-MARTINS, A.

H-76 **Enzymatic hydrolysis of laminarin and botryosphaeran using β-1,3-glucanases produced by *Botryosphaeria rhodina* and *Trichoderma harzianum***
Barbosa,A.M.; Giese,E.C.; Covizzi,L.G.; Dekker,R.F.H.; Fonseca,E.A.I.; Monteiro,N.K.; Corradi da Silva,M.L.

H-77 **Microencapsulation of diphtheria and tetanus vaccine within PLGA microspheres: *in vivo* assays**
W. Quintilio, C. S. Takata, O. A. Sant'Anna, M. H. B. Costa

H-78 **Immobilization of a Commercial Amylase in *Luffa operculata* Fibers.**
R. R. Morais; A. M. Pascoal and K. F. Fernandes

H-79 **CHARACTERIZATION OF DIGENEASIDE-VANADIUM COMPLEXES AND THEIR CYTOTOXICITY ON MACROPHAGES**
Sérgio D. Ascêncio; Ana L. R. Mercê; Guilhermina R. Noleto; Maria Benigna M. Oliveira; Maria Eugênia R. Duarte and Miguel Daniel Noseda

H-80 **Solvation-epr approach of different amine loaded and cross-linked resins: application for the synthesis and purification of peptides**
Silva, E.H.; Lopes, D.D.; Poletti, E.F.; Schreier, S.; and Nakaie, C. R.

H-81 **CLONING, EXPRESSION AND PURIFICATION OF FOUR NEW LIPOPROTEINS OF *Leptospira interrogans***
Neves, F.O.; Abreu, P.A.E. and Nascimento A.L.T.O.

H-82 **Biodegradative activities expressed by the white-rot basidiomycete *Ceriporiopsis subvermispora* on different substrates.**
Monte, J.R.; Milagres, A.M.F.

H-83 **Galactose Oxidase Production by *Fusarium graminearum* Isolated in the South Region of Brazil and a Biochemical Comparative Analysis of the Enzyme from Four Different Isolates**
Gasparotto, E.P.L.; Abrão, S.C.C.; Inagaki, S.Y.; Tessmann, D.J.; Kemmelmeier, C.; Barbosa-Tessmann, I.P.

H-84 **Galactose Oxidase from *Fusarium acuminatum*: Production and Partial Characterization**
Alberton, D.; Peralta, R.M.; Barbosa-Tessmann, I.P.

H-85 **Isolation of a Porcine Protease Inhibitor like Bovine Aprotinin**
Dias, S.C.; Netto, S.L.; Raw, I.; Iourtov, D. and Kubrusly, F.S.

H-86 **DNA GYRASE ACTIVITY INHIBITION BY PEPTIDE ANALOGUES OF CcdB PROTEIN**
Eliane Trovatti; Saulo S. Garrido; Daniele Côrtes Carvalho; Reinaldo Marchetto

Título dos Resumos

H-87 **Production of Recombinant Myoglobin for Use in Gas Permeation Membranes**
H.C. Ferraz, O.B. Martins, T.L.M. Alves, C.P. Borges and J.S. Olson.

H-88 **Secretomic analysis of *Metarhizium anisopliae* in the presence of *Callosobruchus maculatus* exoskeleton**
Andre M. Murad; Thaina A. Lima; Raul A. Laumman,Eliane F. Noronha; Octavio L. Franco

H-89 **Spectrophotometric Biosensor for Flow Injection Analysis of Glucose on Real Samples.**
F. M. Lopes and K. F. Fernandes.

H-90 **Serine Proteinase (Trypsin) Inhibitor from Equine Seminal Plasma**
Vasconcelos, A.B.; Oliveira, J,S; Santoro, M.M; Campos Vale. M.G; Xavier, I.L.G.S; Varago, F.C; Lagares, M.A.

H-91 **Specific primer design for molecular detection of aflatoxigenic strains of *Aspergillus flavus*.**
Miller, R.N.G.; Vidigal, B.S.; Midorikawa, G.E.O.; Ribas, S.M.C.; Freire, F.

H-92 **Identification of NBS-LRR type Resistance Gene Analogs in *Musa acuminata ssp. Burmannicoides* var. Calcutta 4**
Passos, M.A.N.; Bertioli, D.J.; Pappas Jr, G.J.; Miller, R.N.G.

H-93 **Adjuvant Activity of Two Isolated Proteins from *Bordetella pertussis*: Humoral Immune Response and Immunoglobulins Isotypes**
Risoléo, L.; Lopes, A.P.Y.; Ferreira, V.R.F.; Dias, W.O.; Quintilio, W.; Raw, I.; Cainelli Gebara, V.C.B.

H-94 **IMMUNOGENICITY OF A DLC PARALOG FROM *Schistosoma mansoni* IN MICE. CHALLANGE ASSAY TO INVESTIGATE PROTECTION AGAINST CERCARIA INFECTION**
Rocha MO, Miyasato PA; Kawano T, Cainelli Gebara VCB, Dias WO, Martins EA

H-95 **Effect of ethidium bromide on the growth and production of laccases by the fungus *Botryosphaeria rhodina*.**
Covizzi, L.G.; Giese, E.C.; Barbosa, A.M.; Garcia, J.E.; Dekker, R.F.H.

H-96 **Immobilization of Commercial Resamilase onto Sillanized Glass Capillaries.**
A. M. Pascoal; P. O. Santiago; R. R. Morais and K. F. Fernandes

H-97 **Quantification of lipopolysaccharide (LPS) in Vaccines by HPAEC-PAD**
Conceição, C.M.; Silva, F.S.Q.; Silva Júnior, J.G. Jessouroun, E.; Fernandes R.P.; Pereira, S.; Ramos, D.; Magalhães, A.

H-98 **Studies about the schistomicidal activity of the *Cratylia mollis* lectin**
MELO, C. M. L.; ARAÚJO, R. V. S.; BEZERRA, C.; JÚNIOR, M. R. M.; ARAÚJO, F. F. B.; COELHO, L. L. C. B. B.; CORREIA, M. T. S. & CARNEIRO-LEÃO, A. M. A.

H-99 **Development of *Pseudomonas* sp. and the fungi *Geotrichum candidum*, and *Phanerochaete chrysosporium* on agrochemicals and efluent of sugar-alcohol industry**
QUEISSADA, D.D.; PEROVANO FILHO, N.; ROCHA, C.C.L.; LOPEZ, A.M.Q.

H-100 **Low expression of MRP1/GS-X pump ATPase in lymphocytes of Walker 256 tumor-bearingrnrats is associated with cyclopentenone prostaglandin accumulation and cancer immunodeficiency.**
Rosa, T.G; Angela Kolberg, A.; Minéia Taíse Puhl, M.T.; Scola, G.;Janner. D.R;Maslinkiewicz,A.;Lagranha,D.J;Bittencourt, P.I.H.

H-101 **The use of PVA-PANIG composite for affinity chromatography application**
Caramori, S.S.; Beltrão, E.; Fernandes, K.F.;Carvalho Jr, L.B.

H-102 **Cashew apple commercial juices: ascorbic acid and other physicochemical parameters variation**
C.Q. Pereira; F.C. Lavinas; M.L.M. Lopes; V.L.Valente-Mesquita; G.O.Paiva-Silva

H-103 **ANALYSIS OF THE GENETIC VARIABILITY OF 11 MICROSATELLITE MARKERS IN BRAZILIAN GUZERA CATTLE (*Bos indicus*)AFTER COMPARISON OF THREE DIFFERENT DNA EXTRACTION PROTOCOLS**
Cervini, M., Mortari, N., Henrique-Silva, F., Matheucci Jr., M.

H-104 **DELETION OF PUTATIVE *ROX1* GENE IN THE YEAST *Kluyveromyces lactis* AND EXPRESSION ANALYSIS OF DEPENDENT *KIROX1* GENES**
MACEDO, C. S.; HARAMI, T.; BAO, W.; BOLOTIN-FUKUHARA, M.; PASSOS, F. M.

H-105 **Intestine protease from Nile tilapia (*Oreochromis niloticus*, Chitralada strain) as potential additive in laundry industry**
Mendes, C. M.; Oliveira, M. M. M.; Mayer, C.; Porto, C. S.; Porto, A. L. F.; Carneiro-da-Cunha, M. G.; Carneiro-Leão, A. M. A.

H-106 **Isolation and characterization of *Saccharomyces cerevisiae* strains from cachaça distilleries in the Minas Gerais state - Brazil**
Oliveira, V. A.; Vicente, M. A.; Coutrim, M. X.; Fietto, L.G. and Brandão, R. L.

H-107 **Complementation of *ROX1* deletion gene on *Saccharomyces cerevisiae* by the putative *ROX1*} gene of *Kluyveromyces lactis*.**
MACEDO, C.S.; DINIZ, R.H.S.; HARAMI,T., BOLOTIN-FUKUHARA, M.and PASSOS, F. M.

H-108 **Spectroscopy characterization of the major components of Photogem extregistered**
Sanchez, M.A.A.; Perussi, J.R.; Imasato, H.

H-109 **Deletion of the *Saccharomyces cerevisiae AGT1* gene renders cells incapable of maltotriose fermentation**
Alves-Jr., S. L.; Hollatz, C; Herberts, R. A.; Miletti, L. C.; Stambuk, B. U.

H-110 **IMPROVEMENT OF A MATHEMATICAL MODEL DESCRIBING THE KINETICS OF GROWTH OF RHIZOPUS ORYZAE SUBJECTED TO TEMPERATURE VARIATIONS**
Suzuki, R. S.; Viccini, G.; Barga, M. C.; Dalsenter, F. D. H.; Krieger, N.; Mitchell, D. A.; Sassaki, G. L.

H-111 **Three-Step Purification of $F(ab')_2$ Fragment**
Murad, J.C.; Santos, D.V.; Silva, R.G.; Machado, D.C.; Basso, L.A. and Santos, D.S.

H-112 **Inoculum preparation method effects on *Bacillus thuringiensis* var. *israelensis* growth and sporulation**
Rodrigues, R.C.; Russo, E.S.; Ramada, J.S.; Lemos, F.J.A; Berbert-Molina, M.A

H-114 **Development of Two New Multiplex for Individual Identification of Ostrichesrnrn**
A. Medaglia, M. Cervini, F. Henrique-Silva,E. Matheucci Jr.

H-115 **A Simple Experiment to Product b-Glucan in Permeabilized Glycogen-free Yeast Cells**
Ferreira, T.F.; Coelho, M.A.Z.; Rocha-Leão. M.H.M.

2-Resumos.pmd 60 6/6/2005, 12:38

H-116 **CAROTENOIDS PIGMENTS FROM SHRIMP PROCESSING WASTE.**
SANTOS, D.S.; CAHÚ, T.B.; SILVA, M.P.C.; SILVA, N.H.; CARVALHO Jr, L. B.; & BEZERRA, R. S.

H-117 **ISOLATION AND CHARACTERIZATION OF CARBOHYDRATES PRESENT IN MELXI® PHYTOTHERAPIC SYRUP**
C.M.O.Ferreira; M.L.Vasconcelos, R.A. Sá, N. H. Silva, J. L. L. Filho, M. C. B. Pimentel and M. P. C. Silva

H-118 **Stability and Properties of Tyrosinase from *Lentinula boryana***
Faria, R. O.; Moure, V. R.; Mitchell, D. A.; Sassaki, G. L.

H-119 **Multiple protein forms of Lignin peroxidase (LiP) from *Streptomyces viridosporus* T7A**
Nascimento, H.J., Bon, E.P.S.,Gottschalk, L.M., Andrade, C.M., and Silva Junior, J.G.

H-120 **Real Time PCR For Genotyping of β-defensin Gene Using Rotor Gene RG 3000**
Brandão, L. A. C.; Guimarães, R. L.; Souza, P. R. E.; Martins, D. B. G.; Crovella, S.; Arraes, L. C.; Lima Filho, J. L.

H-121 **Recombinant Difteric Protein (B-subunit): Partial purification from *Escherichia coli* inclusion body**
Nascimento, H.J., Silva E.D., Luchesi, D.M., Nascimento, D.V., Armôa, G.R.G. and Silva Junior, J.G.

Controle do Metabolismo

I-1 **THE BENEFICIAL OF ANTIOXIDANT AND MINERALS ON DIABETIC OSTEOPENIA: PRE-CLINICAL STUDY**
Rezende, L. A.; Peruchi, J.; Oliveira, P. B.; Silva, D. G. C.; Braga Costa, T. M.; Bonato, P. B. P.; Gebara, F. D.; Almeida, M. G.; Rezende, A. A.

I-2 **Insulin, calcium and calmodulin modulate activity and intracellular localization of human erythrocytes 6-phosphofructo-1-kinase**
Patricia Zancan; Mauro Sola-Penna

I-3 **Dengue Virus Infection Alters Energy Metabolism of Human Hepatoma Cell Line (HepG2)**
El-Bacha T.; Paixão F.; Galina A. and Da Poian A.T.

I-4 **Regulation of human erythrocytes metabolism by insulin: cellular distribution of 6-phosphofructo-1-kinase and its implications to red blood cells functions**
Patricia Zancan and Mauro Sola-Penna

I-5 **Regulation of rabbit muscle 6-phosphofructo-1-kinase activity by lactate**
Tiago Leite and Mauro Sola-Penna

I-6 **Modulation of muscle 6-phosphofructo-1-kinase activity by interaction with filamentous actin**
Ana Paula Pereira da Silva; Leandro Silva da Costa; Guilherme Spitz; Mauro Sola-Penna

I-7 **Evaluation of a Treatment with *Parkinsonia aculeata* Hydroalcoholic Extract in Normal and Diabetic Rats**
A. C. R. Leite; T. G. Araujo; B. M. Carvalho; M. B. S. Maia; V. L. M. Lima

I-8 **Sunflower Oil Supplemented Diet Increases Lecithin: Cholesterol Acyltransferase (LCAT) Activity and Lipid Levels in Plasma of Caprine (*Capra Hircus*)**
C. A. Silva; S. A. Azevedo; A. C. F. Nogueira; J. A. Neto; B. S. Santos; V. C. O. Carvalho; V. L. M. Lima

I-9 **Hypoglycemic Effect from Leaf Ethanolic Extracts of *Bauhinia monandra* in Rats Subjected to Intrauterine Malnutrition**
Argolo, A.C.C.; Medeiros, R.C.; Dantas, V.C.R.; Saturnino, A.C.R.D.; Brandão-Neto, J.; Paixão, A.D.O. and Coelho, L.C.B.B.

I-10 **Influence of Treatment with *Parkinsonia aculeata* Hydroalcoholic Extract on Glycogen Content and Organs in Treated and Non-Treated Diabetic Rats\end**
A. C. R. Leite; T. G. Araujo; B. M. Carvalho; V. L. M. Lima; M. B. S. Maia

I-11 **Switching the Mode of Sucrose Metabolism in the yeast *Saccharomyces cerevisiae***
Cordioli, M.L.A.; Dário, M.G.; Miletti, L.C.; Badotti, F.; Stambuk, B.U.

I-12 **Modulation of PPAR-gamma expression during the lipocyte differentiation of a hepatic stellate cells model**
Franceschi M.F.S.; Guimarães E.L.; Margis, R.; Guaragna, R.M.; Borojevic, R.; Guma, F.C.R.

I-13 **Cellular distribution of phosphofructokinase activity in Human Hepatoma cells (HepG2) infected by Dengue virus sorotype II.**
Braga L.X.; El-Bacha T.; Sola-Penna M. and Da Poian A.T.

I-14 **SIT4, a Ser-Thr type1/type 2A-related protein phosphatase is involved in regulation of carbohydrate metabolism**
Mónica Montero-Lomelí, Willy Jablonka, Simón Guzmán and Jorge Ramírez

I-15 **Biochemical parameters after treatment with starch from *Solanum lycocarpum***
Ferreira,B.R.C.; Nunes,M.L.A.; Nunes,F.R.A.; Paula, F.B.A.; Brigagão, M.R.P.L.; Nunes, T.A.S.; Moreira, D.A.C.

I-16 **Chromatographic Profiles and Effects from Differents Aqueous Extracts of *Echinodorus macrophyllus* on Murine Splenocytes**
Pinto, A.C.; Lopes, C.S.; Coelho, M.G.P.; Sabino, K.C.C.

I-17 **Ketogenic Diet Fed Rats Have Increased Fat Mass**
Ribeiro, L.C.; Chittó, A.L.F.; Pires, C.F.S.; Rocha, J.K.; Müller, A.; Rotta, L.N.; Ziegler, D.R., Gonçalves, C.A.; Perry, M.L.; Da Silva, R.S. and Gottfried, C.

I-18 **INVESTIGATION OF SELF-INHIBITION IN *Synechococcus* PCC 7942 and *Synechocystis* PCC 6803 CELLS AS A MECHANISM OF TOXIC BLOOM CONTROL**
Fragoso, G.M.; Boechat A.L.; Fraga E.; Meireles D.; Dagnino D.; Jacinto T.

I-19 **THE EFFECT OF ACTIVATION OF HYPOTHALAMIC ACETYL-CoA CARBOXYLASE ON THE HEPATIC INSULIN SIGNALING**
Cesquini, M.; Stoppa, G.R.; Roman, E.A.F.R.; Saad M.J.A.; Velloso, L.A.; Torsoni, M.A.

I-20 **EXERCISE TRAINING EFFECT ON INSULIN RESISTANCE: RELATIONSHIP TO VISCERAL FAT MASS AND PROFILE OF OXIDATIVE STATUS IN MICE**
Puntel, R. L.; Soares, J. C. M.; Brito, V. B.; Folmer, V.; Puntel, G. O.; Rocha, J. B. T.;

Título dos Resumos

I-21 **Effect of citrate (ICV) in the neuronal and hormonal connection with skeletal muscle and adipocyte tissue (WAT) to energetic homeostase**
Stoppa,G.R.;Cesquini,M.; Roman, E.A.F.R.; Saad, M.J.A.; Velloso, L.A.; Torsoni, M.A.

I-22 **METABOLIC CONTROL OF OXIDATIVE DAMAGE**
Barreto, F.; Souza, L, F.; Blatt, V, C.; Bernard, E, A.

I-23 **Serum amyloid A (SAA), an autologous mammalian protein that exerts similar properties of bacterial products**
Sandri S.; Monteiro HP.; Russo M.; Campa A.

I-24 **The Effect of ACTH and FGF2 on the Adrenocortical in Hypophysectomized Rats**
Torres,T.E.P.; Lotfi,C.F.P.

I-25 **Effect of Glycosilated Flavonols on the Glycogen Contents from Muscle and Liver of Diabetic Rats**
Folador, P.; Araújo, L.; Horst, H.; Pizzolatti, M.G.; Figueiredo, M.S.R.B.; Silva, F.R.M.B.

I-26 **Acute stress effects on homocysteine levels in female rats**
Souza FG; Rodrigues MDB; Silva FSB; Barros JÁ; Tufik S; D'Almeida V.

I-27 **CROMATOGRAPHIC ANALYSIS OF *Pterodon pubescens* SEEDS OIL (OPp) AND ITS FRACTIONS AND THEIR EFFECTS ON B LIMPHOCYTES PROLIFERATION**
Siqueira, A. M., Silva, M. C. C., Pinto, A.C., Coelho, M. G. P. Sabino, K. C. C

I-28 **α–METHYL GLUCOSIDE TRANSPORT in *Saccharomyces cerevisiae***
M.A. da Silva; B.U. Stambuk and P.S. de Araujo

I-29 **GLYCEMIC FLUCTUATION AND BLOOD LACTATE ANALYSES AT LONG ENDURANCE TEST: ACCURATE BIOCHEMICAL MARKERS TO IMPROVE EXERCISE EFFICIENCY**
**Rocha, L.A.O.; Franco, O. L.*

Crescimento Celular e Desenvolvimento

J-1 **RhoA GTPase in proliferative signaling triggered by FGF2 and Arginine Vasopressin in mouse Y1 adrenocortical tumor cells**
F.L. Forti, M.H.S. Dias, H.A. Armelin

J-2 **Role of Casein Kinase 2 on cell cycle and interkinetic nuclear migration regulation in the developing retina**
A.C. Dudenhoeffer-Carneiro; M.A.C. Silva-Neto; L. Fragel-Madeira and R. Linden

J-3 **Low molecular weight protein tyrosine phosphatase (LMW-PTP) activity in human osteoblasts hFOB 1.19 during cell cycle and differentiation.**
T.S.SOUZA; M.C.SOGAYAR; A.P. CAMPANELLI; J.M.GRANJEIRO

J-4 **EXTRACELLULAR MATRIX CONTROLS EXPRESSION OF VIMENTIN AND GFAP BY SPECIFICS PATHWAYS SINALIZATION IN U-87 HUMAN ASTROCYTOMA CELLS**
Garcez, RC; Stimamiglio, MA; Trentin, AG; Alvarez-Silva, M

J-5 **Angiotensin-I Converting Enzyme Activity in Murine Long-Term Bone Marrow Cultures.**
Rocha, C.O.; Barbosa, C.M.V.; Carmona A. K.; Araújo, R.C.; Tersariol I.L.S.; Bincoletto; C.

J-6 **MITOGENIC EFFECTS OF TITYUS SERRULATUS AND TITYUS BAHIENSIS VENOM ON RINM5F RAT INSULINOMA BETA CELLS**
A.C.V. Campos, P.B. Santos, E. Kalapothakis, A.C. Goldberg and M.C. Sogayar

J-7 **Expression of MMP2, 9 and RECK during palatogenesis.**
Demarchi ACCO, Zambuzzi WF, Paiva KBS, Nunes F, Valenzuela MG, Sogayar MC, Granjeiro JM

J-8 **Growth of Human Fibroblastic Cells AS198 on Microcarriers Spinner Culture**
Mantovani MC, Bonaccorsi ED,Conceição MM, Chambergo FS, El-Dorry H, Pereira CA

J-9 **EFFECTS OF FIBRONECTIN AND PROTEOGLYCANS ON TRUE HISTIOCYTIC LYMPHOMA ADHESION AND PROLIFERATION**
M.A. Stimamiglio; R.C. Garcez; A.G. Trentin; M.A.C. Domingues and M. Alvarez-Silva.

J-10 **Analysis of Pathways and Biological Responses of Rat Adrenal Primary Culture Cells Stimulated with ACTH and FGF2.**
Mattos, G.E.; Lotfi, C.F.P.

J-11 **CEPHALIC AND TRUNCAL MURINE NEURAL CREST STEM CELLS DIFFERENTIATION IS INFLUENCED BY THE EXTRACELLULAR MATRIX, IN VITRO**
Costa-Silva, B; Melo, F.R.; Neves, C.M.; Calloni, G.W.; Alvarez-Silva, M.; Trentin, A. G

J-12 **Phenotypic modulation induced by 8-bromoguanosine and guanosine in B16F10 melanoma cells**
Luvizon A.C.; Bacila Y.; deMoraes E.C.P.; Zanata, S.M.; Nakao, L.S.

J-13 **Extracellular Matrix Affects the Differentiation of Cephalic and Trunk Neural Crest Cells**
Calloni, G.W.; Neves, C. M.; Costa, M.C.Bittencourt, D. A.; Costa-Silva, B.;Trentin, A. G.; Alvarez-Silva, M.

J-14 ***De Novo* Synthesis and Recycling Pathways of Gangliosides in Myofibroblast and Lipocyte Phenotypes of a Liver Connective Tissue Cell Line (GRX).**
Trindade, V.M.T.; Aguirres, A.B.; Mello, P.A.; Andrade, C.M.B.; Guaragna, R.M.; Borojevic, R. and Guma, F.C.R.

J-15 **Differentially expressed sequences isolated during the larva to adult differentiation of the *Mesocestoides corti* (Platyhelminthes: Cestoda) cestode parasite.**
Cristiano V. Bizarro, Mário H. Bengtsonb, Felipe K. Ricachenevskya, Arnaldo Zaha, Mari C. Sogayarb, and Henrique B. Ferreira

J-16 **Preparation of Human Monocytes from Peripheral Blood**
Catalán, A.M.C.; Izumi,C.; Laure, H.J.; Orellana, M.D.; Oliveira,V.C.; Oliver,C.; Jamur,M.C.; Covas,D.T. and Greene, L. J.

J-17 ***In vivo* effects of the flavonoids quercetin and morin on low molecular weight phosphotyrosine protein phosphatase activities**
Camargo, C.A.; Sousa, R.R.R.; Araujo, D.R., da Silva, M.E.F., Miranda, M.A.; Granjeiro, J.M.; de Paula, E.; Meirelles, N.C.; Aoyama, H.

J-18 **Resveratrol modulates actin filaments and inhibits proliferation in GRX cell line.**
Souza, I.C.C.; Gerlach, A.; Martins, L.A.M.; Gottfried, C.; Borojevic, R.; Guaragna, R.M.; Guma, F.C.R.

J-19 **Cytotoxicity and antithrombogenic potential of S-nitrosoglutathione in aqueous polymeric solutions**
Soraggi, C. L.; Shishido, S. M.; Marcondes, S.; Seabra, A. B.; Antunes, E.; de Oliveira, M. G.; Krieger, M. H.; Lemos, M. E.

J-20 **Isolation and analysis of Fibroblast Growth Factor-2 (FGF2) intracellular protein complexes in mouse cell lines**
Gilson M. Murata and Hugo A. Armelin

J-21 **Isolation and culture of human umbilical cord/placenta**
T.S. Jeremias, P.C. Antunes, A.G.Trentin,M. Alvarez-Silva.

J-22 **FGF-Receptor knockdown by RNAi in the mouse Y-1 adrenocortical cell line**
J. Salotti; I.T. Rebustini; H.A. Armelin

Educação em Bioquímica

K-1 **Oxidative Damage and Suppression: an Experimental Approach to Teaching Biochemistry**
Isa G. J. de Avellar, Luana T. Dalvi, Lorena M. R. Mascarenhas, Alexandre B. Sé and Marcelo Hermes-Lima

K-2 **Lactate production retards, not causes, acidosis: a theoretical approach for physical education students.**
Hohl, R.; Silva, F.O.C.; Lazarim, F.L.; Tessutti, L.S.; Sarraipa, M.; Macedo, D.V.

K-3 **Lactate production retards, not causes, acidosis: a practical approach for physical education students.**
Silva, F.O.C.; Lazarim, F.L.; Tessutti, L.S.; Hohl, R.; Sarraipa, M.; Macedo, D.V.

K-4 **CONSTRUCTIVISM APPLIED TO THE DISCIPLINE: ADVANCED EDUCATION ON BIOCHEMISTRY**
Maia, W. B.; Santos, B. S.; Vasconcelos, A. S.; Beltrão, E.I.C.; Lima, V. L. M.

K-5 **Set of Activities Addressed for Elementary School Students: Cells and the Genetic Material**
E.M. Miranda; F.M. Chiari; A.C.R. Guerra; N.F. dos Santos; L.M. Beltramini; N.R.S. Bossolan

K-6 **A 9-hour biochemistry exam. An iron man competition or a good way of evaluating undergraduate students?**
Alexandre B. Sé; Euler Nascimento; Marcelo Hermes-Lima

K-7 **A SOFTWARE TO PROMOTE INTERACTIVE TEACHING OF WATER PROPERTIES IN BIOCHEMISTRY CLASSES**
Lapouble, O.M.M; Veloso, C.E.R.; Neves, G.R.; Castro, M.S.; Fontes, W.

K-8 **Multimedia Material to Help Photosynthesis Teaching in Regular and Distance Classesrn**
Costa, G.R.T.; Milhomem, D.A.; Lima, C.M.R.; Castro, M.S. and Fontes, W.

K-9 **Development of a virtual classroom to teach biochemistry**
Rodrigues, R.S.; Castro, M.S.; Fontes,W.

K-10 **INTERNET ASSISTED LEARNING OF BIOCHEMISTRY**
Lima, R.M., Gomes, M.C., Xavier-Filho, J., Oliveira, A.E.A. and Fernandes, K.V.S.

K-11 **The Influence of the Tutorial activity in the academic, didactic and social development of the tutors of biochemistry at UFV.**
Baracat-Pereira, M.C.; Carvalho, A.M.X.; Mendes, F.Q.; Sartori, M.A.; Costa, T.R.; Pereira, H.J.V.; Pinho, T.A.; Marinho, P.E.A.; Silva, J.C.; Teixeira, F.R.; Braathen, P.C.

K-12 **Biochemical software: Carbohydrates on Laboratory.**
Heidrich, D.N.; Figueiredo, M.S.R.B.; Antonio, R.V.; Da Costa, J.G.; Arantes, P.B.; Figueiredo, L. F.; Merino, E.; Sugai, J.K.

K-13 **Rapid identification of capybara (*Hydrochaeris hydrochaeris*) through allele-specific PCR**
Flávio Henrique-Silva, Marcelo Cervini and Euclides Matheucci Jr

K-14 **Concept Maps as a strategy to asses learning in biochemistry using educational softwares**
A. M. P. Azevedo, G. B. Lazzarotto, V. R. Lando, M. I. Timm, M. A. Zaro

K-15 **Evaluation of The Virtual Cells Software: a Teaching Tool**
C.C.P. da Silva; N.F. dos Santos; L.M. Beltramini

K-16 **Survey of the Difficulties and Interests of Students and Teachers of Elementary and High Schools Related to Microbiology**
A. M. Palmieri; L. M. Beltramini; N. R. S. Bossolan

K-17 **Fighting against a misconception about the Energy Yielding Metabolism: a proposal for starting the teaching of human nutrition in schools**
F Souza Silva, AT Da Poian and MRMP Luz

K-18 **The Tutorial Program in Biochemistry at UFV: Improvement of the Activities and Performance of the Enrolled Students**
Costa, T.R.; Baracat-Pereira, M.C.; Sartori, M. A.;Paier, C. R. K.; Mendes, F.Q.; Carvalho, A. M. X.; Marinho, P. E. A.; Silva, J. C.; Rodrigues, J. I. S.; Silva, A. C. F.; Braathen, P.C.

K-19 **Alternative Educational Approach to Introducing Cell Biology**
Rosilane T. Silva, Patrícia Santos de Oliveira, Tiago da Luz Andrade, Patrícia F. Gardino and M. Lucia Bianconi

K-20 **Teaching and Learning on Enzymes: The Need for New didactic tools**
Luiele, M.L.; Leles, J.; Bianconi, M. L.

K-21 **A SYSTEMIC VISION OF BIOLOGY: OVERCOMING LINEARITY**
Mayer, M.; Carneiro-Leão, A. M. A.; Mayer, C.; Alves, J. M.

K-22 **Building the glycolisis and Krebs cycle as a puzzle: a strategy to learning metabolic pathways.**
Lazarim, F.L.; Catanho, F.O.S.; Tessutti, L.S.; Hohl, R.; Machado, E.; Ferrucci, D.; Lourenço, T.; Passos, M.A.; Buscariolli, R.; Normand, A.C.; Ferraresso, R.L.P.; Sarraipa, M.; Trape, A.; Gonçalves, M. C. A. and Macedo, D.V.

2-Resumos.pmd 63 6/6/2005, 12:38

Título dos Resumos

K-23 **Field-testing PBL Approach Seeking Web-based Distance Education Applications**
Perez, D.; Yokaichiya, D. K.; Galembeck, E.

K-24 **VIRUS GENOME IMAGING VIA a2GRAMS:BUILDING A MATLAB TOOLBOX FOR PROKARYOTIC DNA ANALYSIS**
C. Dantas Silva; E.A. Bouton; N.S. Santos-Magalhães; H.M. de Oliveira

Enzimas

L-1 **SigrafW: An Easy-To-Use Program For Fitting Enzyme Kinetic data**
Leone FA; Baranauskas JA; Furriel RPM and Borin IA

L-2 **Kinetic characterization of bone alkaline phosphatase from normal and tibial dyschondroplasia affected chickens**
J. M. Pizauro; P. Ciancaglini; V. S. Nakagi; G. R. Rodrigues and R. A. Ramos.

L-3 **Multiple mechanisms of sphingosine-dependent apoptosis**
Suzuki, E., Handa, K., Toledo, M.S., and Hakomori S.

L-4 **A NOVEL HUMAN HEPATIC AMINOPEPTIDASE ASSOCIATED WITH HEPATIC DESEASE**
Rettori, M.M.; Montanaro-Oliveira, S.M.; Polli, L.S.; Freitas Jr. J.O.; Kouyoumdjian, M.; Alves, K.B.

L-5 **HERMIT CRAB *Clibanarius vittatus*: KINETIC CHARACTERIZATION OF GILL MICROSOMAL (Na^+,K^+)-ATPase**
Gonçalves RR, Mantelatto FLM, Furriel RPM, JC McNamara and Leone FA

L-6 **Characterization of (Na^+,K^+)-ATPase activity in gill microsomes of the crab *Callinectes danae* acclimated to 15° salinity**
Masui D.C.; Furriel R.P.M.; Mantelatto F.L.M.; McNamara J.C. and Leone F.A.

L-7 **Proteinases from Lachesis muta muta (Bushmaster) snake venom. LV-PA (plasminogen activator) and LV-KA (kallikrein-like), characterization with temperature and salt variations, study using fluorogenic peptides.**
Héctor L. Pandolfo Jr.; Vitor Oliveira; Eladio F. Sanchez; Maria A. Juliano and Luiz Juliano Neto

L-8 **THE MEMBRANE PEPTIDASE PHEX INTERACTS AT CELL SURFACE WITH HEPARAN SULFATE PROTEOGLYCANS**
Barros, N.M.T.; Nascimento, F.D.; Oliveira, V.; Oliveia, M.; Boileau, G.; Juliano, M.A.; Nader, H.B.; Juliano, L.; Tersariol, I.L.S.; and Carmona, A.K.

L-9 **Solid Phase Combinatorial Peptide Library with Fluorescence Resonance Energy Transfer (FRET) in the Characterization of Proteolytic Enzymes**
Alves, F. M; Hirata, I. Y and Juliano, M. A.

L-10 **CATHEPSIN B AND HEPARAN SULFATE GLYCOSAMINOGLYCANS IN HEAD AND NECK HUMAN CANCER CELLS LINES**
NASCIMENTO, F.D.[1]; BARROS, N.M.T.[2]; NADER, H.B.[1] and TERSARIOL, I.L.S.[3]

L-11 **Purification and characterization of two recombinant digestive lysozymes from *Musca domestica***
Fabiane C. Cançado; Sandro R. Marana

L-12 **Molecular basis of the substrate specificity in a β–glycosidase**
Julio H. K. Rozenfeld; Lucio M. F. Mendonça; Sandro R. Marana

L-13 **Identification of extracellular serine proteases from *Leishmania braziliensis***
Guedes, HLM; Salles, CMC; Rezende-Neto, JM; Rossi-Bergmann, B. and Giovanni-De-Simone, S.

L-14 **Protective role of thimet-oligopeptidase and neurolysin peptide substrates in serum-free cultures of murine B16F10-Nex2 melanoma cells.**
T. Paschoalin; A.K. Carmona; L. Juliano and L.R. Travassos

L-15 **Purification and kinect-biochemical characterization of extracellular α-galactosidase from *Debaryomyces hansenii* UFV-1**
Viana, P. A; Trevizano, L. M.; Marques, V. M.; Leite, T. A.; Rezende, S. T.; Passos, F. M. L.; Guimarães, V. M.

L-16 **Molecular basis of aglycone specificity in a β-glycosidase**
Marcelo H. P. Padilha; Sandro R. Marana

L-17 **THE ACTIVITY OF 20S PROTEASOME FROM THE YEAST *S. cerevisiae* IS MODULATED BY REDOX MECHANISMS INCLUDING S-THIONYLATION AND REDUCTION BY GLUTAREDOXIN2 AND CYTOSOLIC THIOREDOXINS**
Gustavo M. Silva, Felicia P. Cavalher, José A. Bárcena, Clelia R. A. Bertoncini, Luis E. S. Netto and Marilene Demasi

L-18 **Characterization of intracellular α-galactosidase from *Debaryomyces hansenii***
Viana, P. A.; Trevizano, L. M.; Marques, V. M.; Silva, D. F.; Cardoso, M. S.; Rezende, S. T.; Passos, F. M. L.; Guimarães, V. M.

L-19 **Production, purification and partial characterization of manganese peroxidase from the white-rot fungus *Pleurotus pulmonarius***
Souza, DF; Peralta, RM.

L-20 **Influence of pH in the activity of the enzyme nitrate reductase in *Microcystis aeruginosa* (Kützing) Kützing**
SOUZA A.O. and P. Colepicolo

L-21 **Modulation of 6-phosphofructo-1-kinase oligomeric equilibrium by Ca^{2+} and calmodulin**
Marinho-Carvalho, M.M; and Sola-Penna, M.

L-22 **Long-term exposure of the freshwater shrimp *Macrobrachium olfersii* to 21° salinity: effects on gill Na,K-ATPase activity**
Garçon DP; Mendonça NN; Masui DC;. McNamara JC; Leone FA and Furriel RPM

L-23 **A molecular model for processivity in glycosyl-hydrolases. Susbtrate inhibition, processivity and accessory substrate binding sites at an exoβ-1,3-glucanase from *Abracris flavolineata* (Orthoptera)**
Genta, F.A., Dumont, A.F., Terra, W.R. and Ferreira C.

L-24 **Possible Physiologic Substrates of the Human Kallikrein 6 (hK6)**
P. F. Angelo Jr.; Lima, A.R.; Melo, R.L.;Juliano, L. and Juliano, M.A.

2-Resumos.pmd 64 6/6/2005, 12:38

L-25 **Isolation of a non-hemorrhagic metalloprotease from Bothrops jararacussu snake venom**
Marcussi, S.; Sant'Ana, C. D.; Mazzi, M. V.; Silveira, L. B.; Cambraia, R. S.; Stabeli, R, G.; Giglio, J. R.; Soares, A. M.

L-26 ***In vivo* and *in vitro* effects of etanol on NTPDase and ecto-5´-nucleotidase activities in zebrafish (*Danio rerio*) brain membranes**
Rico, E.P.; Senger, M.R.; Arizi, M.B.; Rosemberg, D.B.; Bernardi, G.F.; Dias, R.D.; Bogo, M.B.; Bonan, C.D.

L-27 **PARCIAL ISOLATION AND CARACTERIZATION OF GLUCOSIDASES FROM Echinoderm *Holothuria gricea***
Andrade, M.L.L; Silva, J.M.C., Abreu, L.D.; Matta, L.D.M. and Sousa Filho, J. F.

L-28 **Development of a bioreactor based on α–galactosidase immobilized for oligosaccharides hydrolysis in soyben products.**
D.L. Falkoski, I.J. Chamel, V.M. Guimarães, S.T. Rezende.

L-29 **CATHEPSINS CONTROL PLASMA KALLIKREIN/KININ SYSTEM ASSEMBLY ON ENDOTHELIAL CELL SURFACE**
Gutierrez, A.; Tersariol, I.L.S.; Nader, H.B.; Melo, K.R.B.; Carmona, A.K.; Motta, G.

L-30 **Kosmotropic salt effect on Picornavirus 3C peptidase**
I.E. Gouvêa; D.Andrade; M.H.S. Cezari; M.A. Juliano and L. Juliano

L-31 **Kinetic Characterization of Membrane Bound Alkaline Phosphatase Obtained from Rat Bone Marrow Cell Culture**
Simão, A.M.S.; Beloti, M.M.; Rosa, A.L.; Pizauro, J.M. and Ciancaglini, P.

L-32 **Chorismate Synthase from *Mycobacterium tuberculosis*: a Bifunctional Enzyme as a Target to Anti-tuberculosis Drug Development**
Ely F.; Mendonça, J. D.; Frazzon, J.; Basso, L. A.; Santos, D. S.

L-33 **Pectinmethylesterase from brazilian guava, *Paluma* cultivars: purification steps**
Leite K. M. S. C.; Bach E. E. and Oliveira O. M. M. F.

L-34 **Partial purification of the \ss-N-acetylglucosaminidase from eggs of the echinoderm *Echinometra lucunter***
A. L. M. Lima; J. E. Gomes Júnior; R. M. Nascimento, J. F. Sousa Filho; L. D. M. Matta & L. R. D. Abreu

L-35 **Pectinase Inhibition by Ethanolic Extracts from *Cedrela fissilis* (Meliaceae)**
Zavan, C.; Leite, A.C.; Bacci Júnior, M.; Bueno, O.C.; Hebling, M.J.A.; Pagnocca, F.C.; Fernandes, J.B.

L-36 **Slow-onset inhibition by an inorganic complex of 2-trans-enoyl-ACP (CoA) reductase from *Mycobacterium tuberculosis***
J.S. Oliveira, E.H.S. Sousa, O. N. Souza, I.S. Moreira, D.S. Santos and L.A. Basso

L-37 ***Lonomia obliqua* prothrombin activator protease (Lopap): action in endothelial cells**
Fritzen, M.; Reis, C.V.; Flores, M.P.A. Chudzinski-Tavassi, A.M.

L-38 **Analysis of the Metal Requeriment of 3-Deoxy-D-arabino-heptalosonate 7-Phosphate Syntase from *Mycobacterium tuberculosis***
Weber, P. G.; Frazzon, J.; Basso, L.A.; Santos, D.S.

L-39 **Identification of Selective Inhibitors of *Trypanosoma cruzi* Glyceraldehyde-3-Phosphate Dehydrogenase as Potential New Chemotherapeutic Agents**
Zottis, A.; Massucato, D.; Andricopulo, A. D.; Castilho, M. S.; Meier, L.; Silveira, G. P.; Fernandes, L.; Sá, M. M.; Oliva, G.

L-40 **Isolation of new L-amino acid oxidase from Crotalus durissus cascavella**
Toyama, D.O.;,Toyama, M.H., Passero, F.D.; Laurenti, M.D., Corbetti, C.E., Fonseca, F.V., Antunes,E., Joazeiro, P.P., Beriam, L.O.S., Martins, M.A.C., Monteiro, H.S.A., Fonteles, M.C.

L-41 **Modulation of Aspartic Protease Activity by Reversible Phosphorylation of its Substrates**
Silveira, A.B.; Castro-Santos, J. and Silva-Neto, M.A.C.

L-42 **Immobilization and characterization of a α–galactosidase of the fungus *Aspergillus terreus*.**
A.P. Reis, D.L. Falkoski, V.M. Guimarães; M.G.A. Oliveira, S.T. de Rezende.

L-43 **Expression of a recombinant ATP-diphosphohydrolase from the parasite *Schistosoma mansoni* using *Pichia pastoris***
Lévano-García, J.C.; DeMarco, R.; Verjovski-Almeida, S.

L-44 **Activation of alphaChymotrypsin by Alcohols: Kinetic and Conformational Studies**
D'Andrea, M.G., Shida, C.S., Melo, G., Lelles, J., Paula, A.B. and Bianconi, M.L.

L-45 **Characterization of a hyperthermophilic lipase overexpressed in *Escherichia coli***
S. C.Alquéres; K. C. S. Neves; R. V. Almeida; T. L. M. Alves; O. B. Martins

L-46 **Tissue reaction and profile of fosfatases after the implantation of xenogenic bone demineralized matrix in muscle of rats.**
Rodrigo Cardoso de Oliveira, Willian Fernando Zambuzzi, Marcelo Neves, Thelma Lopes da Silva, José Mauro Granjeiro

L-47 **Isolation Of DNase II From *Bothrops alternatus* Snake Venom**
Nascimento, J.M.; Hyslop, S.

L-48 **Potentiometric Biosensor for L-glutamate Measurement by Flow Injection Analysis**
Oliveira, M.I.P.; Jerônimo da Silva, R.A.; Silva, R.; Cadena, P.G.; Pimentel, M.C.B.; SilvaV. L.

L-49 **Dexamethasone Stimulates Ecto-5´-Nucleotidase/CD73 In Rat C6 Glioma Cell Line**
Bavaresco,L.; Bernardi,A.; Barreto-Chaves, M.L.; Sarkis, J.J.F.; and Battastini A.M.O.

L-50 **Proteolytic activity of cultured *Leishmania sp* extracellular products**
Rezende-Neto, JM; Guedes, HLM, Salles; CMC and Giovanni-De-Simone, S.

L-51 **Standardization of a method of *in vitro* evolution of β–glycosidases**
Lúcio Mário F. Mendonça; Sandro R. Marana

L-52 **Inhibition of the nucleotide hydrolysis in zebrafish (*Danio rerio*) brain membranes by malathion**
Rosemberg, D.B.; Senger, M.R.; Rico, E.P.; Arizi, M.B.; Bernardi, G.F.; Dias, R.D.; Bogo, M.B.; Bonan, C.D.

L-53 **Enzyme Activity Assay in the Gingival Fluid of Patients Submitted to Periodontal Surgery**
Assis, D.M.; Nunes, T.A.S.; Brigagão, M.R.P.L.; Júnior, N.V.R.; Esteves, A.J.; Juliano, M.A.; Alves, L.C.

Título dos Resumos

L-54 **Cloning, expression, purification and molecular characterization of *Leishmania major* dihydroorotate dehydrogenase.**
Feliciano, P.R.; Cordeiro, A.T. and Nonato, M.C.

L-55 **Biochemical characterization of β–glycosidases from *Humicola insolens***
Souza FHM; Masui DC; Leone FA; Jorge JA and Furriel RPM

L-56 **Determination of Cysteine- and Serine-Protease Activity in Aqueous Extracts of the Mushroom *Agaricus blazei* Murill**
Lago, S.N.; Assis, D.M.; Nunes, T.A.S.; Brigagão, M.R.P.L.; Moreira, D.A.C.; Perón, R.A.; Mendonça, L.M.; Juliano, M.A.; Alves, L.C.

L-57 **The gill (Na^+,K^+)-ATPase and the invasion of freshwater by the palaemonid shrimps: biochemical characterization of the enzyme of *Macrobrachium amazonicum***
Santos L.C.F.; Masui D.C.; Augusto A; Leone F.A.; McNamara J.C. and Furriel R.P.M.

L-58 **PUTATIVE EFFECTS OF NITRIC OXIDE ON SKELETAL MUSCLE 6-PHOSPHOFRUCTO-1-KINASE REGULATION**
Leandro Silva da Costa; Ana Paula Pereira da Silva; Leonardo Nogueira; Martha M. Sorenson; Mauro Sola-Penna

L-59 **Effect of active site mutation on S and S^+ binding energies in a β–glycosidase**
Fábio L.H. Lin; Sandro R. Marana

L-60 **Kallikrein-kinin system in *Lonomia obliqua* envenomation: biochemical and pharmacological studies**
Bohrer, C. B., Fernandes, D., Assreuy, J., Termignoni, C., Guimarães, J. A.

L-61 **Bromelain Properties in Melxi® Syrup**
Silva, R.A; Oliveira, M.I.P.; Jerônimo da Silva, R.A.; Cadena, P.G.; Moreira, K.A.; Silva, A.C; Lima Filho, J.L; Pimentel, M.C.B

L-62 **Hemoglobin and Casein Proteases of Tambacu Skin Mucus**
S.A.T. Leitão; P. Gagliano; C. M.C. Salles; J. B. Salles; S. G. De Simone

L-63 **The Use of Fluorescence-Quenched Substrates Based on PAR 1 Sequence to Evaluate Enzymatic Activity of Thrombin**
Vieira, SM; Reis, FC; Dutra, DLS; Juliano, L, Juliano, MA; Zingali, RB

L-64 **Magnesium-Dependent Ecto-ATPase Activity of *Trypanosoma brucei brucei* Can Be Modulated By Heme and Ferrous Iron**
Thomaz, R.R.; Leite, M.S.; Vercesi, A.E. and Meyer-Fernandes, J.R.

L-65 **Ecto-phosphatase activity on the surface of the rat intestine**
Cosentino, D. G.; Werneck-Lacerda, A.; Amazonas, J. N.; Meyer-Fernandes, J. R.

L-66 **Modulation of 6-phosphofructo-1-kinase activity and oligomeric conformation by guanidinium chloride**
Fernanda V.R. Almeida; Patricia Zancan; Mauro Sola-Penna

L-67 ***In vitro* and *ex vivo* evaluation of fructose-1,6-diphosphate effects on the ectonucleotidase activities of platelets from healthy and septic rats**
Leite, C.E., D´Avila, L.C., Pires, M.G.S., Bonan, C.D., De Oliveira, J.R.

L-68 **PURIFICATION AND CHARACTERIZATION OF A PROTRHOMBIN ACTIVATOR FROM *Bothrops jararaca* VENOM**
Berger, M.; Pinto, A.F.M.; de Amorim, H. L. N. and Guimarães, J. A.

L-69 **On the mechanism of regulation of 6-phosphofructo-1-kinase activity by allosteric ligands**
Tatiana C.C. Lobo; Mauro Sola-Penna

L-70 **Generation of site-directed mutations in the human Adenylosuccinate lyase - Determination of the structure-function relationship**
Evangelista, J.P.; Cerântola N. C. M.; Mantovani, M.; Nicoluci,R.; Kmoch, S.; Thiemann,O.H.

L-71 **Zimographic Analysis of Gelatinases (MMP-2 and MMP-9) During the Endochondral Ossification**
Willian Fernando Zambuzzi, Rodrigo Augusto da Silva, Wilson Aparecido Orcini, José Mauro Granjeiro

L-72 ***Caesalpinia echinata* (pau-brasil) Seeds Present a Cathepsin B Inhibitor**
Watanabe, R.M.O.; Cruz-Silva, I.; Gozzo, A.J.; Nunes, V.A.; Carmona, A.K.; Sampaio, M.U.; Araujo, M.S.

L-73 **PURIFICATION AND CHARACTERIZATION OF A CYSTEINE PEPTIDASE ACTIVITY IN HUMAN PERICARDIAL FLUID**
Parolini, M.T.; Rodrigues, M.L.P.; Hial, V.; Barros, D.S.; Juliano, M.A.; Gomes, R.A.S.;

L-74 **Regulation of Xylanase in *Aspergillus phoenicis*: a Physiological and Molecular Approach**
Rizzatti, A.C.S.; Freitas, F.Z.; Bertolini, M.C.; Peixoto-Nogueira, S.C.; Terenzi, H.F.; Jorge, J.A.; Polizeli, M.L.T.M. e-mail: polizeli@ffclrp.usp.br

L-75 **Purification and partial characterization of the main manganese peroxidase produced by the white rot fungus *Lentinula edodes* on solid state culture**
C. G. Bôer; L. Obici; C.G.M. Souza; R. M. Peralta

L-76 **Glycosaminoglycans Affect the Assembly of Kininogen on Endothelial Cells**
Gozzo, A.J.; Nunes, V.A.; Cruz-Silva, I.; Nader, H.B.; Michelacci, Y.M.C.; Sampaio, M.U.; Motta, G.; Araujo, M.A.

L-77 **ENZYMATIC ACTIVITIES IN SUPERNATANTS OF RENAL CELLS IN CULTURE**
Teodoro, L.G.V.L.; Rodrigues, M.L.P.; Hial, V.; Carmona, A.; Juliano, M.A.; Gomes, R.A.S.

L-78 **Characterization from extracellular adenine nucleotides hydrolysis by Walker 256 tumor from rats.**
Buffon, A., Ribeiro, V.B., Casali, E.A., Sarkis, J.J.F.

L-79 **Molecular Cloning of Three Astacin-like Metalloproteases from the Venom Gland of *Loxosceles intermedia* (Brown Spider)**
da Silveira, R.B.; Pigozzo, R.B.; Gremski, W.; Veiga, S.S.; Nader, H.B.; Dietrich, C.P.; Toma, L.

L-80 **Study of the monopeptidyl-carboxypeptidase activity of recombinant human cathepsin X**
Simone Silva Cotrin, Luciano Puzer, Maria H. S. Cezari, Maria A. Juliano, Luiz Juliano, Boris Turk and Adriana K. Carmona[1]

L-81 **Antitumor effect of Brofazin, a protease from *Bromelia fastuosa*, on B16F10-NEX2 melanoma cells**
Ferreira, C.A.G.; Cabral, H.; Carmona, A.K. and Travassos, L.R.

L-82 ***In vivo* inhibition of ectonucleotidases by Lead in zebrafish brain membranes**
Arizi, M.B.; Senger, M.R.; Rico, E.P.; Rosemberg, D.B.; Bernardi, G.F.; Dias, R.D.; Bogo, M.B.; Bonan, C.D.

2-Resumos.pmd 66 6/6/2005, 12:38

L-83 **Production and Characterization of Polygalacturonase Secreted by *Aspergillus giganteus*.**
Pedrolli, D.B.; Brochetto-Braga, M.R.; Balduino, K.N.; Carmona, E.C. (with technical assistance of Souza, C.S.C.)

L-84 **Purification and Characterization of the Xylanase from *Trichoderma inhamatum***
Silva, L.A.O.; Brochetto-Braga, M.R.; Carmona, E.C.

L-85 **The Use of Cassava Fibrous Residue for Amylase Production by Fungus *Paecilomyces sp***
Cappellari, A.R.; Henn, C.; Silva, V.C.H.; Mioranza, A.; Osaku, C. A.; Zilly. A.; Kadowaki, M.K.

L-86 **The Use of Corn Straw as Inducer of Xylanase Production by Fungus *Fusarium heterosporum*rn**
Henn, C.; Silva, V.C.H.; Cappellari, A. R.; Moretti, N.S.; Osaku, C. A.; Zilly. A.; Peralta, R.M.; Kadowaki, M.K.

L-87 **Influence of carbon source in the production of extracellular tannase by *A. tamari*i in submerged cultures.**
Costa, A. M.; da Silva, V. C. H.; Kadowaki, M. K.; Peralta, R. M.

L-88 **Immobilization/Stabilization on Glioxil-Agarose Gel of Amylases Commercial and from *Neurospora crassa***
Tavano, O. L.; Goulart, A. J.; Giordano, R. L. C.; Monti, R.

L-89 **Production of ligninolytic enzymes by *Pleurotus pulmonarius* CCB19 using a non-conventional substrate on solid state fermentation.**
Horie, D.; Oliveira, M.A.; Souza, C.G. M.; Peralta, R. M.

L-90 **Fluoresce Resonance Energy Transfer (FRET) Peptides Derived from naturalrnproteins as substrates for Human Furin.**
Izidoro, M.A.; Judice, W.A.S.; Feitosa, G.P.V.; Juliano, M.A.; Juliano, L.

L-91 **PLASMA KALLIKREIN/KININ SYSTEM INTERACTION WITH CELL SURFACE AND EXTRACELLULAR MATRIX IS INFLUENCED BY PROTEOGLYCANS**
Melo, K.R.B., Tersariol, I.L.S., Nader, H.B., Gutierrez, A. and Motta G.

L-92 **Biochemical properties of the conidial alkaline phosphatase from an osmotic sensitive mutant (os-1) of *Neurospora crassa*.**
Bogo KR, Masui DC, Leone FA, Jorge JA and Furriel RPM

L-93 **Production and partial characterization of *Myrothecium verrucaria* keratinolytic protease.**
Moreira, F.G. and Peralta, R.M

L-94 **Effects of Dietary Protein and Electrolyte Balance Levels in the Serum Glutamate Oxaloacetate and Glutamate Pyruvate Transaminases and Alkaline Phosphatase of Chicks at 14 and 21 Days of Age**
Martins, A.C.C.L.; Lopes Jr, C.O.; Minafra, C.S.; Vieites, F.M.; Moraes, G.H.K.; Oliveira, T.T.

L-95 **Horseradish Peroxidase-Catalyzed Oxidation of Rifampicin: Reaction Rate Enhancement by Co-oxidation with Antiinflammatory Drugs**
Boschi, F.J.N.; Ximenes, V.F.; Rodrigues, A.P.; Fonseca, L.M.; Faria-Oliveira, O.M.M.; Brunetti, I.L.

L-96 **Production of laccase and manganese peroxidase by *Pleurotus ostreatus* using passion fruit peel as substrate on solid state fermentation**
Alexandrino, A. M.; Souza, C.G.M.; Peralta, R. M.

L-97 **Phosphatases Produced by *Rhizopus microsporus* var. *rhizopodiformis* in Solid State Fermentation**
Barbosa Junior, A.; Guimarães, L.H.S.; Jorge, J.A.; Terenzi, H.F.; Polizeli, M.L.T.M.

L-98 **Profiling the proteome complement of the secretion from hypopharyngeal gland of Africanized nurse-honeybees *Apis mellifera* L.**
Santos, K.S.; Santos, L.D.; Mendes, M.A.; Souza, B.M.; Malaspina, O. and Palma, M.S.

L-99 **INHIBITION OF *SELENASTRUM CAPRICORNUTUM* ACID PHOSPHATASE BY SEWAGE SLUDGE CONTAMINANTS AND *IN VIVO* KINETIC STUDIES WITH MERCURY AND LAS**
Jonsson, C.M.; Domingos, N.; Tessari, C.M.; Silva, T.L.; Leite, L.C.; Aoyama, H.

L-100 **SPECIFICITY STUDY OF RECOMBINANT PROLYL OLIGOPEPTIDASE AND ITS VARIANT (POC255T) USING FRET PEPTIDES**
Hemerly, J. P., Gorrão, S. S., Polgar, L., Juliano, M. A. and Juliano L

L-101 **Studies on substrate specificity of thimet oligopeptidase and neurolysin using mutant proteins.**
M.F.M. Machado, V. Rioli, L.M. Castro, M.A. Juliano, L. Juliano, E.S. Ferro and V. Oliveira.

L-102 **EFFECT OF TERC-BUTYL HYDROPEROXIDE ON PROTEIN TYROSINE PHOSPHATASE PURIFIED FROM HUMAN LYMPHOCYTES MEMBRANES**
Sousa, R.R.R., Grizolli, W.M., Miranda, M.A., Jucá, M.B., Anjos, E.F. and Aoyama, H.

L-103 **Inhibitory effect of lipoic acid on firefly luciferase bioluminescence**
Kazuki Niwa and Yoshihiro Ohmiya

L-104 **Thermostable Amylase with Potential Industrial Application From *Aspergillus phoenicis***
Benassi, V.M.; Peixoto-Nogueira, S.C.; Michelin, M.; Terenzi, H.F.; Jorge, J.A.; Polizeli, M.L.T.M.

L-105 **Partial purification and characterization of intracellular invertase from *Aspergillus terreus***
Fontes, G.C.; Fialho,L.S.;Almeida,M.N.;Queiroz, J.H.; Coutinho,J.B; Guimarães,V.M.; de Rezende,S.T.

L-106 ***IN VIVO* EFFECTS OF *SYZYGIUM CUMINII* ("JAMBOLÃO") ANTHOCYANINS EXTRACT ON MOUSE PLASMA PHOSPHATASES ACTIVITIES**
Palombino, D.D.; Sousa, R.R.R.; Camargo, C.A.; Araujo, D.R., da Silva, M.E.F., Miranda, M.A.; Granjeiro, J.M.; de Paula, E.; Meirelles, N.C.; Rossi, A.V.; Aoyama, H.

L-107 **Characterization of a P-type Na^+-ATPase present in *Leishmania amazonesis* promastigote**
Pires, V.M.P; Almeida-Amaral, E.E; Caruso-Neves, C. and Meyer-Fernandes J.R.

L-108 **Regulation of *Leishmania amazonensis* (Na^++K^+)ATPase activity by protein kinase C**
Almeida-Amaral, E.E., Pinheiro C.M., Lara, L. S., Caruso-Neves, C., Meyer-Fernendes, J. R.

L-109 **Studies of Polyphenol Oxidase and Peroxidase in Zucchini (Cucurbita pepo).**
T. M Silva; F. M. Lopes and K.F. Fernandes.

Título dos Resumos

L-110 **Activation of the Protease THIMET-Oligopeptidase E.C.3.4.24.15 by Cytochrome *C***
Ferreira, J.C.; Castro, L.M.; Ferro, E.S.; Nantes, I.L.

L-111 **FURTHER STUDIES ON PEPTIDE SYNTHESIS MEDIATED BY LIPASES**
N. R. Nishikido, C. W. Liria and M.T.M. Miranda

L-112 **Losac (a factor X activator from *Lonomia obliqua* bristles) is able to induce antiapoptotic and mitogenic effects on HUVECs (human umbilical vein endothelial cells) and stimulate molecules involved in these processes.**
Flores, M.P.A.; Fritzen, M.; Chudzinski-Tavassi, A.M.

L-113 **CATHEPSINS B AND L AS DEGRADING ENZYMES IN PANCREATIC ENDOCRINE FUNCTION**
Nunes GLC, Manso ED, Dyszy FH, Miranda A, Nakaie CR, Tersariol ILS, Almeida PC

L-114 **Purification and partial characterization of a 10 kDa β–N-Acetylglycosaminidase from hepatic extracts of the mammal sea *Sotalia fluviatilis***
J.E. Gomes Júnior, R.M. Nascimento, C.S. Macedo, P.C. Santos, A.L.M. Lima, L.D.M. Matta and L.R.D. Abreu

L-115 **cDNA Cloning, Expression and Biological Characterization of Five Isoforms of Dermonecrotic Toxins from *Loxosceles intermedia* (Brown Spider) Venom Gland**
Pigozzo, R.B.; da Silveira, R.B.; Toma, L.; Veiga, S.S.; Nader, H.B.; Dietrich, C.P.

L-116 **Stability and oligomerization of Jaburetox 2Ec, an insecticidal recombinant peptide derived from Canatoxin.**
Real-Guerra, R., Stanisçuaski, F. and Célia R. Carlini.

L-117 **Purification and characterization of one of the ways of the α-galactosidase of the fungus *Aspergillus terreus*.**
M.A. Oliveira, J.G. Ferreira, A. P. Reis, M.N. Almeida, V.M. Guimarães, S.T. Rezende.

L-118 **Proteolysis of Canatoxin: Characterization Of *Callosobruchus maculatus* Digestive Enzymes Involved In The Process**
Stanisçuaski, F., Postal, M. and Carlini, C.R

L-119 **Extracellular Adenine Nucleotides Hydrolysis In Hepatic Stellate Cells.**
Andrade, C.M.B.; Roesch, G.C.; Wink, M.R.; Guaragna, R.M.; Borojevic, R.; Battastini, A.M.O.; Guma, F.C.R.

L-120 **Expression of soybean (*Glycine max* (L.) Merril) ubiquitous urease in tobacco (*Nicotiana tabacum* and antifungal activity of soybean ureases**
Becker-Ritt, A.B.; Martinelli, A.H.S.; Fiuza, L.M.; Pasquali, G.; Carlini, C.R.

L-121 ***Boophilus microplus* larvae cysteine endopeptidase: an improved purification protocol**
Seixas, A.; Estrela, A.; Ceolato, J.; Termignoni, C

L-122 **EXPRESSION OF MYOSIN VB IN ESCHERICHIA COLI**
SantAnna M.L.; Almeida W.L.; Salerno V.P.;Sorenson M.M.;Cameron L.C.

L-123 **PARTIAL PURIFICATION AND CHARACTERIZATION OF TRYPSIN FROM CREVALLE JACK (Caranx hippos) PYLORIC CAECA**
AMARAL, I.P.G.; LINS, E.J.F.; CARVALHO Jr., L.B.; & BEZERRA, R.S.

L-124 **ALKALINE PROTEASES FROM THE BROWN SHRIMP (*Farfantepenaeus subtilis*) HEPATOPANCREAS**
BUARQUE, D. S.; AMARAL, I. P. G.; CASTRO, P. F.; CARVALHO Jr, L. B. & BEZERRA, R. S.

L-125 **Initial characterization of three proteolytic fractions from the latex of *Euphorbia milii*.**
Moro, L.P.; Peres,P.; Cabral, H. and Bonilla-Rodriguez, G.O.

L-126 **Ecto-phosphatase activity on the surface of the rat intestine**
Cosentino, D. G.; Amazonas, J. N.; Meyer-Fernandes, J. R.

L-127 **The effect of water activity on the kinetic parameters of trypsin.**
Ouchi, R.Y.; Okamoto, D.N.; Cabral, H.; Peres, P.; Okayama, A.; Colombo, M. F.; Bonilla-Rodriguez, G. O.

L-128 **Analysis of the effects of cationic tensoactives on the structural and rnfunctional properties of trypsin.**
Okamoto D.N.; Cabral H.; Ouchi R.Y.; Peres P.; Fossey, M.A.; Tiera, M.J.; Tiera, V.A.O.; Fertonani, I.A.P. and Bonilla Rodriguez G.O.

L-129 **Extracellular Inosine increases Matrix Metalloproteinase-9 activity in RAW 264.7 macrophages.**
Souza, L.F.; Barreto, F.; Bernard, E.A.

L-130 **Heavy metal toxicity transfer from mother to newborn expressed by the inhibition of the erytrocite delta-aminolevulinate dehidratase (E.c. 4.2.1.2.4)**
B. C. Cemim; M. M. Braga and T. Dick

L-131 **DIGESTIVE ALKALINE PROTEASES FROM A BRAZILIAN MARINE SHRIMP (*Farfantepenaeus paulensis*) HEPATOPANCREAS**
BUARQUE, D. S.; AMARAL, I. P. G.; CASTRO, P. F.; LEMOS, D.; CARVALHO Jr, L. B. & BEZERRA, R. S.

L-132 **Glycosaminoglycans Affect Amidolytic Activity of Elastase**
Giordano-Neto, B.; Cruz-Silva, I; Gozzo, A.J; Nunes, V.A; Nader, H.B.; Sampaio, M.U; Araujo, M.S

L-133 **Characterization of Extracellular Proteinases of *Aspergillus sulphureus* Expressed in a Syntethic Insectan Medium**
Santa-Izabel, AA; Branquinha, MH, Moraes AM; Borba, CM; De-Simone, SG

L-134 **Influence of Calcium Supplementation on the Indicators of Lead (Pb) Exposure in Climacteric Women**
Conterato, G.M.M.; Augusti, P.R.; Hahn, M.; Unfer,T.C.; Rocha,J.B.T.; Silva,J.C.; Aita, M.H.C.; Emanuelli, T.

L-135 **Salivary peroxidases activity in smokers and no smokers**
Ponsoni, E.J.; Orrico, S.R.P.; Brunetti, I.L.; Fonseca, L.M.; Ximenes, V.F.; Oliveira, O.M.M.F.

L-136 **ENZYMATIC ACTIVITIES IN HUMAN PERICARDIAL FLUID AND PLASMA**
Rodrigues, M.L.P.; Teodoro, L.G.V.L.; Ferreira, H.M.; Hial, V.; Parolini, M. T.; Juliano, L.; Juliano, M.A.; Gomes, R.A.S.

2-Resumos.pmd 68 6/6/2005, 12:38

Estrutura e Função de Carboidratos e Glicoconjugados

M-1 **Methylation-GC-MS analysis of arabinofuranose- and galactofuranose-containing structures: rapid synthesis of partially *O*-methylated alditol acetate standards**
Guilherme L. Sassaki; Marcello Iacomini; Philip A. J. Gorin

M-2 **Inhibition of the binding of P- and L-selectins to sialyl-Lewis^x and LS180 colon carcinoma cells by invertebrate glycosaminoglycans.**
Lianchun Wang; Lubor Borsig; Jeff Esko; Mauro S. G. Pavão

M-3 **Glycoproteome of *Caenorhabditis elegans*: From histochemistry to molecular characterization.**
Emerson Soares Bernardes; Daniela Smocking Rosa; Carlos Eduardo Winter; Maria Cristina Roque-Barreira; José César Rosa

M-4 **Biochemical Response of the Joint to Cyclic Muscular Electrical Stimulation**
Benevides, G. P.; Barbosa, A. C.; Gomes, L.

M-5 **Glycosphingolipid-enriched microdomain (GEM), role in cell growth regulation, and effect of GM3 and tetraspanin on cross-talk of integrins with growth factor receptors**
Marcos S Toledo; Erika Suzuki; Kazuko Handa; Senitiroh Hakomori

M-6 **Transfection of Endothelial Cells with EJ-*ras* Oncogene Affects Cell Cycle and the Expression of Hyaluronic Acid, Syndecan-4, Epimerase and Sulfotransferases.**
Lopes, C.C.; Córdula, C.R.; Toma, L.; Pinhal, M.A.S.; Nader, H.B.; Dietrich C.P.

M-7 **A fucan from Dictyota menstrualis rninhibits leukocyte migration to the peritoneum**
I. R. L. Albuquerque, L. S. Costa, S. L. Cordeiro, M. S. S. P. Costa, H. A O. Rocha, E.L. Leite

M-8 **Effect of an arabinogalactan (ARAGAL) from the gum of *Anadenanthera colubrina* (Angico branco) on interleukins, TNF-alpha and IFN ^{3}, released by peritoneal macrophages.**
Moretão, M. P.; Oliveira, C. C.; Buchi, D. F.; Iacomini, M.; Oliveira, M. B. M.

M-9 **A novel method of glycosidation to obtain isopropylidene derivatives of β-mannofuranose: methyl-, isobutyl-, *n*-octyl- and benzyl-β-Man*f***
Sassaki, G.L and Gorin P.A.J.

M-10 **New Sulfated Galactan and Fucans from five species of sea urchins**
Castro, M.O., Santos, L.L., Aquino, R.S., Hoshi, M.; Vilela-Silva, A.C.E.S. and Mourão, P.A.S.

M-11 **Variability of Exocellular Polysaccharides Produced by Endophyte Nitrogen-Fixing Bacteria**
R.V. Serrato; G.L. Sassaki; L.M. Cruz; R.A. Monteiro; F.O. Pedrosa; P.A.J. Gorin; M. Iacomini

M-12 **Sulfated galactans in the cell wall of seagrass: a possible adaptation to the marine environment?**
Aquino, R.S. and Mourão, P.A.S.

M-13 **Identification of polysaccharides that may be involved in reproduction and development in the snail *Achatina fulica* (Bowdich 1822).**
T.C.R.G. Vieira; L.E.Nasciutti; L.C.F Silva

M-14 **Selective 2-desulfation of sulfated fucans by mild acid hydrolysis: an approach to prepare tailored oligosaccharides.**
Pomin, V.H.; Valente, A.P.; Pereira, M.S.; and Mourão, P.A.S.

M-15 **Effect of fucoidan from *Fucus vesiculosus* in cellular influx and cellular viability of zymosan-induced arthritis in rats.**
C.A.C. Xavier; M.G.L. Santos; T.C.G. Azevedo; V.S. Félix; C.T. Marques; A.C.R.M. Leite; V.C.C. Girão; E.L. Leite.

M-16 **Seasonal variation in the biosynthesis of sulfated fucans of the sea urchin *Lytechinus variegatus*.**
Cinelli, L.P; Castro, M.O; Vilela-Silva, A.C; Valente, A.P; Mourão, P.A.S.

M-17 **Structural composition and anticoagulant activity of dermatan sulfate from the skin of the electric eel, *Electrophorus electricus***
M. L. S. Souza, C. F. Freitas, N. N. Tavares, J. M. M. Dellias, F. R. Melo, A. H. Voloch, L. C. F. Silva

M-18 **Molecular dynamics and atomic charges calculations in the study of heparin conformation in aqueous solution**
Becker, C. F.; Guimarães, J. A.; Verli, H.

M-19 **A type II arabinogalactan isolated from an infusion of *Maytenus ilicifolia***
T.R. Cipriani; C.G. Mellinger; G.L. Sassaki; P.A.J. Gorin and M. Iacomini

M-20 **STRUCTURAL ANALYSIS OF POLYSACCHARIDE FROM THE GUM EXUDATE OF PEACH TREES**
SIMAS, F. F.; WAGNER, R.; BONKERNER, A.; PEREIRA, M. S. A.; GORIN, P. A. J.; IACOMINI, M.

M-21 **Antinflammatory effect of Heparin and Dermantan sulfate obtained from the ascidian *Styela plicata* in an experimental model of inflammatory bowel disease in rats.**
Celso L. R. Belmiro; Heitor S. P. Souza; Celeste C. S. Elia; Morgana T. L. Castelo-Branco; Leandra M. C. Melin; Flávia R. Silva; Mauro S. G. Pavão

M-22 **Purification and characterization of a chondroitin sulfate glycosaminoglycan from the zebrafish *Brachydanio rerio*.**
Aline R.C. de Souza; Vinicius Cerqueira; Mauro S. G. Pavão.

M-23 **CHANGES IN HEPARAN SULFATE STRUCTURE DURING CEREBELLAR DEVELOPMENT**
Araujo,A.P. B.; Torquato,R. J. S.; Almeida, I.C. and Porcionatto, M.A.

M-24 **Heparin cofactor II-independent antithrombotic activity of ascidian dermatan sulfates in an arterial thrombosis model in rats involves inhibition of thrombin-induced platelet activation.**
Santos, J.C; Silveira, C.B.M.; Monteiro, R.Q.; Pavão, M.S.G.

M-25 **Anticoagulant and hemorrhagic activities of the sulfated polysaccharides from *Fucus vesiculosus***
T. C. G. Azevedo; M. G. L. Santos; L. A. R. Souza; C. A. C. Xavier; F. R. F. Silva; C. M. P. Guerra; H. A. O. Rocha; S. F. Chavante; F. W. Oliveira; E. L. Leite

Título dos Resumos

M-26 **Sulfated polysaccharides from marine sponge cells**
Eduardo Vilanova; Marcio Custódio; Paulo A. S. Mourão

M-27 **Isolation, Structural Characterization and Pharmacological Activities of a Sulfated Fucan Extracted from the Brown Algae *Dyctiota menstrualis*.**
Alves, L.G.; de Medeiros, V.P.; Andrade, G.P.V.; Mendes, A.; Trindade, E.S.; Rocha, H.A.O.; Leite, E.L.; Nader, H.B.; Dietrich, C.P.

M-28 **BIOMOLECULES FROM SYMBIONTS OF THE JELLYFISH *Phyllorhiza punctata***
Souza, L. M.; Iacomini, M.; Gorin, P. A. J.; Sassaki, G. L.

M-29 **Dermatan Sulfate and Heparan Sulfate as antithrombotics glycosaminoglycans in vessel wall**
M. P. Stelling; A.M.F. Tovar; P.A.S. Mourão.

M-30 **GENETIC VARIANTS OF THE SULT1A1 IN BRAZILIAN POPULATION**
W.O. Pereira, J.W. Queiroz, H.B. Nader and S.M.B. Jerônimo

M-31 **CHEMICAL AND BIOLOGICAL ASPECTS OF AN ARABINOGALACTAN FROM THE MEDICINAL HERB *Phyllanthus niruri* (QUEBRA-PEDRA)**
C. G. MELLINGER, E. R. CARBONERO, MARSON, B. M., G. R. NOLETO, T. R.CIPRIANI, M. B. M. OLIVEIRA, P. A. J. GORIN, M. IACOMINI

M-32 **Purification and Characterization of a Peptide linked Keratan Sulphate and Chondroitin Sulphate from Urine of Patients with Morquio Syndrome.**
V.J. Coulson-Thomas, P. S Braghiroli, Y.M. Michelacci, T. G. Ferreira, L.M.J Albano, C.A Kim, and L.Toma

M-33 **Sulfated galactans from three species of seagrasses. Evolutionary implications.**
Aquino, R.S., Gaspar, G.C., Valente, A.P. and Mourão, P.A.S.

M-34 **Isolation, characterization and anticoagulant properties of a heparin-like glycosaminoglycan from the body of the ascidian *Styela plicata Chordata-Tunicata*.**
Silveira, C.B.M.; Santos, J.C. Gandra,M.; Mesquita, J.M.F. Pavão, M.S.G.

M-35 **Xyloglucans from *Hymenaea courbaril* - effectiveness for dyslipidemia in hamsters with diet - induced hypercholesterolemia**
Paschoarelli, P.V.G.; Martinello, F.; Franco, J.J.; Zanardo, A.F.; Soares, S.M.; Rechia, C.G.V.; Uyemura, S.A.

M-36 **Fucosylated chondroitin sulfate prevents thrombin- and collagen-induced platelet aggregation**
Glauser, B.F.; Monteiro, R.Q.; Mourão, P.A.S.

M-37 **Involvement of Ganglioside GM3 in the Proliferation of a Myeloid Precursor Progenitor**
Santos, A.X.S.; Andrade, C.M.B.; Ziulkoski, A.L.; Borojevic, R.; Trindade, V.M.T. e Guma, F.C.R.

M-38 **Low molecular mass carbohydrates distribution in Brazilian Red seaweeds HPLC analysis and quimiotaxonomic significance.**
França, R.A.;Ascêncio, S.D.; Duarte, M. E. R.; Noseda, M. D.

M-39 **Are glycosphingolipids important determinants of drug resistance in *Candida albicans*?**
Teixeira F.S., Oliveira T.M., Bittencourt V.C.B., Pinto M.R. and Barreto-Bergter E.

M-40 **Purification and Structural Characterisation of (1→03);(1→6)-β-D-glucans (Botryosphaerans) from *Botryosphaeria rhodina* Grown on Sucrose and Fructose as Carbon Sources: a Comparative Study.**
Martinez, P.F.; Izeli, N.L.; Silva, I.R.; Cardoso, M.S.; Barbosa, A.M.; Dekker, R.F.H.; Silva, G.V.J.; Corradi da Silva, M.L.

M-41 **Biochemical characterization of sulfated polysaccharides from the body of four species of earthworms (Annelida, Oligochaeta) and histochemistry of their integument.**
L.F.Dimas; T.C.R.G. Vieira; L.E. Nasciutti and L.C.F. Silva

M-42 **DETERMINATION OF THE STRUCTURE OF THE POLYSACCHARIDE PINEAPPLE (*Ananas comosus* (L.) Merrill) GUM**
PEREIRA, G. C. Z.; WAGNER, R.; SIMAS, F. F.; IACOMINI, M.; GORIN, P. A. J.

M-43 **Decorin-like proteoglycan co-localizes with collagen fibers in the extracellular matrix of the primitive invertebrate *Styela plicata* (CHORDATA-TUNICATA)**
Eliene O. Kozlowski; Mario Grandra; Christina Takiya; Bernardo M. O. Pascarelli; Leonardo R. Andrade; Cintia M. Barros; Mauro S. G. Pavão

M-44 **Conformational study and molecular dynamics simulations of galactans and fucans in aqueous solutionrn**
Becker, C. F.; Verli, H.; Mourão, P. A. S.; Guimarães, J. A.

M-45 **Extraction and purification of free oligosaccharides in *Maytenus ilicifolia***
J.M. Uratani; T.R. Cipriani; C.G. Mellinger; P.A.J. Gorin; G.L. Sassaki and M. Iacomini

M-46 **THE PRESENCE OF GLYCOPROTEINS IN MEDUSA *Phyllorhiza punctata***
Sari, R.S.; Souza, L. M.; Gorin, P. A. J.; Iacomini, M.; Sassaki, G. L.

M-47 **Isolation and anticoagulant activity of low molecular weight fractions obtained from the dermatan sulfate of the ascidian *Styela plicata***
Eliene O. Kozlowski, Christiane F. S. Silva, Bruno S. Requiel and Mauro S. G. Pavão

M-48 **Calcium enhances sulfated galactan catalysis of the antithrombin-factor Xa inhibition reaction by a bridging mechanism**
Rezende, R.M.; Melo, F.R.; Monteiro; R.Q.; Mourão, P.A.S.; Pereira, M.S.

M-49 **Polysaccharides from *Lafoensia pacari***
R. Domit; J.F.Bento; C.L.O.Petkowicz; J.L.M.Silveira

M-50 **Balance between the renal and hepatic removal of exogenously administered chondroitin sulfate. Effect of the molecular size and chemical structure.**
Pecly I.M.D., Melo Filho N.M., Mourão P.A.S.

M-51 **Potential Involvement of Glucuronoxylomannan in the Interaction of *Cryptococcus neoformans* with Human Lung Cells.**
Fabiane M. Barbosa, Fernanda L. Fonseca, Carla Holandino, Celuta S. Alviano, Leonardo Nimrichter and Marcio L. Rodrigues

M-52 **Structural Analysis Of Polysaccharides From Different Parts Of *Phyllanthus niruri***
B. M. MARSON.; C. G. MELLINGER.; T. R. CIPRIANI.; P. A. J. GORIN.; M. IACOMINI.

M-53 **Structure and anticoagulant activity of a sulfated galactan from the red alga *Gelidium crinale*. Is there specific structural requirement for the anticoagulant action?**
Pereira, M. G.; Benevides, N. M.B.; Melo, M. R. S.; Valente, A. P.; Melo, F. R. and Mourão, P. A. S.

M-54 **Toxicity evaluation of the epichlorohydrin cross-linked *Adenanthera pavonina* L endospermic galactomannan.**
Araújo, R.F.A., Rocha, I.V., Cândido, C.S., Moreira, R.A., Monteiro-Moreira, A.C.O.

M-55 **Heparinoids isolated from *Artemia franciscana***
Moura,C.P; Brito, A.S.; Santos, V.O; Andrade, G.P.V; Bisio, A.; Torri,G.; Rocha,H.A.O; Leite,E.L.; Chavante, S.F

M-56 **Galactomannans with novel structures from the lichen *Roccella decipiens***
Elaine R. Carbonero; Lucimara M. C. Cordeiro; Caroline G. Mellinger; Guilherme L. Sassaki; Philip A. J. Gorin and Marcello Iacomini

M-57 **Fucoidans fractions have inhibitory effect on peritonitis and ear edema swelling**
M.G.L. SANTOS; C.A.C. XAVIER; C.M.P. GUERRA; T.C.G. AZEVEDO; F.R.F. SILVA; T.B.M. SAMPAIO; H. A. O. ROCHA; E.L. LEITE

M-58 **CHEMICAL STUDIES ON THE GUM OF *Opuntia ficus indica* (PALMA GIGANTE)**
WAGNER, R.; GORIN, P. A. J.; IACOMINI, M.; DELGOBO, C. L.

M-59 **Urinary Hyaluronan Content is an Useful Marker to Predict Residual Bladder Cancer**
Passerotti, C.C.; Kobayashi, E.Y.;Mendes, A.; Leite, K.R.M.; Jorge, R.C.; Avakian, K.C.; Srougi, M.; Martins, J.R.M.; Nader, H.B.; Dietrich, C.P.

M-60 **Involvement of glycoconjugates in the differentiation and growth of *Pseudallescheria boydii***
M.R. Pinto, E.F. Silva, L.C.L Lopes and E. Barreto-Bergter.

M-61 **Structural and antigenic properties of a new cerebroside from the parasitic forms of *Fonsecaea pedrosoi***
Nimrichter, L.; Barreto-Bergter, E.; Cerqueira, M.D.; Nakayasu, E.S.; Alviano C.S.; Almeida, I.C. and Rodrigues, M.L.

M-62 **Isolation and characterization of the polysaccharides from the root of *Anadenanthera colubrina* (Angico branco)**
Mattana, F. C.; Bombarda, A. P.; Kadowaki, M. K.; Wagner, R.; Sassaki, G.L.; Osaku, C. A.

M-63 **Extraction and characterization of the polysaccharides from the root of *Senna multijuga***
Bombarda, A.P.; Mattana, F.C.; Kadowaki, M. K.; Wagner, R.; Sassaki, G.L.; Osaku, C. A.

M-64 **The anticoagulant action of a sulfated galactana starts by its initial binding to thrombin instead of antithrombin**
Melo, F. R., Melo, E. I., Pereira, M. S., Monteiro, R. Q. and Mourão, P. A. S

M-65 **POLYSACCHARIDE PRESENT IN THE GUM OF *Vochysia tucanorum***
WAGNER, R.; SIMAS, F.F.; BRITO, J.O., ANGELI, A., PEREIRA, G.C.Z.; DELGOBO, C.L.; WORANOVICZ-BARREIRA, S.M.;. IACOMINI, M.; GORIN, P.A.J.

M-66 **Fucosylated chondroitin sulfate is an oral antithrombotic polysaccharide.**
Fonseca,R.J.C.; Mourão, P.A.S

M-67 **Interaction *Pseudallescheria boydii*- Innate Immune System: Involvement of MyD88, CD14 and TLR**
Bittencourt, V.C.B.; Figueiredo, R.T.; Haido, R.M.T.; Bozza, M.T.; Barreto-Bergter, E.

M-68 **Stimulation of NKT cells by B16F10-Nex2 melanoma cell glycoconjugates**
Dias, B.R.; Rodrigues, E.G.; Nimrichter, L.; Almeida, I.C.; Travassos, L.R.

M-69 **Studies on the Rheology of Three Botryosphaerans; Exopolysaccharides Produced by *Botryosphaeria rhodina***
A.F.D. Vasconcelos; P.R.M.S. Fonseca; M.S. Cardoso; A.E. Job; R.F.H. Dekker; A.M. Barbosa; A.L.B. Penna; M.L. Corradi da Silva

M-70 **Structure of two glucans and a galactofuranomannan from the lichen *Umbilicaria mammulata* (Ach.) Tuck. Gier Kendrick**
E.R. Carbonero; F.R. Smiderle; A.H.P. Gracher; C.G. Mellinger; P.A.J. Gorin; M. Iacomini

M-71 **Heparanase Expression in the Mononuclear Fraction of Blood Samples from Breast Cancer Patients**
Theodoro, T.R.; Semedo, P.; Suarez, E.R.; Fonseca, F.L.A.; Sant'Ana, A.V.L.; del Giglio, A.; Nader, H.B.; Pinhal, M.A.S.

M-72 **An arabinogalactan isolated from soybean flour**
M. L. C. Bertolini; T. R. Cipriani; C. G. Mellinger; P. A. J. Gorin; M. Iacomini

M-73 **Structure, antibacterial and anticoagulant activity of sulfated galactans from the red alga *Halymenia floresia***
Amorim, R.C.N.; Holanda, M.L.; Medeiros, S.T.; Mourão, P.A.S.; Melo, V.M.M.; Benevides, N. M.B.

M-74 **Isolation and Characterization of Polysaccharides from Cocoa Fruit Shell**
M.M.T. Rosário, M. Gazzoni, F. Reicher and C.L.O. Petkowicz

M-75 **Isolation of a Mannan from the Seeds of *Cassia fastuosa***
J. F. Bento, F. Reicher and C. L. O. Petkowicz

M-76 **PRODUCTION OF OLIGOSACCHARIDES FROM POLYSACCHARIDES OF TWO RED SEAWEEDS: *Eucheuma denticulatum* and *Gracilaria domingensis*.**
Ducatti, D.R.B.; Duarte, M.E.R.; Noseda, M.D.

M-77 **Concentration and anticoagulant activity of glycosaminoglycans from organs used for transplantation: Evidence that changes in the glycosaminoglycan does not contribute for increased thrombosis in transplanted organs**
Sarcinelli-Luz, B.S.L.; Teixeira, L.A.C.; Tovar, A.M.F.; Mourão, P.A.S.

M-78 **Structural analysis of carrageenans synthesized by the red seaweed *Meristiella gelidium***
Vaz, T., Faria, P.C.S., Noseda, M.D., Duarte, M.E.R.

M-79 **Thromboresistant surface of algae polysaccharide collagen films**
Macêdo, A.A.M., Figueiró, S.D., Melo, M.R.S., Freitas, A.L.P., Magalhães,S.M.M., Galiza Neto, G.C., Carvalho, E.B., Góes,J.C., Sombra, A.S.B., Moreira, R.A.

M-80 **Heparin-Like Compounds and other Antithrombotic Drugs: Antithrombotic and Hemorrhagic Activities and Mechanism of Binding to Endothelial and Smooth Muscle Cells in Culture.**
Bouças, R.I.; Trindade, E.S.; Moraes, F.A.; Jarrouge, T.R.; Steinberg, M.; Nader, H.B.; Dietrich, C.P.

M-81 **Serological Biochemical profile of rat supplemented with Gum Arabic, synthetic cholesterol, flax seed and oil.**
Tomio, T.; Souza, L. M.; Melo, S.; Gorin, P. A. J.; Tischer, C. A.

Título dos Resumos

M-82 **Comparative Study Between Two Endothelial Cells From Diferent Origins.**
Dominato, J.A.A., Trindade, E.S., Bouças, R.I., Dreyfuss, J.L., Lopes, C.C., Nader, H.B. and Dietrich, C.P.

M-83 **GALACTANS SULFATE FROM THE RED SEAWEED *Halymenia floridana*}(*Halymeniales, Rhodophyta***
Colodi, F. G.; Zibetti, R.G.M.; Noseda, M.D.; Duarte, M.E.R.

M-84 **Anticoagulant heparan sulfate is more preponderant in veins than in arteries**
de Mattos, D.A.; Tovar, A.M.F.; Mourão, P.A.S.

M-85 **The structure of sulfated galactan and neutral xylan from the red seaweed *Amansia multifida.***
Cassolato, J.E.F.; Noseda, M.D.; Duarte, M.E.R.

M-86 **Viscoelastic Property of Xyloglucan– Tetraborate Complex**
Valenga, F.; Sierakowski, M. R.

M-87 **The Stimulus of Synthesis of Heparan Sulfate Elicited by Heparin is Dependent of the Conformation of the Compound**
Trindade, E.S.; Medeiros, V.P.; Nascimento, F.D.; Moraes, F.A.; Jarrouge, T.R.; Pereira, F.Z.; Bouças, R.I.; Nader; H.B.; Dietrich, C.P.

M-88 **Surviving Cells After Photodynamic Therapy: Expression of Glycosaminoglycans and Cell Cycle using Wild-Type and Transformed Cells**
Pazos, M.C.;Simioni, A.R.; Tedesco, A.C.; Lopes, C.C.; Nader, H.B.; Dietrich, C.P.

M-89 **Purification and partial characterization of glycosphingolipids enriched microdomains (GEMs) from fungi**
Guimarães, L.L.; Toledo, M.S.; Tagliari,L.; Jorge, F.A.; Straus, A.H.; Takahashi, H.K.

M-90 **Lithium Stress in *Candida albicans***
Martins L.F.; Villena, S. N.; Cardoso, F.F.; Heise, N.; Montero-Lomeli, M., Previato; J.O., Mendonça-Previato, L.

M-91 **PREPARATION OF AN AGARAN-DERIVED 3-O-SULFATED DISACCHARIDE ALDITOL**
Gonçalves, A.G.; Grindley, T.B.; Duarte, M.E.R.; Noseda, M.D.

M-92 **Analyses of sulfated glycosaminoglycans from a new species of marine shrimp.**
Santos, V.O; Brito, A.S; Albuquerque, E.M.M; Andrade, G.P.V Santos, E.A; Torri, G.; Bisio, A.; Leite, E.L; Oliveira, F.W and Chavante, S.F

M-93 **ANALYSIS OF OLIGOSACCHARIDES FROM AGARANS AND CARRAGEENANS BY CAPILLARY ELECTROPHORESIS.**
Paranha, R. G; Duarte, M. E. R.; Gonçalves, A. G.; Noseda, M. D.

M-94 **Structural Aspects Of The Acidic Galactan From The Mollusc Po*macea sp***
Cruz, A.K.M.; Albuquerque, E.M.M.; Souza, L.M.; Brito, A.S.; Bisio, A.; Torri, G.; Chavante, S.F.; Leite, E.L.; Sales, M.P. and Oliveira, F.W.

M-95 **SULFATED XYLOMANNANS FROM THE RED SEAWEEDS *Galaxaura marginata* AND *Tricleocarpa fragilis.***
Viana, A.G., Duarte, M.E.R., Noseda, M.D.

M-96 **Comparative Analysis of Xyloglucan from Leguminous Seeds**
JÓ, T. A.; SIERAKOWSKI, M. R.

M-97 **GLYCOSPHINGOLIPID EXPRESSION IN SPINOCELLULAR CARCINOMA OF THE UPPER AERODIGESTIVE TRACT**
Marques Filho,MF; Guimarães,LL; Tanaka,AK; Cervantes, O; Straus,AH; Takahashi,HK.

M-98 **Structural Requirements for some Pharmacological Activities of Fucan A from the Brown Seaweed *Spatoglossum schröederi***
Medeiros, V.P.; Trindade, E.S.; Moraes, F.A.; Nascimento, F.D.; Leite, E.L.; Rocha, H.A.O.; Nader, H.B.; Dietrich, C.P.

M-99 **Peculiar Heparinoids from the Crab *Goniopsis Cruentata*: Structure, Pharmacological Activities and Interaction with the Extracellular Matrix of Endothelial Cells**
Andrade, G.P.V.;Santos, E.A.;Alves, L.G.; Medeiros, V.P.; Chavante, S.F.; Trindade, E.S.; Nader, H.B.; Dietrich, C.P.

M-100 **Assessment of Urinary Hyaluronan on the Diagnosis and Follow up of Bladder Carcinoma**
Passerotti, C.C.; Mendes, A.; Leite, K.R.M.; Nogueira, M.D.; Coelho, B.V.; Lima, M.L.O.; Srougi, M.; Martins, J.R.M.; Nader, H.B.; Dietrich, C.P.

Estrutura e Função de Proteínas

N-1 **Rational Design of New Potential Drugs for Leishmaniasis Using Molecular Modeling**
Rocha, M.R.M.; Reboredo, B.M.; França, T.C.C.; Tinoco, L.W.; Figueroa-Villar, J.D.

N-2 **Specificity in DNA recognition by peptide from papillomavirus E2 protein**
Joana Faber-Barata, Ronaldo Mohana-Borges; Luís Maurício T. R. Lima

N-3 **The amino-terminal PrP domain is crucial to modulate prion misfolding and aggregation**
Cordeiro, Y.; Kraineva, J.; Gomes, M. P. B.; Lopes, M. H.; Martins, V. R.; Lima, L. M. T. R.; Foguel, D.; Winter, R.; Silva, J. L.

N-4 **Action mechanism of bactericidal peptides derived from Myotoxin II.**
M. R. Lourenzoni, L. Caseli, R. J. Ward and L. Degréve

N-5 **MOLECULAR DYNAMICS SIMULATION OF THE *BACILLUS SUBTILIS* & XYLANASE AND SOME MUTANTS.**
Vieira.S.D, Degreve.L, Lourenzoni. M, Ward. R, Ruller, R.

N-6 **Thermal denaturation of the Na,K-ATPase solubilized and incorporated in DPPC:DPPE-liposomes.**
Rigos, C.F.; Santos, H.L.; Lopes, M.L.; Ward, R.J. and Ciancaglini, P.

N-7 **Recombinant production of the COOH-terminal domain of the *Schistosome mansoni* cathepsin D-like enzyme**
Silva-Jr, F. P., Buscacio, L. F. A., Salles, C. M. C., Zanchin, N. I. T., Pertinhez, T.A. and De Simone S.G.

N-8 **EVALUATION OF THE PHYSICOCHEMICAL AND INTERFACIAL PROPERTIES OF *Eugenia uniflora* SEED LECTIN**
Cesar A.S. Andrade, Maria D.L. Oliveira, Maria T.S. Correia, Luana C.B.B. Coelho, Celso P. de Melo, Nereide S. Santos-Magalhães

N-9 **Folding and aggregation studies of monomer of amyloidogenic protein transthyretin (M-TTR)**
Palmieri, L.C.; Silva, P.S.F.; Kelly, J.W.; and Foguel, D.

2-Resumos.pmd 72 6/6/2005, 12:38

N-10 **HUMAN ATAXIN-3 STRUCTURAL ANALYSIS: PRELIMINARY DATA**
Garcia, M.C.C.; Benedetti, C.E.; Oliveira, C.L.P.; Torriani, I.C.L., Lopes-Cendes, I.

N-11 **Expression and characterization of proteins HlyX and LipL32 from *Leptospira interrogans* serovar Copenhageni in *Escherichia coli***
Hauk, P.; Ho, P.L.

N-12 **Occupancy of active site promotes specific structural and thermodynamic changes in human thrombin.**
Vivian de Almeida Silva; Robson Queiroz Monteiro; Luís Maurício T. R. Lima

N-13 **Structural insights on the sequential binding of NAD to tetrameric enzyme Glyceraldehyde-3-Phosphate Dehydrogenase glycosomal (GAPDH) from *Trypanosoma cruzi***
Güido R.V., Castilho M.S., Oliva G.

N-14 **Proteomic Analysis Of The Venom From The Social Wasp *Polybia paulista* (*Hymenoptera, Vespidae*)**
Santos, L.D.; Santos, K.S.; Resende, V.M.F.; Mendes, M.A.; Souza, B.M. and Palma, M.S.

N-15 **SUGAR-BINDING PROPERTIES OF A LECTIN-LIKE PROTEIN ISOLATED FROM *Pouteria torta* SEEDS AND THE STUDY OF ITS ANTI-BACTERIAL ACTIVITY**
A.P.A Boleti; M.G.M Freire; R.T. Araújo-Junior and M.L.R. Macedo

N-16 **Folding studies with hsp70: how a protein folder solves its own problem?**
Silva, F.M.; Borges, J.C.; Ramos, C. H. and Foguel, D.

N-17 **Probing Folding/Unfolding Processes in the Enzyme 5-Enolpyruvylshikimate 3-Phosphate Synthase from *Mycobacterium tuberculosis* Monitoring the H/D exchange by ESI-MS.**
Marques, MR.; Mendes, MA.; Oliveira, JS.; Basso, LA.; Santos, DS.; De Azevedo Jr, WF.; Palma, MS.

N-18 **Charge Effects in N-Terminal Extremity of the StII and its interaction with Models Membrane**
Pigossi, F.T.; Crusca, E.J.; Souza, F.C.; Vicente, E.F.; Schreier, S.; Alvarez, C.; Cilli, E.M.

N-19 **Evaluation of Melittin Structure, Conformation and Oligomerization in Solution Using Molecular Dynamics Simulation**
Terra, R.M.S.; Verli, H.; Guimarães, J.A.

N-20 **Atomic Force Microscopy -Mass Spectrometry (AFM-MS): A Novel Approach to Investigate Proteins.**
Andrade, A.C.; Silva, L.P.; Cunha, R.B.; Sousa, M.V.

N-21 **An analysis of the Head-to-Tail interaction of Tropomyosin by thermodynamic cycles**
Corrêa, F. and Farah, CS

N-22 **Biological Function of the Disintegrin and Cystein-Rich Domains of human ADAM9: Preliminary Results**
COMINETTI, M.R. and SELISTRE-DE-ARAUJO, H.S.

N-23 **Cloning, heterologous expression, purification of mouse quiescin-sulfhydryl oxidase (QSOX) and polyclonal antibody production**
Ikegami C.M.; Klassen G.; Laurindo F.R.; Camargo A.A.; Nakao L.S.; Zanata, S.M.

N-24 **DOUBLE LABELED P-TYPE ATPASES**
Mirian Fonseca; Julio Mignaco; Hector Barrabin; Helena Scofano

N-25 **MOLECULAR CHARACTERIZATION OF THE RECOMBINANT RHO FAMILY HOMOLOGUE ENZYME FROM *TRYPANOSOMA CRUZI* (TcRho1) AND DETERMINATION OF NUCLEOTIDE BOUND**
Pimenta Jr., A. A.; Garcia, W.; Nepomuceno-Silva, J. L.; Melo, L. D. B.; Lopes, U. G.; Garratt, R.C.; Thiemann, O. H.

N-26 **Crystallization and preliminary X-ray diffraction analysis of thioredoxin reductase I from *Saccharomyces cerevisiae***
Discola, K.F., Oliveira, M.A., Medrano, F.J., Alves, S.V., Netto, L.E.S. and Guimarães, B.G.

N-27 **Purification and structural characterization of new protease inhibitors from the seeds of *Acacia plumosa***
Lopes, J.L.S.; Moraes, D.I.; and Beltramini, L.M.

N-28 **Study of the differential expression of cell wall proteins on the yeast-like phase and conidia of *Sporothrix schenckii* by a proteomic approach**
Kubitschek-Barreira P.H.; Cardoso J.L.N.; Junqueira M.; Penha C.V.L.; Domont G.B.; Lopes-Bezerra L.M.

N-29 **PURIFICATION, CRYSTALLIZATION AND STRUCTURAL STUDIES OF THE JARARHAGIN A METALLOPROTEINASE/ DESINTEGRIN FROM THE SNAKE-VENOM OF *B. jararaca***
Muniz, J.R.C.; Ambrosio, A.L.B.; Selistre-de-Araujo, H.S.; Della Casa, M.S.; Moura-da-Silva, A.M.; Politi, V.; Oliva, G.; Garratt, R.C. and Souza, D.H.F.

N-30 **Purification and partial characterisation of a mucin-specific lectin from Echinoderma *Mellita quinquiesperforata***
QUEIROZ, A.F.S.; MOURA, G.E.D.D.; MOURA, R.M.; MONTEIRO, N.K.V.; FOOK, J.M.S.L.L.; TEIXEIRA, F.M.; OLIVEIRA, A.S.; MACEDO, L.L.P.; SANTOS, E. A.; OLIVEIRA, F.W.; SALES, M.P.

N-31 **Inactive *trans*-sialidase from *Trypanosoma cruzi* binds to CD43 and activates human neutrophils through ERK pathway**
Faragasso, M.S.; Alisson-Silva,F.; Koeller, C.M.; Dias, W.B.; Mendonça-Previato, L.; Previato, J.O.; Graça-Souza, A.V.; Todeschini, A.R.

N-32 **Expression and Purification of a Recombinant *Xanthomonas citri* Nitrate-Binding Protein**
Tofoli, F.; Balan, A.; Silva, S.L.F.; Ramos, C. H.; Ferreira, L.C.S.

N-33 **THE EFFECT OF 2,4-DINITROPHENOL (DNP) IN PRE-HYDROLYSIS AND POST-HYDROLYSIS STATES DURING THE MYOSIN CATALYTIC CYCLE**
De Paulo, R.F., Salerno, V.P., and Sorenson, M.M.

N-34 **Correlation between bactericidal and Ca^{2+}-independent membrane damaging activities of Bothropstoxin-I, a Lys49-PLA_2 from *Bothrops jararacussu* venom.**
Aragão, E.A.; Chioato, L. and Ward, R.J.

N-35 **Hemoglobins from the turtle *Phrynops geoffroanus Testudines, Chelidae*: Polymorphism and functional properties.**
Ferrarezi, A. L.; Ondei, L. S.; Peres, P., Bonini-Domingos, C. R.; Bonilla-Rodriguez, G. O.

2-Resumos.pmd 73 6/6/2005, 12:38

Título dos Resumos

N-36 **Computational Studies of HIV-1 Protease of B and non-B Subtypes complexed with ritonavir**
Batista, P.R.; Wilter, A.; Durham, E. H. A. B.; Pascutti, P. G.

N-37 **Studies of influenza virus hemagglutinin protein for high hidrostatic pressure.**
Borges, A.C., Silva, C.L.A., Foguel, D. Mestecky,J.,Silva,J.L L.Silva

N-38 ***Microgramma vaccinifolia*: SEASONAL EVALUATION OF HEMAGGLUTINATING ACTIVITY FROM FROND AND RHIZOME**
Albuquerque, L. P.; Araújo, R. M. S.; Coelho, L. C. B. B. and Paiva, P. M. G.

N-39 **Preliminary crystallization studies of proteins from *Xanthomonas axonopodis pv. Citri***
Hilario, E., Oliveira, J. C. F., Medrano, F. J.and Bertolini, M. C.

N-40 **Proteome Analysis in Hearts from Patients with Chronic Chagas Disease and Idiopathic Dilated Cardiomyopathy: Differential Protein Expression Profiles**
P.C. Teixeira; L.K. Iwai; R. Honorato; A. Fiorelli; N. Stolf; J. Kalil E. Cunha-Neto

N-41 **Backbone dynamics of recombinant ^{15}N Psd1 (Pisum sativum defensin 1) studied by ^{15}N relaxation NMR parameters**
Medeiros, LN.; Barreto-Berger, E.; Almeida, MS.; Kurtenbach, E.; Almeida, FCL. and Valente, AP.

N-42 **Purification of Platelet Glycoproteins Using Immobilized Molecular Forms from *Cratylia mollis* Lectin**
Araújo, F. F. B.; Alves, G. C.; Silva, M. C. C.; Lima, V. L. M.; Coelho, L. C. B. B; Paiva, P. M. G.; Correia, M. T. S.

N-43 **Antimicrobial Activity of *Eugenia uniflora* Seed Lectin (EuniSL)**
Oliveira, M.D.L., Andrade, C.A.S., Santos-Magalhaes, N.S., Coelho, L.C.B.B., Carneiro-da-Cunha, M.G., Correia, M.T.S.

N-44 **Endothelial cell signaling by *trans*-sialidase from *Trypanosoma cruzi***
Fajardo F.D.; Dias, W.B.; Girard, M.F.; Bouteille, B.; Mendonça-Previato, L.; Previato, J.O.; Todeschini, A.R.

N-45 **Electrochemical Potential Evaluation of Lectins from *Bauhinia monandra* Leaves and *Cratylia mollis* Seeds Interacting with Carbohydrates in Different Electrolytic Media**
Pimentel, J. C.; Silva, M. B. R.; Correia, M. T. S.; Souza, S. R.; Coelho, L. C. B. B.

N-46 **THE TRUNCATED HEPATITIS C VIRUS CORE PROTEIN CAN ADOPT AN INTERMEDIATED STRUCTURE IN THE PRESENCE OF SEVERAL LIGANTS**
Lima, S.M.B.; Souza, T.L.F.; Vaz, A.C.Q.; Peabody, D.S.; Silva, J.L. & Oliveira, A.C.

N-47 **Yeast Cytosolic Thioredoxins: Structure and Dynamics by NMR**
A. S. Pinheiro, G. C. Amorim, T. Losan, L. E. S. Netto, A. P. Valente and F. C. L. Almeida

N-48 **Cloning, Expression and Purification of DBD-hTRβ1 for Structural Studies**
Oliveira, M.N.; Santos, M.A.M.; Polikarpov, I.

N-49 **Structural analysis of GC-1 selectivity on thyroid hormone receptors**
Lucas Bleicher; Ricardo Aparício; Fábio Macedo Nunes; Ana Carolina Migliorini Figueira; Sandra Martha Gomes Dias; André Luís Berteli Ambrósio; Igor Polikarpov

N-50 **Directed Evolution of Thermostability in the Xylanase A from *Bacillus subtilis***
Ruller, R.; Ferreira, T.L.; Murakami, M.T.; Arni, R.K. and Ward, R. J.

N-51 **Expression, purification and characterization of rat protein tyrosine phosphatase eta catalytic domain**
Matozo,H.C.; Santos,S.M.; Santos,M.A.M.; Portugal, R.V.; Iuliano,R.; Fusco, A.; and Polikarpov, I.

N-52 **CVL I, a lectin from the marine sponge *Cliona varians*.rn Purification, characterization and the effect on the bacterial and fungi growth.**
MOURA, R.M.; QUEIROZ, A.F.S.; MOURA, G.E.D.D.; MONTEIRO, N.K.V.; FOOK, J.M.S.L.L.; TEIXEIRA, F.M.; OLIVEIRA, A.S.; MACEDO, L.L.P.; SANTOS, E. A.; OLIVEIRA, F.W.; SALES, M.P.

N-53 **Crystalization and Structure Determination of YaeQ from *Xanthomonas axonopodis* pv citri**
Guzzo, C.R.; Nagem R.A.P.; Galvão-Botton, L.M.P.; Guimarães, B.G.; Medrano, F.J.; Barbosa, J.A.R.G.; Farah, C.S.

N-54 **Crystal Structure of HIV Proteases of Brazilian Subtypes**
M.Sanches; N. H. Martins; I. Polikarpov

N-55 **Crystallization trials with a recombinant Maltose Binding Protein (MBP) of *Xanthomonas citri***
C.S. Souza; A. Balan; J.A.R.G. Barbosa; L.C.S. Ferreira

N-56 **PARTIAL CHARACTERIZATION OF PROTEIN p83 FROM RAT BRAIN.**
Dombroski, T.C.D.; Oliveira, F.S. and Martins, A.R.

N-57 **Further Purification and Characterization of *Cladonia verticillaris* Lichen Lectinrn**
SILVA, M. D. C.; PAIVA, P. M. G.; CORREIA, M. T. S. & COELHO, L. C. B. B.

N-58 **Purification, Specificity and Three-dimensional Structure Model of the Giroxin (LMR-47) Isolated from Lachesis muta rhombeata venom**
Silva, Jr FP, Guedes HLM, Correa-Netto C, Aguiar AS, De-Oliveira CL, Torreani, I.L.and De-Simone, SG

N-59 **PURIFICATION AND STRUCTURAL CHARACTERIZATION OF THE ORYZACYSTATIN II MUTANT (OCIId30).**
G.C.Corrêa, Margis.R, A.P.Valente and Fabio C.L. Almeida

N-60 **Thermostability of Recombinant Luciferases from *Pyrearinus termitilluminans Coleoptera:Elateridae* and *Phrixotrix* sp *Coleoptera:Phengodidae***
Ogawa, F. T. G.; Viviani, V. R.

N-61 **Iron superoxide dismutase from *Plasmodium falciparum* and *Trypanosoma cruzi*: X-Ray structures and in silico drug design**
Navarro M.V.A.S.; Bortoleto R.; Garratt R.C.

N-62 **Chromatographic Separation of *Capparis yco* Lectin Isoforms**
Clébia C. P. Rabêlo; Cintia M. G. Brito; Luana C. B. B. Coelho and Patrícia M. G. Paiva

N-63 **Protein extraction and solubilization for 2D electrophoresis from maize leaves, a plant tissue containig high levels of interfering compounds**
Vigna, B.B.Z.; Silva-Silva, A.M.; Marangoni, S.

2-Resumos.pmd 74 6/6/2005, 12:38

N-64 **Dimerization of the extracellular domain of amyloid precursor protein by heparin**
Gralle, M.; GUERREIRO, L.H.; Oliveira, C.L.P.; Ramos, C.H.I.; Torriani, I. and Ferreira, S.T.

N-65 **Expression of bradykinin-potentiating peptides (BPPs) precursor protein and generation of specific antibodies**
Daniele Stuart, Lilian R. Tsuruta, Katsuhiro Konno, Oswaldo A. Sant'Anna, Marina T. Assakura, Antonio C. M. Camargo, and Mirian A. F. Hayashi

N-66 **ONTOGENETIC CHANGES ON *Bothrops insularis* SNAKE VENOM**
Zelanis, A.P.P.; Ventura, J.S; Chudzinski-Tavassi, A.M 3; Furtado, M.F.D

N-67 **PURIFICATION AND STRUCTURAL CHARACTERIZATION OF TWO PUTATIVE DEFENSINS (Sd1 AND Sd4) FROM SUGARCANE**
Viviane S. de Paula; Guilherme Razzera Maciel; Nicole Rovani; Ana P. Valente; Fabio C.L. Almeida; Eleonora Kurtenbach and Marcius S. Almeida

N-68 **Crystallization and preliminary crystallographic studies on *Trypanosoma cruzi* dihydroorotate dehydrogenase.**
Pinheiro, M.P. and Nonato, M.C.

N-69 **Purification, Oligomeric state and Steady-State kinetic analysis of Shikimate Kinase from *Mycobacterium tuberculosis***
Vasconcelos, I.B.; Oliveira, J.S.; Basso, L.A.; Santos, D.S.

N-70 **Preliminary Structural Studies of a New Myotoxic Lys49-PLA$_2$ (MjTX-I) from *Bothrops moojeni*.**
D.P. Marchi-Salvador, C.A.H. Fernandes, A.M. Soares and M.R.M. Fontes

N-71 **The Structure-Activity Relationship Of Snake Venoms Lectins: A Theoretical Study**
Abreu, P.A.; Albuquerque, M.G.; Rodrigues, C.R.; Castro, H.C.

N-72 **Protein variability in the resting human neutrophil: a proteomic approach**
Passos, P.I.B.; Honorato,C.T.M.; Silva, A.C.; Castro, M.S.; Fontes,B.; Fontes, W.

N-73 ***Bothrops jararaca* Venom Predictive Proteome and an Overview of C-type Lectin Family**
Guimarães-Ramos, P.; Oliveira-Carvalho, A.L.; Dutra, D.L.; Zingali, R.B.

N-74 **Crystallization and X-ray diffraction data analysis of Bothopstoxin-I complexed with α-tocopherol inhibitor at 1.83 Å resolution**
Santos, J.I., Takeda, A.A.S., Soares, A.M., Fontes, M.R.M.

N-75 **White Sucupira seeds *Pterodon pubescens*: an α-amylase inhibitor source with inhibitory activity toward *Callosobruchus maculatus***
Silva, D. P., Casado-Filho, E. L., Farias, L. R., Noronha, E. F., Franco, O. L.

N-76 **EXPRESSION, PURIFICATION AND INITIAL CHARACTERIZATION OF TWO TRUNCATED HEMOGLOBINS FROM *Herbaspirillum seropedicae***
Serpa, V.I.; Tavares, C.; Murgu, M.; Vernal, J.; Pedrosa, F.; Souza, E.M.; Terenzi, H.

N-77 **Biophysical Characterization of the Interaction between RACK1 and Ki-1/57**
Nery, F.C.; Alborghetti, M.R.; Kuniyoshi, T.M.; Bressan, G.C.; Passos, D.O.; Ramos, C.H.I.; Kobarg, J.

N-78 **Monte Carlo folding simulations of the WWW domain using information about atomic burials in the native structure**
Alexandre A. Bursztyn; Antônio F. Pereira de Araújo; Eugene I. Shakhnovich

N-79 **VIRUS STABILITY AND PROTEIN-NUCLEIC ACID INTERACTIONS AS STUDIED BY HIGH-PRESSURE EFFECTS ON NODAVIRUSES**
Schwarcz, WD; Barroso, SPC; Gomes, AMO; Johnson, JE, Schneemann, A; Oliveira, AC and Silva JL.

N-80 **Structural studies of the GumM, a glycosyltransferase from *Xylella fastidiosa* involved in the metabolic path of the fastidian gum.**
Alves, C.A.; Gonçalves, D.F.C.; Muniz, J.R.C.; Arruda, P.; Silva, F.R.; Vettore, A.L.; Oliva, G. and Souza, D.H.F.

N-81 **Structural and thermodynamic characterization of *S. mansoni* high mobility group (HMG) proteins**
Costa, T.M., Sousa, F.J.R., Oliveira, F.M.B., Fantappie, M.R. and Mohana-Borges, R.

N-82 **PRESSURE STABILITY OF SMAC/DIABLO, A PRO-APOPTOTIC PROTEIN**
R.B. Gonçalves; D. Sanches; T.L.F. Souza; J.L. Silva & A.C. Oliveira

N-83 **Cloning, expression, purification and crystallization trials of the conserved hypothetical proteins Xac4297 and Xac1344 from *Xanthomonas axonopodis* pv *citri***
R. R. Castellari and J. A. R. G. Barbosa

N-84 **Structural studies with an engineered dimer of transthyretin: Does TTR aggregates as a tetramer, dimer or monomer?**
Ferreira, P.S.; Palmieri, L.C.; Kelly, J.W.; Foguel, D.

N-85 **Crystallization and Preliminary X-Ray Diffraction Analysis of S94A Mutant Form of InhA from *Mycobacterium tuberculosis* complexed with IQG-607.**
Rodrigues, N.C.; Pereira, J.H.; Oliveira, J.S.; Basso, L.A.; Santos, D.S.; de Azevedo Jr., W.F.

N-86 **Trimer formation and substrate binding modeling in the dephosphocoenzyme A kinase from *Escherichia coli***
Santos, K. F., Oyama Jr., S., Ramos, C. H. I. and Barbosa, J. A. R. G.

N-87 **Leukocyte Response and Edematogenic Activity Induced by Neuwiedase, a Metaloproteinase Isolated from *Bothrops neuwiedi pauloensis* Snake Venom.**
Lopes, D.S.;Oliveira, C.F.;Baldo,C.;Hamaguchi, A.;Homsi-Brandeburgo,M.I.;Rodrigues,V.M.

N-88 **Hinge of Thyroid Hormone Receptor Can Mediate a Regulatory Dimerization**
Nascimento, A. S.; Figueira, A. C. M.; Dias, S.M.G.; Santos, M.A.M.; Oliveira, M.N.; Neves, F.A.R.; Simeoni, L.A.; Baxter, J.D.; Webb, P. and Polikarpov, I.

N-89 **The Array of Cytochrome *c* Lysine Residues Influences the Association of the Protein with Mitochondrial Mimetic Membranes**
Vitor A. Milicchio; Cintia Kawai; Paolo Di Mascio; Ana Maria Carmona-Ribeiro and Iseli L. Nantes

N-90 **Differences in the proteolytic processing of plant urease in adults and nymphs of Dysdercus peruvianus**
Angela, A.R., Staniscuaski, F. and Carlini, C.R.

Título dos Resumos

N-91 **Relationships between kinetics and bioluminescence spectra in pH-sensitive and pH-insensitive luciferases**
T. L. Oehlmeyer; V. R. Viviani

N-92 **Structural studies of inactive *trans*-sialidase from *Trypanosoma cruzi***
Dourado, F.S.; Gomes, D.E.B.; Bisch, P.M.; Shida, C.S.; Mendonça-Previato, L.; Previato, J.O.; Todeschini, A.R.

N-93 **Conformational and Thermodynamical Analysis of Glycyrrhizin Derivatives: Perspectives to Drug Development**
Caceres, R.A.; Verli, H.; de Amorim, H. L. N.; Guimarães, J. A.

N-94 **Structural differences and functional similarities between two cap triphosphatases from trypanosomatids**
Carlos Massayuki Kikuti & Sergio Schenkman

N-95 **IDENTIFICATION AND ISOLATION OF *Myracrodruon urundeuva* BARK LECTIN**
Sá, R.A.; Gomes, F.S.; Napoleão, T.H.; Santos, N.D.L.; Coelho, L.C.B.B.; Paiva, P.M.G.; Bieber, L.W.

N-96 **Molecular Modeling of Calmodulin Bound to the IQ-Motifs of Myosin Va**
Nelson F.S. Menetti, Renata R. Oliveira, Roy E. Larson

N-97 ***IN SILICO* EVALUATION OF THE INTERACTION OF A BOWMAN-BIRK PROTEASE INHIBITOR WITH PROTEASES OF CLINICAL INTEREST**
Joanitti, G.A.; Silva, L.P.; Azevedo, R.B.; Freitas, S.M.

N-98 **Bacteriolytic Activity of Purified Hen Egg White Lysozyme after Chemical Modification with Acetic or Succinic Anhydride.**
Afonso, A.S.; Moreli, L.A.; Duarte, G.C.; Madurro, J.M.; Homsi-Brandeburgo, M.I.; Hamaguchi, A.

N-99 **FLOW CYTOMETRY FOR LEUKEMIA CELLS IDENTIFICATION USING LECTINS CONJUGATED WITH FITC**
Cintia K. M. Oliveira; Hayana M. A. Rangel; Elissa C. P. Jaques; Edinalva L. Leite; Elizangela F. Silva; Vera L. Morais; Eduardo I. C. Beltrão; Maria do Socorro M. Cavalcanti

N-100 **COMPARATIVE PROTEOME ANALYSIS OF MAIZE SEEDS GENOTYPES RESISTANT AND SUSCETIBLE TO *Puccinia polysora* FUNGI: DISCLOSING DEFENSE PROTEIN CONTENTS**
Silva-Silva AM, Souza SM, Castellari RR, Paterniani, MEAGZ, Leite A, Marangoni S

N-101 **Characterization of inhibitor-2 like proteins from *Dictyostelium discoideum* and *Neurospora crassa*: analysis of interaction domains with protein phosphatase 1 catalytic subunit**
Juliana M. Sousa; Daniela Beton; Pio D.A. Zapella; Hector F. Terenzi; Aline M. da Silva

N-102 **Stoichiometry of Tobacco Mosaic Virus Dissociation and Denaturation by Urea**
Jose L. R. Santos; Jose A. C. Bispo; Gustavo F. Landini; Douglas R. Norberto; Ayana B. Martins; Carlos F. S. Bonafe.

N-103 **A new firefly luciferase with bimodal spectrum: structural determinants, biological function and biosensing applications of pH-sensitivity in beetle luciferases**
V. R. Viviani, T. L. Oehlmeyer, F. G. C. Arnoldi, F. T. Ogawa

N-104 **Neutralizing Effects of Aqueous Extract from *Schizololobium parahyba* on Crude Venom *Bothrops alternatus*}.**
Vale, L.H.F.;Izidoro, L.F.M.;Rodrigues, V.M.; Hamaguchi, A.; Homsi-Brandeburgo, M.I.

N-105 **Differential proteome from *Gluconacetobacter diazotrophicus* in the absence and presence of sugar cane**
Santos, M.F.; Nogueira, E.M., Hemerly, A.S., Domont, G.B.

N-106 **Molecular basis for activity of Smases D from spider venoms**
M. T. Murakami, M. F. Fernandes-Pedrosa, D. V. Tambourgi and R. K. Arni

N-107 **Recombinant domain A can modulate the activity of whole Ca-ATPase**
Freire, M.M; Albernaz, F.P; Cruzeiro-Silva,C; Carvalho-Alves, P.C; Verjovski-Almeida, S; Almeida, F.C.L and Valente, A. P.

N-108 **Isolation and biochemical characterization of three metalloproteases from Bothrops neuwiedi snake venom.**
Sant'Ana, C. D.; Monteiro, L. F.; Marcussi, S.; Mazzi, M. V.; Cambraia, R. S.; Sampaio, S. V.; Giglio, J. R.; Soares, A. M.

N-109 **Expression, Purification and Crystallization of RPL 10 Protein (QM Gene)**
Affonso R, Costa A M M, Martin F J M, Costa H, Pereira J S, Baracat E C and Silva I D C G

N-110 ***Bothrops jararaca* Venom Proteome.**
Coelho, F.E.M.R.F.; Valente, R.H.; Neves-Ferreira, A.G.C.; Lopes, W.B.; Leon, I.R.; Cidade, D.A., Albano, R.M., Domont, G.B. and Perales, J.

N-111 **Tetramer stability and structural analysis of the modeled hemoglobin from *Liophis miliaris*.**
Lombardi,F.R.; Peres,P.; de Azevedo Jr.,W.F. and Bonilla-Rodriguez, G.O.

N-112 **Proinflammatory activity of the D-galactose-binding *Bauhinia pentandra* seed lectin**
Cordeiro-Carlos, E.R.; Medeiros, M.A.S.; Silva, Monteiro-Moreira, A.C.O.; Silva, F.M.B.; Beltramini, L.M.; Moreira, R.A.; Horta, A.C.G.

N-113 **FUNCTIONAL PROPERTIES OF BaTX A K49 PHOSPHOLIPASE A2 HOMOLOGUE FROM THE VENOM OF THE SNAKE *Bothrops alternatus*.**
Ponce-Soto, L.A.; Gutiérrez, J.M.; Lomonte, B.; Marangoni, S. and Novello, J.C.

N-114 **Folding pathway dependence on energetic frustration and interaction heterogeintyrnfor a three dimensional hydrophobic protein model**
Leandro G. Garcia; Antônio F. Pereira de Araújo

N-115 **Alkaline Phosphatase Activation under Pressurization: Effects of Urea and Glycerol.**
Felix, C. F.; Scofano, H. M.; Furriel, R. P. M.; Jorge, J. A.; Leone, F. A.; Freitas, M. S.; Foguel, D. and Mignaco, J. A.

N-116 **Discovery of a New Motif that Binds to VEGFR1 By Nuclear Magnetic Resonance**
Anobom, C. D.; Giordano, R. J.; Kalil, J.; Pasqualini, R.; Arap, W.; Valente, A. P. and Almeida, F. C. L.

N-117 **STRUCTURAL STUDIES OF AUREOCIN A53 BY NUCLEAR MAGNETIC RESONANCE: A BACTERIOCIN FROM *Staphylococcus aureus***
Albernaz, F. P.; Netz, D.J.A.; Bastos, M. C. F.; Silva, T. C. L.; Zanchin, N. I. T.; Almeida, F. C. L. and Valente, A. P.

N-118 **Structural characterization of two hypothetical conserved proteins (Xf2007 and Xf2409) from *Xylella fastidiosa***
C.E. Alvarez, H. Ferreira, F. J. Medrano

2-Resumos.pmd 76 6/6/2005, 12:38

N-119 **Hemagglutinating proteins in toxic extracts of *Senna occidentalis* seeds**
F.C.R. Pinto; M. Lombardo; A.M.C.R.P.F. Martins; V.C.A. Ferreira; M. Richardson; M.P. Bemquerer and S. Kiyota

N-120 **CRYSTAL STRUCTURE OF INFESTIN 4, A FACTOR XIIA INHIBITOR FROM *Triatoma infestans***
Campos, I. T. N., Tanaka, A. S. and Barbosa, J.A.R.G.

N-121 **Expression, characterization, homology modelling and molecular interaction field studies to the design of novel anti-cancer drugs of two target proteins in head and neck cancer**
Leopoldino, A.M.; Feitosa, O.A.; Carregaro, F.; Selig A. M.;,Trovo, A.B.; Junqueira, M.; Cabral, H.; Brandão, H.; Domont, G.B.; de Azevedo, W.F.Jr.; Tajara, E.H.S.; Silva, C.H.T.P.

N-122 **A molecular model for Cyclophilin A from *Crinipellis perniciosa* a causal agent of witches' broom disease**
H.M. Pereira, A.B.L. Pires, J.C.M. Cascardo and P.S. Monzani

N-123 **Conformational changes studies on the human Hsp70 induced by ATP or ADP.**
J.C. Borges, C.L.P. Oliveira, I. Torriani, C.H.I. Ramos

N-124 **Differential binding of plant-derived carbohydrate-recognizing proteins towards the sea urchin cells**
Macedo, N.M.R.; Costa-Lotufo, L.V.; Bomfim, L.R.; Oliveira J.S.; Pessoa, C.; Moraes, M.O.; Ramos, M.V.

N-125 **Expression, purification and characterization of TAP42, a *Saccharomyces cerevisiae* SIT4 phosphatase regulatory protein**
Jablonka, Willy; Smetana, Juliana H. C.; Zanchin, Nilson I. T. and Montero-Lomeli, Monica

N-126 **CRYSTALIZATION AND STRUCTURE DETERMINATION OF THE COMPLEX INFESTIN-1/TRYPSIN**
Campos, I.T.N., deMarco, R., Tanaka, A. S. and Barbosa, J.A.R.G.

N-127 **Degree of protonation of a D49 phospholipase A2rnfrom ultra high-resolution diffraction data**
Murakami, M. T., Cintra, A.C.O. and Arni, R.K.

N-128 **Isolation and Biochemical studies of the Macrotyloma axillare seed Lectins**
Santana,M. A.; Santoro, M.M.; Andrade,M. H.G.; Wernek, T. D. B.

N-129 **Structure and function characterization of small heat shock proteins expressed in *Musa acuminata* leaves**
N. F. Martins; C. M. R. Santos; L.P. Cassiano; E. R. P. de

N-130 **EFFECTS OF ORGANIC SOLVENTS ON THE CATALYTIC CYCLE OF MYOSIN**
Reynaldo, D.P., Alexandre, G.M.C., Lima, L.M.T. and Sorenson, M.M.

N-131 **APO-TROPONIN C ON THE THIN FILAMENT IN SKELETAL SKINNED MUSCLE FIBERS IS SENSITIVE TO DIFFERENT CROSS-BRIDGE STATES (M, M.ADP, M.ADP.Pi, M.Pi).**
J.R. Pinto, T. Veltri, M.C. Pereira, and M.M. Sorenson

N-132 **PURIFICATION AND PARTIAL CHARACTERIZATION OF A FIBRINOGENOLYTIC PROTEASE (Sp-FP) FROM THE VENOM OF THE SCORPIONFISH *Scorpaena plumieri*.**
Andrich, F.; Cassoli, J.S.; Sartim, M.A.; De Lima, M.E.; Cordeiro, M.N.; Richardson, M.; Figueiredo, S.G.

N-133 **CHARACTERIZATION OF PHENOL EFFECTS ON THE CATALYTIC CYCLE OF MYOSIN SUBFRAGMENT-1 Coelho R.G.; Salerno V.P. and Sorenson M.M**

N-134 **Aggregation and Fibrillization of the Murine Prion Protein: Influence of pH and Temperature**
S.M. Martins, D.J. Frosoni, A.M.B. Martinez, F.G. De Felice and S. T. Ferreira

N-135 **Clone identification of Bothroinsularin, a thrombin inhibitor protein from *Bothrops insularis* venom using proteomics approach.**
Oliveira-CarvalhoA.L; Guimarães-Ramos, P; D.L.S. Dutra; H.C. Castro; I.L.M. Junqueira-de-Azevedo; P.L Ho; R.H. Valente;, A.G.C. Neves-Ferreira, J. Perales, R.B. Zingali.

N-136 **Involvement of a transmembrane proline residue in signal transduction of angiotensin II AT1 receptor**
Rosana I. Reis, Edson L. Santos, João B. Pesquero, Laerte Oliveira, Antonio C. M. Paiva, Claudio M. Costa-Neto

N-137 **Preliminary structural analysis of the isoform ±1 of the human thyroid hormone receptorrnLBD in complex with the thyroid hormones T3 and Triac**
R. Aparicio; F. M. Nunes; M. A. M. Santos; F. A. R. Neves; L. A. Simeoni; J. D. Baxter; P. Webb and I. Polikarpov

N-138 **P22 portal protein folding and assembly studies: The role of ionic strength.**
Braga, C. A. C. A; Carvalho, D. C.; Moore, S.; Prevelige, P.; Foguel, D.

N-139 **Modeling the Dimeric Complex of Large Cytoplasmic Domain from SERCA by using Experimental and Theoretical SAXS data**
W.I. Almeida, R.B. Costa, O.B. Martins and P. C. Carvalho-Alves.

N-140 **Biochemical and molecular characterization of carboxypeptidases from rat mesenteric arterial bed perfusate**
Laura L. Souza, Maria C. O. Salgado, Claudio M. Costa-Neto, Eduardo B. Oliveira

N-141 **Identification of cytochrome *c* lysine residues involved in the attachment of the protein to the inner mitochrondrial membranes of mitoplasts**
Cintia Kawai; Tiago Rodrigues; Felipe S. Pessoto; Vitor A. Milícchio; Paolo Di Mascio; Ana Maria Carmona-Ribeiro and Iseli L. Nantes

N-142 **Anticoagulant and Antithrombotic Properties of Ixolaris, a Novel Recombinant FVIIa-Tissue Factor Inhibitor**
Nazareth, R.A.; Ortiz-Costa, S.; Francischetti, I.M.B.; Monteiro, R.Q.

N-143 **Using proteomic tools to describe the action of a parasite**
Gomes da Silva L.; Giuli, J.S.A.; Machado O. L. T.; Azevedo J. S.; Silva-Neto M. A. C., Lima N. R. W. and Dansa-Petretski M.

N-144 **Structural and functional studies of the NEK1 Interacting Protein FEZ1**
Assmann, E.M.; Kobarg, J.

N-145 **Informational analysis of atomic burials in globular proteins**
Antonio Luiz Gomes; Júlia Rosa de Rezende; Antônio F. Pereira de Araújo; Eugene I. Shakhnovich

N-146 **ATP analogs (PPi, ADP, BeF_x) and a Pi analog (AlF_{4-} affect the reactivity of Lys-553 in the 50-kDa subdomain of myosin subfragment 1 (S1)**
Bomfim, T.R.; Lima, L.M.T.R.; Sorenson, M.M.; Salerno, V.P.

Título dos Resumos

N-147 **Properties of the Lizard Teiu *Tupinambis merianae* Hb by Potentiometric Titration**
Gustavo Fraga Landini; José Luis da Rocha Santos; José Ailton da Conceição Bispo; Ayana de Brito Martins; Douglas Ricardo Norberto and Carlos Francisco Sampaio Bonafe

N-148 **Characterization of the human NY-REN-21 tumor antigen: a putative transcriptional factor**
Carneiro, F. R. G., Vaz, T. H.; Gozzo, F. C. and Zanchin, N. I. T

N-149 **Comparative Functional Study of Hemoglobins from Tambacu, Tambaqui (*Colossoma macropomum*) and Pacu (*Piaractus mesopotamicus*).**
Souza, P. C.; Poy, C. D.; Bonilla-Rodriguez, G. O.

N-150 **Immunological comparison of C-type lectin from *Bothrops insularis* (BiL) with plant and snake venom lectins**
Guimarães-Gomes V., Castro H. C., Dutra D. L. S., Carlini C. R. R. S. and Zingali R. B.

N-151 **Structure-Activity Relationships of D49 and K49 Phospholipases A2 from Molecular Dynamics Simulations**
Oliveira, T.C.; de Amorim, H. L. N.; Guimarães, J. A.

N-152 **GALECTIN-3 LIGANDS IN TOTAL PROTEIN EXTRACTS OF NEUTROPHILS AND DENDRITIC CELLS**
Tomazella,G.G.; Melo,F.H.M.; Gomes,G.G.; Covas,D.T.; Chammas,R.; Greene,L.J.

N-153 **Analysis of FGF2-intracellular protein complexes**
Dermargos, A.; Silva, T. C. L.; Zanchin, N. I. T.; Armelin, H. A.

N-154 **THE USE OF PARAMAGNETIC BROADENING OF NMR RESONANCES TO STUDY THE DYNAMIC OF SMALL PEPTIDES IN MICELLES**
Cruzeiro-Silva, C.; Sousa, K.M.O.; Vieira, R.F.F.; Nakaie, C.R.; Bisch, P.M.; Cilli, E.; Almeida, F.C.L. and Valente, A.P.

N-155 **PARTIAL PURIFICATION OF A NEW THROMBIN-LIKE ENZYME ISOLATED FROM THE VENOM OF *Bothrops neuwiedi pauloensis***
COSTA, F. L. S.; RODRIGUES, R. S; IZIDORO, L. F. M.; FRANÇA, J. B.; HAMAGUCHI, A.; HOMSI-BRANDEBURGO, M. I.; RODRIGUES, V. M.

N-156 **Structural Determination of Fusion Peptide of VSV by NMR in the Presence of Lipids Vesicles**
Sarzedas, C.G., Lima, C., Da Poian, A. T., Valente, A. P., Almeida, F.C.L.

N-157 **Small angle X-ray scattering and analytical ultracentrifugation form dimmers and tetramers forms of Thyroid hormone receptor confirmation.**
Figueira, A.C.M.; Dias, S. M. G.; Oliveira M.N.; Ramos, C.H.; and Polikarpov, I.

N-158 **Structural Studies of Anti-Microbial Peptides PW2 and Tritrpticin Interacting with Phospholipid Vesicles by Nuclear Magnetic Resonance.**
Gomes-Neto, F.; LoSan, T.L.; Tinoco, L. W.; Freitas, M.; Schreier, S.; Valente, A. P.; Almeida, F. C. L.

N-159 ***trans*-sialidase from *Trypanosoma cruzi* as target for chemotherapeutic intervention of Chagas' disease**
Carvalho, S.T.; Dourado, F.S.; Sperandio-da-Silva, G.; Lopes, A.B.; Paula A.F.; Lima, L.; Barreiro, E.J.; Mendonça-Previato, L.; Previato, J.O.; Todeschini, A.R.

N-160 **STUDIES OF LOCAL AND SYSTEMIC MYOTOXICITY OF THE ISOFORMS BthTX-II (Bj IV AND Bj V) OF SNAKE VENOM Bothrops jararacussu, IN CELLULAR CULTURE OF MYOBLASTS AND MYOTUBES**
Bonfim, V.L.; Ponce-Soto, L.A.; Gutiérrez J.M.; Lomonte, B.; Novello, J.C. and Marangoni, S.

N-161 **CRYSTALLIZATION AND PRELIMINARY STRUCTURAL ANALYSIS OF A CISTEINO PROTEASE OF *Xylella fastidiosa***
Oliva, M. A.; Leite, N. R.; Nogaroto, V.; Gianotti, A.; Oliva, G.; Henrique-Silva, F.; Thiemann, O. H.

N-162 **Target Selection, Cloning and Expression of *Xylella fastidiosa* Conserved Hypothetical Proteins for Structural Studies.**
Giuseppe, P. O.; Ferreira, H.; Guimarães, B. G.

N-163 **EFFECT OF THE LOCAL AND SYSTEMIC MYOTOXICITY OF THE CROTOXIN AND CROTOXIN B OF THE SNAKE VENOM *Crotalus durissus collilineatus*, IN CELLULAR CULTURE OF SKELETAL MUSCULAR (C2C12)**
Fagundes, F.H.R.,; Ponce-Soto, L.A.,; Diz Filho, E.B.S.,; Gutiérrez J.M.,; Lomonte, B.; Novello, J.C. and Marangoni, S.

N-164 **Spectroscopic Studies of the Interaction between Polyoxyethylene 23 Lauryl Ether, a Neutral Detergent, with the Monomer *d* of the Extracellular Hemoglobin of *Glossoscolex paulistus*.**
Ribelatto, J.C.; Moreira, L.M.; Imasato, H.

N-165 ***Schizolobium parahyba* seed lectin: isolation and interaction with endospermic galactomannans**
Silva, I.M.; Moreira, R.A.; Monteiro-Moreira, A.C.O.

N-166 **Elucidating the sequence and structure of HeLp, a Heme-Lipoprotein from the cattle tick *Boophilus microplus***
Seki, HA; Alves, LR; Sorgine, MHF; Nene, V; Medrano, FJ; Oliveira, PL.

N-167 **Inhibition of the hematological alterations induced by *Bothrops neuwiedi pauloensis* snake venom, by the aqueous extract from *Schizolobium parahyba*.**
Mendes, M. M.; Izidoro, L. F. M.; Hamaguchi, A.; Homsi-Brandeburgo, M.I.; Rodrigues, V.M.

N-168 **Two-dimensional gel electrophoresis analysis of Nelore bull (*Bos taurus indicus*) seminal plasma**
Moraes, L. F. P., Silva, L. J., Sousa, M. V., Assumpção, T., Ricart, C. A. O.

N-169 **Structural characterization of dengue virus 2 fusion peptide bound to detergent micelles**
Sousa, F.J.R, Stauffer, F.J., Rosa, M.S., Oliveira, C.L.P., Torriani, I., Da Poian, A.T. and Mohana-Borges, R.

N-170 **Bothrops atrox venom proteome maps from specimens of different developmental stages**
Guércio, R.A.P.; Paba, J., Lopez-Lozano, J.L., Shevchenko, A., Shevchenko, A., Sousa, M.V. and Ricart, C.A.O.

N-171 **Recombinant CaGC: Production and Structural Studies.**
Garcia, A.F.; Nonato,M.C.; e Araújo, A.P.U.

N-172 **Crystal structure of human purine nucleoside phosphorylase complexed with quinazolinone**
L.M. Gava; F. Canduri1; R.G. Silva; L.A. Basso; D.S. Santos and W.F. de Azevedo.

N-173 **Functional Analysis of a Recombinant Molybdate-Binding Protein of *Xanthomonas citri***
Santacruz, C.P.; A. Balan; Lucas, S.F.S.; C.H. Ramos; L.C.S. Ferreira.

N-174 **Human LGI1 protein expression and purification for structural and functional analyses**
Murai, M. J., Torres, F. R., and Lopes-Cendes, I.

N-175 **Structural characterization of an aminopeptidase from *Xanthomonas axonopodis* pv. Citri**
Santos, K. and Medrano, F.J.

N-176 **Standardization of Two Dimensional Gel Electrophoresis for Proteomic Analysis of the Human Pathogen *Trichomonas vaginalis***
Jose B. De Jesus; Patricia Cuervo; Magno Junqueira, Fernando Costa Silva-Filho; Octavio Fernandes; Elisa Cupolillo, Gilberto Domont

N-177 **Introducing *Camptosema ellipticum* lectin, Camptosemin: Purification and preliminary characterization.**
Goto, L. S.; Batista, F. A. H.; Moraes, D. I.; Araújo, A. P. U.

N-178 **Purification and primary structure of an acidic phospholipase A2 from the venom of *Lachesis muta* (the bushmaster snake)**
Eduardo B. Assis; Rocha, B.C.; Valentim, A.C.; Estevão-Costa, M.I.; Richardson, M.; Fortes-Dias, C.L.

N-179 **Destruction for the sake of construction: a comprehensive study in HIV-1 capsid assembly.**
J.R. Cortines; L.P. Gaspar; J. Lanman; T.A. Millen; C. Sant´Anna; M. Attias; P. E. Prevelige; J.L. Silva

N-180 **Different conformations detected by NMR explain the variable activities of lytic peptides corresponding to the N-terminus of trialysin**
Martins, R.M.; Sforça M.L.; Amino, R.; Juliano, M.A.; Juliano, L.; Pertinhez, T.A.; Spisni, A.; and Schenkman, S.

Imunoquímica

O-1 **Cross-neutralization of the neurotoxicity of *Crotalus durissus terrificus* and *Bothrops jararacussu* venoms by antisera against crotoxin and phospholipase A_2 (PLA_2) fromrn Cr*otalus durissus cascavella* venom**
Beghini, D.G.; Cruz-Höfling, M.A.; Rodrigues-Simioni, L.; Novello, J.C.; Hyslop, S.; Marangoni, S.

O-2 **The Alternative Pathway Of The Complement System Is Altered In Hyperthyroidism**
Bitencourt, C.S.; Azzolini, A. E. C. S.; Assis-Pandochi, A.I.; Curti, C.

O-3 **HAMPERED CARDIO-RESPIRATORY FUNCTION IN A MICE MODEL OF AUTOIMMUNITY CARDIOMYOPATHY**
Campelo RP.; Rodrigues DRF.; Díaz-Giménez LE.; Mattos E.; Quintero Hernández CC.; Brandão IT.; Silva CL.; Kurtenbach E.

O-4 **Analysis of detergent-resistant membranes in *Leishmania* (Leishmania) *amazonensis***
A.K. Tanaka, H.K. Takahashi and A.H. Straus

O-5 **Antibody response against the major GIPC antigen of *Paracoccidioides brasiliensis* in patients with paracoccidioidomycosis**
Bertini S, Colombo AL., Takahashi, HK., Straus, AH.

O-6 **Porous Silicon as a Matrix for IgG Immobilization**
Laranjeira, J. M. G.; Oliveira, M. I. P.; Araújo, R. F. F.; Vasconcelos, E. A.; Dutra, R. F.; Fernandes K. F.; Lima Filho J. L. and Carvalho Jr, L. B.

O-7 **Humoral response of *Bos Taurus* and *B. indicus* cattle infested by the tick *Boophilus microplus* against paramyosin and tick salivary gland extract**
Mattos, R.T.; Leal, A.T.; Silva, S.S.; Da Silva Vaz Jr; Masuda, A.; Ferreira, C.A.S.

O-8 **Mapping of immunoglobulin E epitopes of Ric c 1 and Ric c 3, the major allergens from *Ricinus communis* seed.**
Felix, S.P., Gama, C.C., Oliveira, N.D., Damatta R.A., Machado, O.L.T.

O-9 **Lipids composition of *Leishmania* (Viannia) *braziliensis* promastigotes detergent-resistant membranes (DRMs)**
Yoneyama K.A.G.; Takahashi H.K.; Straus A.H.

O-10 **Antioxidant Potential of the Phenolic Compounds Isolated from Plant Oils**
Mota, E. F.; Feijó, D.F.; Silva, A.C.M.; Trevisan, M.T.S.; Silva Lima, M. and Melo, D.F.

Mecanismos de Ação de Drogas

P-1 **The effects of hydrophobic fractions from Toxoplasma gondii and crude extract from Serjania lethalis on parasite interactions with M-1 and M-2 murine macrophages**
Napolitano, D.R.; Espindola, F.S.; Espindola, L.S.; Mineo, J.R.

P-2 **Anti-inflammatory properties of ethanolic extract of *Baccharis trimera*: a possible inhibitory effect on neutrophils migration.**
Reis P.A., Lopes, C.S., Marques, P.R., Coelho, M.G.P.

P-3 **Induction of Multidrug Resistance Protein 1 (ABCC1) expression by ouabain: correlation with ouabain resistance**
Valente, R.C.; Nascimento, C.R.; Capella, L.S.; Affonso-Mitidieri, O.R.; Wengert, M.; Líbano-Soares; J.D.; Lopes, A.G.; Capella, M.A.M.

P-4 **Flavins-induced Cell Cycle Arrest and Apoptosis of Human Myeloid Leukemia Cells**
Souza, A.C.S.; Santos, V.G.; de Jesus, M.B.; de Paula, E.; Aoyama, H.; Ferreira, C.V.

P-5 **Pharmacological and Mechanistic Characterization of the Antihemostatic Profile of Acylhydrazone Derivatives**
Frattani, F. S.; Lima, L.; Fraga, C.A.M.; Barreiro, E.J. and Zingali, R.B.

P-6 **The Effect of Glycyrrhizin against the Pro-Hemostatic Activities of *Bothrops jararaca* Snake Venom**
Assafim, M.; Ferreira, M. S.; Frattani, F. S.; Monteiro, R. Q.; Zingali, R. B.

P-7 **Dehydrocrotonin and its β-cyclodextrin complex: cytotoxicity in V79 fibroblasts and rat cultured hepatocytes.**
Corrêa, D.H.A; Melo, P.S; de Azevedo, M.B.M; de Carvalho, C.A.A; Durán, N; Haun, M.

2-Resumos.pmd 79 6/6/2005, 12:38

Título dos Resumos

P-8 **Electrooxidation Products of Dipyridamole in Acetonitrile and Acid Aqueous Media**
Michelle Lima; Marilene S. Oliveira; Andréa R. Malagutti; Luiz H. Mazo and Marcel Tabak

P-9 **Fotodegradation of Dipyridamole using as Photosensitizer Methylene Blue in Acetonitrile and Aqueous Acid Solutions**
Marilene S. Oliveira; Michelle Lima; Fernanda M. Prado; Paolo Di Mascio; Marcel Tabak

P-10 **Characterization of RNA aptamers as specific inhibitors of P2X4 receptors**
*Paromita Majumder, Cleber Augusto Trujillo, and Henning Ulrich**

P-11 **Human phosphodiesterase 5A catalytic domain: synthesis of the coding region and pCRBlunt® cloning**
Selbach, B.P.; Fonseca, I.O., Basso, L.A. and Santos, D.S.

P-12 **Docking of a Dolabellane Diterpene Derivative on the Non-Nucleoside Binding Site of the HIV-1 Reverse Transcriptase**
De Souza, A.M.T.; Albuquerque, M.G.; Castro, H.C.; Barbosa, J.P.; Pereira, R.C.; Abrantes, J.L.; Santos, C.C.C.; Rebello, M.A.; Frugulhetti, I.C.P.P.; Teixeira, V.L.; Rodrigues, C.R.

P-13 **Cytotoxic Evaluation of Dehydrocrotonin in Human Colon Adenocarcinoma Cell Lines**
P.A. Monteiro;,2P.S. Melo; N. Durán and M. Haun

P-14 **Antithrombotic effect of bothrojaracin, a *Bothrops jararaca* snake venom-derived (pro)thrombin inhibitor**
Ferreira, M. S.; Assafim, M.; Frattani F. S.; Mendes-Silva, W.; Monteiro, R. Q. & Zingali, R. B.

P-15 **Cytotoxicity on V79 Cells of Tiliroside and Lespedin - Flavonoids Isolated from *Herissantia crispa***
I. Ferreira; D.A. Costa; M.F.V. De Souza; L.M. Batista, M. Haun and P.S. Melo

P-16 **Cytotoxicity of Dehydrocrotonin and its ß-Cyclodextrins Complexes in Sensitive – Human Myelogenous Leukaemia K562 and Resistant K562-Lucena-1 Cells**
L. Frungillo, M.C. Anazetti, P.S. Melo, M.B.M. de Azevedo, C.A.A. de Carvalho, N. Durán and M. Haun

P-17 **RELATIONSHIP BETWEEN LIPOPHILICITY AND CYTOTOXIC EFFECT OF GALLIC ACID N-ALQUIL-ESTERS ON LEUKEMIC LIMPHOBLASTIC CELLS L-1210.**
Rosso, R.; Licínio, M. A.; Souza, C. A. de; Souza, N. A. de; Bazzo, M. L., Santos-Silva, M. C.; Leal, P. C.; Yunes, R. A.; Nunes, R.; Creczynski-Pasa, T. B.

P-18 **Diterpenes Isolated from *Xylopia langsdorffiana*: Cytotoxicity in V79 Cells**
J.B. Fabrin-Neto; M.V.B. Silva; J.F. Tavares; M.S. Silva; M.F.F.M. Diniz; M. Haun and P.S. Melo

P-19 **Functional and Histopathological Analysis of the Doxorubicin - Induced Myocardiopathy in rats.**
Rossana Baggio Simeoni; Katherine A. T. Carvalho; Julio Cesar Francisco; Ana Paula C. Martins; Ricardo M. Pereira; Nelson I. Miyague; Márcia Olandoski; Waldemiro Gremski; Silvio Sanches Veiga

P-20 **Hypoglycemic and hypolipidemic properties of new thiazolidinediones derivatives**
Araujo, R.J.O.; Mourao, R.H.V.; Almeida,L.E.L.; Lima, M.C.A.; Vasconcelos, I.B.; Lima, V.L.M.; Galdino, S.L.; Pitta, I.R.

P-21 **USNIC ACID INCREASES p53 LEVELS IN MCF7 CANCER CELLS**
Mayer, M.; O'Neill, M.A.; Murray, K.E.; Magalhães, N. S. S.; Carneiro-Leão, A.M.A.; Thompson, A.M.; Appleyard, M.V.C.L.

P-22 **3-Methylcatechol produces an impairment on $FADH_2$-linked basal respiration in liver mitochondria.**
BARRETO, G.E.S.; DOS SANTOS, G. S.; ALVAREZ, L.D.G.; COSTA, S.L.; COSTA, M.F.D.; EL-BACHÁ, R. S.

P-23 **Cytotoxic Effect of a new 1,3,4-Thiadiazolium Mesoionic Compound (MI-D) on Cell Lines of Human Melanoma**
A. Senff-Ribeiro, A. Echevarria, E.F. Silva, C.R.C. Franco, S.S. Veiga and M.B.M. Oliveira

P-24 **Apoptosis Induction of Dehydrocrotonin and its Cyclodextrins Complexes on U937 and K562 Leukaemia Cells**
M.C. Anazetti; P.S. Melo; M.B.M. de Azevedo; C.A.A. de Carvalho; N. Durán and M. Haun

P-25 **A cationic steroid antibiotic active against *Candida albicans* and *Paracoccidioides brasiliensis***
Gravi, E. T. Savage, P. B. Travassos, L.R. and Rodrigues, E. G.

P-26 **Structure-Activity Relationships (SAR) studies of antiplatelet Pyrazolopyridine derivatives.**
Nagashima-dos Reis,T.M., Rodrigues C.R., Albuquerque M.G.; Bernardino, A.M.R., Gomes A.O., Freitas A.C.C., Dias L.R.S. Di Vaio M.A., Castro H.C.

P-27 **Antinociceptive activity of bis-selenide alkene derivatives**
Jesse, C.R.; Savegnago, L.; Moro, A.; Zeni, G.; Nogueira, C.W.

P-28 **PLATELET AGGREGATION INHIBITION BY ONCOCALYXONE A**
Ferreira, M.A.D.; Ventura, J.S.; Chudzinski-Tavassi, A.M.

P-29 **Effects of the Miltefosine in the Na^+-ATPase activity of *Trypanosoma cruzi*. through Protein Kinase C**
Saraiva,V.B.; Pinhão, F. L.; Wengert, M.; Gomes-Quintana, E.; Freire-de-Lima, L.; Mendonca-Previato, L.; Previato, J.O.; Caruso-Neves,C.; Heise, N.

P-30 **Synthesis and biological activity of a new palladium(II) complex with a sulfur-containing amino acid**
Lilian P. B. Sabeh, Pedro P. Corbi, Flávia Cagnin, Antonio C. Massabni and Claudio M. Costa-Neto

P-31 **COMPARATIVE STUDY OF DNA AND PROTEIN-DEGRADATIVE PROPERTIES OF A NEW SERIES OF DINUCLEAR COPPER (II) COMPLEXES**
Heinrich, T. A.; Oliveira, M. C. B.; Peralta, R. A.; Neves, A.; Terenzi, H.

P-32 **REDUCTION OF TRYGLICERIDES BLOOD LEVEL IN RODENTS TREATED WITH 2.4.6 - TRIHYDROXYACETOPHENONE**
E.A. Ferreira; E.F. Gris; P.C. Leal; R.A. Yunes; R.C. Pedrosa.

P-33 **DNA fragmentation by of 1,3-diaryl-2-propen-1-ones and antitumoral activity**
J.M.REBELLO; M.R.KVIECINSKI; E.A.FERREIRA; L.SANTOS; R. CORREA; V. CECHINEL; R. NUNES; R.A.YUNES;R.C. PEDROSA

Membranas Biológicas e Sistemas Biomiméticos

Q-1 **PKC Phosphorylation of Na,K-ATPase as a Consequence of *Mayaro* Virus Infection in Vero Cells.**
Castro, L.S.; Ferraz, V.B.; Motta, M.C.V.A.; Rebello, M.A., Frugulhetti, I.C.P.P.; Fontes, C.F.L

Q-2 **ESR studies on the role of surface charge in the lamellar to H_{II} phase transitionrn**
Vieira, E.D. Citadini, A.P.S.; Costa-Filho, A.J.

Q-3 **Interaction between Ebola fusion peptide and lipid rafts: differential structural requirements for fusion**
Freitas M. S., Almeida F., Biancone M. L., Valente A. P., Silva J. L.

Q-4 **Ion binding to Zwitterionic Interfaces: Specific Salt Effects on the Thermodynamics of N-Dodecyl-N,N-dimethylpropane Sulfonate Micellization**
Batistela, D. M.; Maximiano, F. A.; Cuccovia, I.M.

Q-5 **Influence of Phosphatidic Acid and Melatonin on Phosphatidylcholine Liposomes Physico-Chemical Behavior: Relevance for Lipid Peroxidation Dynamics**
V. R. de Lima; M. Caro and T.B. Creczynski-Pasa.

Q-6 **Effects of Micellar Charge on the pK_a of Aromatic Amines and Phenols**
Cortes, C. L. C.; Souza, T. P.; Agostinho Neto, A.; Chaimovich, H.; Cuccovia, I. M.

Q-7 **Functionalization of Latex with Polyelectrolyte/Lipid Assemblies**
Fernando Perecin Araujo; Denise Freitas Siqueira Petri; Ana Maria Carmona-Ribeiro

Q-8 **Controls of Encapsulation Efficiency and Solute Liberation by Microspheres Composed of Different Mw with Free –H or Methylated PLGA Polymers**
Jocimara Ambrosio de Moraes Namur, Vanessa de Almeida Silva, Célia Sayoko Takata and Maria Helena Bueno da Costa

Q-9 **Biomimetic Particles: Optimization of Phospholipid Bilayer Coverage on Silica and Colloid Stabilization**
S.P. Moura and A.M. Carmona-Ribeiro

Q-10 **Assembly of a model hydrophobic drug onto cationic bilayer fragments**
Débora Braga Vieira; Luis Fernando Pacheco; Ana Maria Carmona-Ribeiro

Q-11 **Oximolysis of p-Nitrophenyldiphenyphosphate in Zwiterionic Micelles of N-Hexadecyl -N,N – dimethyl-1-propanesulfonate, HPS.**
Kobayakawa, T. G.; Gonçalves, L. M.; Zanette, D.; Cuccovia, I. M. and Chaimovich, H.

Q-12 **Interaction of TPPS4 with cationic and mixed cationic-nonionic micelles**
Patrícia S. Santiago and Marcel Tabak

Q-13 **Physical-chemistry approach as tools to enhance vaccine encapsulation within liposomes without increases on costs.**
Vanessa de Almeida Silva, Jocimara Ambrosio de Moraes Namur, Célia Sayoko Takata and Maria Helena Bueno da Costa

Neuroquímica

R-1 **Thyroid hormone (T_3) increases glutamate uptake by cerebellar astrocytes**
Mendes de Aguiar, CBN; Alchini, R; Trentin AG, Tasca, CI

R-2 **Molecular response to neuronal injury: identification of molecules involved in axonal regeneration in gastropods.**
Coulson-Thomas, Y.M.; Moraes, J.R.; Porcionatto, M.A.

R-3 **Amphetamine increases glial fibrillary acidic protein expression in rat hippocampus.**
Andreazza, A.C.,Frey, B.N., Cereser, K.M.M., Tramontina, F., Souza, D.F., Kapczinski, F., Gonçalves, C. A.

R-4 **IMPAIRMENT OF STRIATAL ENERGY METABOLISM IN THE QUINOLINC ACID RAT MODEL OF HUNTINGTON'S DISEASE**
C.A.J. Ribeiro, V. Grando, C.S. Dutra Filho, A.T.S. Wyse, C.M.D. Wannmacher and M. Wajner

R-5 **NMDA preconditioning protects mice hippocampal against necrotic cellular death induced by quinolinic acid**
C. R. Boeck; M. Ganzella; H. Decker; E. Stroeh; D. Vendite; R. B. Leal and C. I. Tasca

R-6 **Ethanol-induced Tau Hyperphosphorylation: Role of hypothermia**
Ana Cristina Morais; Juliana Magalhães; Sérgio T. Ferreira.

R-7 **Synaptosomal Glutamate Release and Uptake in Mice Lacking the Cellular Prion Protein**
Thais, M.E.; Santos, T.G.; Machado, R.S.; Walheim, D.O.; Carqueja, C.L.; Bianchin, M.M.; Brentani, R.R.; Martins, V.R.; Walz,R.; Tasca,C.I.

R-8 **Involvement of MAPK/ERK pathway in the synaptosomal glutamate release induced by sea anemone toxins**
Soletti, R.C.; Souza, D.G.; Aggio, R.; Vernal, J.; Terenzi, H. Gabilan, N.H. Depto. Bioquímica, CCB, Universidade Federal de Santa Catarina, Florianópolis, SC;

R-9 **AMYLOID BETA PEPTIDE TOXICITY IS NOT MEDIATED BY HYPERACTIVATION OF NO-SYNTHASE IN THE AVIAN RETINA.**
Leandro T. de Oliveira; Paulo Roberto Louzada; Fernando G. de Mello; Sérgio T. Ferreira.

R-10 **Modulation of cellular signaling proteins by lead acetate in C6 rat glioma cells**
Posser,T.; Garcez, R.C.; Borowski, C.F.; Trentin, A.; Moura-Neto, V.; Leal, R.B.

R-11 **ASSESSMENT OF LEAD NEUROLOGICAL EFFECTS USING NEUROBEHAVIORAL TESTS IN YOUNG MICE: PERSPECTIVES FOR THE TREATMENT OF LEAD INTOXICATION**
Araújo, U.C.; Filgueiras,C.C.; Anderson; Manhães, A.; Jesus, V.C.; Castro Faria, M.V.; Burth, P.

R-12 **GL-15 as a model of study by *Neospora caninum* in the CNS**
PINHEIRO, A.M.; COSTA, S.L.; RIBEIRO, C.S.O.; FREIRE, S.M.; ALMEIDA, M.A.O.; TARDY, M.; EL BACHÁ, R.; COSTA, M.F.D.

Título dos Resumos

R-13 **Extraction of alkaloids from *Prosopis Juliflora* leaves and evaluation of cytotoxicity in cultured astrocytes.**
Silva, A.M.M.; Silva, A.R.; Freitas, S.R.V.B.; Silva, V.D.A.; Souza, C.S.; Barreto, R.A.; Pinheiro, A.M., El-Bachá, R.S., Velozo, E.S., and Costa, S.L.

R-14 **EFFECT OF METHYLMALONIC ACID ON THE RESPIRATORY CHAIN COMPLEX ACTIVITIES IN KIDNEY OF YOUNG RATS**
A.L. Schmidt; L.F. Pettenuzzo; C.G. Ferreira; A.T.S. Wyse; C.S. Dutra-Filho; C.M.D. Wannmacher; M. Wajner.

R-15 **Effects *in vitro* and *in vivo* of fluoxetine on ectonucleotidases activities in hipocampal sinaptosomes of rats.**
E.L. Pedrazza, J.J.F. Sarkis, C.D. Bonan

R-16 **SYNAPTOSOMAL GLUTAMATE RELEASE INDUCED BY AGMATINE**
Souza, D.G.; Felisbino, C.S.; Soletti, R.C.; Almeida, R.C.; Rodrigues, A.L.; Leal, R.B. Gabilan, N.H.

R-17 **PROPYL-THIO-URACIL EFFECT DURING LACTATION ON ENERGETIC METABOLISM IN RAT CENTRAL NERVOUS SYSTEM**
Gravina, F. S.; Silveira, C. K. B.; Müller, A. P.; Kawano, C.; Londero, L. G.; Battú, C. E.; Souza, C. G; Leszczinski, D. N.; Perry, M. L. S.; Gonçalves, C. A.S.

R-18 **Nicotinic and muscarinic cholinergic receptors subunits are expressed during neuronal differentiation of P19 embryonal carcinoma cells**
Resende, R.R.; Martins, A.H.B.; Nery, A.A.; Ulrich, H.

R-19 **EVIDENCE THAT 3-HYDROXYANTHRANILIC ACID HAS ANTIOXIDANT PROPERTIES IN CEREBRAL CORTEX OF YOUNG RAT**
C. Schumacher, G. Leipnitz, A. Latini, K.B. Dalcin, K. Scussiato, C.S.Dutra-Filho, A.T.S. Wyse, C.M.D. Wannmacher and M. Wajner.

R-20 **3-Methylcatechol: in vitro toxicity and brain mitochondrial dysfunction.**
DOS SANTOS, G.S.; BARRETO, G.E.S.; LIMA, R.M.F.; DE ANDRADE, D.V.G.; GRANGEIRO, M.S.; ALVAREZ, L.D.G.; COSTA, S.L.; EL-BACHÁ, R.S.

R-21 **GMP and Guanosine Mediate the Increase of Neuronal Number in Culture**
Decker, H.; Romão, L. F.; Dal-Cim, T.; Moura-Neto, V.; Tasca, C. I.

R-22 **REDUCTION OF ENERGY METABOLISM BY KYNURENIC ACID IN RAT BRAIN**
R.C. Maria, P.F. Schuck, A. Tonin, G.C. Ferreira, A. Latini, C.M. Viegas, V. Grando, C.S. Dutra-Filho, A.T.S. Wyse, C.M.D. Wannmacher, M. L.S. Perry and Moacir Wajner

R-23 **3-HYDROXYKYNURENINE IMPAIRS ENERGY METABOLISM IN RAT BRAIN**
Vanessa Grando, P.F. Schuck, A. Tonin, G.C. Ferreira, R.C. Maria, A. Latini, R.B. Rosa, C.S. Dutra-Filho, Â.T.S. Wyse, C.M.D. Wannmacher, M.L.S. Perry and M. Wajner

R-24 **ACTIVATION OF GABA A RECEPTORS BY TAURINE BLOCKS THE NEUROTOXICITY OF β-AMYLOID IN HIPPOCAMPAL AND CORTICAL NEURONS**
Andréa C. Paula Lima; Jordano Brito Moreira; Fernanda G. De Felice; Rogério Panizzutti; Sérgio T. Ferreira

R-25 **Detection and functionality of nicotinic acetylcholine receptors during neuronal differentiation of PC12 pheochromocytoma cells**
Arthur Andrade Nery, Antonio Henrique Baccin Martins, Rodrigo Ribeiro Resende, Cleber A. Trujillo1, Henning Ulrich

R-26 **Pharmacological properties of suramin in glial cells expressing the recombinant rat P2X2 receptor**
Trujillo, C.A.; Majumder, P.; Nery, A.A.; Ulrich, H.

R-27 **Oligomers from a non-disease related protein mimic Aβ-induced tau hyperphosphorylation and neurodegeneration in rat brains**
Marcelo N. N. Vieira; Letícia F. Germano; Adriano Sebollela; Ana Maria B. Martinez; Jean-Christophe Houzel; Fernanda G. De Felice, and Sérgio T. Ferreira

R-28 **COMPARING NEUROPSIN TO OTHER SERINE PROTEASES**
Geraldo, R., Aguiar, M.L.P.; Shiosaka, S., Zingali, R.B.; Rodrigues, C.R. and Castro, H.C.

R-29 **IN VITRO EFFECT OF QUINOLINIC ACID ON VARIOUS PARAMETERS OF OXIDATIVE STRESS IN RAT BRAIN.**
M. Wajner, G. Leipnitz, C. Schumacher, K.B. Dalcin, K. Scussiato, C.S. Dutra-Filho, A.T.S. Wyse, C.M.D. Wannmacher, A. Latini

R-30 **Resveratrol protects against oxygen and glucose deprivation in rat hippocampal organotypic cultures and activates Akt and inativates GSK-3\beta}**
L.L.Zamin; P.Pilla; M.Nassif; F.Simão; A.P.Horn; D.Gerhard; R.Frozza and C.Salbego

R-31 **BRANCHED-CHAIN α–KETO ACIDS ACCUMULATING IN MAPLE SYRUP URINE DISEASE INDUCE MORPHOLOGICAL ALTERATIONS AND ACTIN REORGANIZATION IN C6 GLIOMA CELLS**
Funchal, C.; Jacques-Silva, M.C.; Santos, A.Q.; Latini, A.; Buzin, L.; Gottfried, C.; Wajner, M.; Pessoa-Pureur, R.

R-32 **Impairment of endoplasmic reticulum and plasma membrane Ca^{2+}-ATPases activities after quinolinic acid induced-excitotoxicity**
Fernandes, A.M.A.P.; Landeira-Fernandez, A.M.; Souza-Santos, P.; Carvalho-Alves, P.C.; Castilho, R.F.

R-33 **INHIBITION OF CREATINE KINASE ACTIVITY BY THE BRANCHED-CHAIN α–KETO ACIDS ACCUMULATING IN MAPLE SYRUP URINE DISEASE IN C6 CELLS.**
C. Funchal, P.F. Schuck, A.Q. Santos, M.C. Jacques-Silva, C. Gottfried, M. Wajner, R. Pessoa-Pureur

R-34 **EFFECT OF α–KETOISOCAPROIC ACID ON THE PHOSPHORYLATING SYSTEM ASSOCIATED WITH THE CYTOSKELETAL PROTEINS FROM CEREBRAL CORTEX OF IMMATURE RATS**
Funchal, C.; Santos, A.Q.; Zamoner, A.; Wajner, M. and Pessoa-Pureur, R.

R-35 **Different Profile of S100B Secretion in Astrocytes and C6 Glioma Cells in Presence of High-Glucose Medium.**
Nardin, P.; Tramontina, F.; Leite, M.C.; Tramontina, A.C.; Gottfried C.; Battastini, A.M.O.; Gonçalves, C.A

R-36 **Cerebral cortex changes in the content of glial fibrillary acidic and S100B proteins in rats exposed to protein malnutrition.**
Ana Carolina Tramontina;Ana Maria Feoli; Francine Tramontina; Ingrid D Schweigert; Carmem Gottfried; Marcos Luiz Perry; Carlos-Alberto Gonçalves

R-37 **Ontogenetic changes in serum S100B in Down syndrome patients**
Netto, C.B.O., Souza D.F., Portela L, Kieling, C., Matte, U., Felix, T., Silveira, T.R., Souza, D.O., Gonçalves, C.A., Giugliani, R.

R-38 **Transitory Gliosis In The CA3 Hippocampal Region In Rats Fed On A Ketogenic Diet**
Silva, M.C.; Rocha, J.K.; Pires, C.F.S.; Ribeiro L.C.; Brolesi, G.; Ferreira, A.R.; Leite, M.C.; Almeida, L.M.V.; Tramontina, F.; Ziegler, D.R. and Gonçalves, C.A.

R-39 **Serum S100B levels in patients with neural tube defects**
Netto, C.B.O., Leite, M., Portela, L., Félix, T., Souza, D.O., Gonçalves, C.A., Giugliani, R.

R-40 **Production of NO is necessary for in vitro wound healing of cerebellar neurons and glia co-culture**
MEOB Ribeiro; HP Monteiro; MA Porcionatto

R-41 **In Vitro Effect Of Glutaric Acid On Energy Metabolism In Midbrain Of Young Rats**
C.M. Viegas, G.C. Ferreira, P.F. Schuck, A. Latini, A.T.S. Wyse, C.S. Dutra-Filho, C.M.D. Wannmacher, C.R. Vargas and M. Wajner.

R-42 **Glutaric acid alters lipid peroxidation and antioxidant defences in rat brain**
C.S. Dutra-Filho, F.O. Marques, C.D. Pederzolli, A.M. Sgaravatti, M.B. Sgarbi, B.A. Vargas, B.R. Zandoná, A.T.S. Wyse, C.M.D. Wannmacher and M. Wajner

R-43 **Effect Of Acute Glutaric Acid Administration On Energy Metabolism In Young Rat Tissues**
G.C. Ferreira, C.M. Viegas, P.F. Schuck, A. Latini, D.M. Coelho, A.T.S. Wyse, C.S. Dutra-Filho, C.M.D. Wannmacher, C.R. Vargas and M. Wajner.

R-44 **EFFECT OF ANTHRANILIC AND 3-HYDROXYANTHRANILIC ACIDS ON RESPIRATORY CHAIN COMPLEXES AND Na^+,K^+-ATPASE ACTIVITIES IN RAT BRAIN**
A. Tonin; P.F. Schuck; G.C. Ferreira; R.C. Maria; A. Latini; R.B. Rosa; C. M. Viegas; C. S. Dutra-Filho; A. T. S. Wyse; C. M. D. Wannmacher and M. Wajner

R-45 **Can Epileptic Seizures in Patients Presenting Neuronal Heterotopia be Caused by Alteration in the Activity of the GABAergic and the NMDA-Receptor Systems?**
Zanella, CAB; Chimelli, L; Neder, L; Leite, JP; Anselmi, AM; Cukiert, A and Martins, AR

R-46 **Modulation of Glutamate Release By Guanine Derivatives**
Santos, T. G.; Silva, R. V.; Souza, D. O.; Tasca, C. I.

R-47 **Neuronal Nitric Oxide Synthase (nNOS) Can Play a Role in the Rat Cerebellar Ontogenesis**
Guethe, L.M.; Martins, A.R.

R-48 **Aβ inhibits mitochondrial-bound hexokinase: Implications for impairment of brain energy metabolism in Alzheimer's disease**
Leonardo M. Saraiva, Antonio Galina, Wagner Seixas da-Silva, Marcus F. Oliveira, Sérgio T. Ferreira and Fernanda G. De Felice

R-49 ***Canavalia brasiliensis* Lectin (ConBr) and *Canavalia ensiformes* Lectin (ConA) decrease tumoral cell viability and ERK1/2 phosphorylation.**
Heckert, B.T.; Pereira, S.F.; Barauna, S.C.; Alvarez-Silva, M.; Garcez, R.C.; Stimamiglio, M. A.; Pinto, V.P.T.; Teixeira, E.H.; Nascimento, K.S.; Cavada, B.S.; Leal, R.B.

R-50 **INHIBITION OF CREATINE KINASE ACTIVITY FROM RAT CEREBRAL CORTEX BY 3-HYDROXYKYNURENINE**
Rodrigues-Junior, V. S.; Cornelio, A. R.; Wyse, A. T. S.; Dutra-Filho, C. S.; Wajner, M.; Wannmacher, C. M. D.

R-51 **CHRONIC ADMINISTRATION OF CYSTINE OR DIMETHYLCYSTINE REDUCES CREATINE KINASE ACTIVITY IN RAT BRAIN CORTEX**
Cé, N.; Fleck, R. M. M.; Rodrigues-Junior, V. S.; Rech, V. C.; Athaydes, G. A.; Dornelles, P. K. B.; Wajner, M.; Wannmacher, C. M. D.

R-52 **NTPDase and 5´-nucleotidase activities in slice and CSF of kindling rats**
Oses, J.P.; Viola, G.G.; Cognato, G.P.; Cereser, V.H.; Leke, R.; Bonan, C.D.; Portela, L.V.C.; Souza, D.O., Sarkis, J.J.F.

R-53 **Cross-talk Between S100B and Glutamate in Hippocampal Astrocyte Cultures from Rats**
Francine Tramontina; Marina C Leite; Daniela Gonçalves; Ana Carolina Tramontina; Daniela F Souza; Juliana K Frizzo; Carmem Gottfried; Diogo O Souza; Susana T Wofchuk and Carlos-Alberto Gonçalves

R-54 **Evidence of a specific interaction between ADAM23 and cellular prion protein**
Costa M. D. M.; Almeida F. T.; Brandenburg L. T.; Costa F. F.; Lopes M. M.; Klassen, G.; Martins V. M.; Camargo, A.A.; Nakao, L.S.; Zanata, S.M.

R-55 **Ruthenium complexes possesses psychopharmacological actions in ratsrnrn**
Samira Valavassori, Roberta Albino Machado, Márcio R. Martins, João Quevedo, and Marcos M. da S. Paula

R-56 ***Canavalia brasiliensis* Lectin (ConBr) Increases ERK1/2 phosphorylation in synaptosomes.**
Pereira, S.F.; Heckert, B.T.; Barauna, S.C.; Pinto, V.P.T.; Teixeira, E.H.; Nascimento, K.S.; Cavada, B.S.; Leal, R.B.

R-57 **Parkinson's disease neuropathogenesis: high hydrostatic pressure reveals that dopamine stabilizes the intermediates of the aggregation of α-synuclein's mutants**
Cristian Follmer, Luciana Romão, Flavio Alves Lara, Thaís C.R. Porto, Carla M. Einsiendler, Hilal Lashuel, Peter Lansbury, Vivaldo Moura Neto, Jerson L. Silva and Débora Foguel

R-58 **The role of MAPKs on the viability of C6 rat glioma cells exposed to lead acetate treatment**
Posser, T.; Garcez, R.C.; Borowski, C.F.; Trentin, A.; Moura-Neto, V.; Leal, R.B.

R-59 **HIGH FAT DIET INCREASES THE INCIDENCE OF OROFACIAL DYSKINESIA AND OXIDATIVE STRESS IN SPECIFIC BRAIN REGIONS OF RATS**
Farinon, M.; Fachinetto,R.; Brito,V.B.; Wagner,C.; Wondracek, D.C.; Burger,M.E.; Rocha,J.B.T.

R-60 **Effects of the flavonoid rutin on the expression of GFAP, TNF-ALPHA and IL-10 in rat cortical astrocytes**
SILVA, A.R.; PINHEIRO, A.M.; FREITAS, S.R.V.B.; SANTOS, C.V.C.D.; VELOZO, E.S.; COSTA, M.F.D.; FREIRE, S.M.; TARDY, M.; EL-BACHÁ, R.S.; COSTA, S.L.

Peptídios Biologicamente Ativos

S-1 **Gomesin, a cationic antimicrobial peptide isolated from *Acanthoscurria gomesiana*, is cytotoxic in vitro against tumor cells**
Cavarsan, C.F., Daffre, S., Miranda, A., Fazio, M.A., Travassos, L.R. and Rodrigues, E.G.

Título dos Resumos

S-2 **CDR peptides but not the original anti-melanoma monoclonal antibody (A4M) have a cytotoxic effect against B16F10 tumor cells**
Dobroff,A.S.; Polonelli, L.; Juliano, M.A.; Rodrigues, E.G.; Travassos, L.R.

S-3 **Spatial profiling peptides and proteins on cells and tissue sections by imaging mass spectrometry**
L.P. Silva, and C. Bloch Jr

S-4 **PEPTIDE BLOCKERS OF THE INHIBITION OF NEURONAL NICOTINIC ACETYLCHOLINE RECEPTORS BY β–AMYLOID PEPTIDE**
Magdesian, M.H.; Nery, A.A.; Martins, A.H.B.; Juliano, M.A.; Juliano, L.; Ulrich, H.; Ferreira, S.T.

S-5 **Secundary structure of polycationic peptides from wasp venoms.**
de Souza, BM; Mendes, MA; Santos Cabrera, MP; Ruggiero Neto, J; de Azevedo Jr, WF; Palma, MS.

S-6 **FURTHER STUDIES ON AN ALTERNATIVE APPROACH TO PREPARE ESTERIFIED PROTECTED PEPTIDES UNDER MILD CONDITIONS**
Proti, P.B., Oliveira, P.V. and Miranda, M.T.M.

S-7 **Neurotoxic and Myotoxic actions from *Lachesis muta muta* (surucucu) venom on the mouse and chick nerve-muscle preparations**
Damico, D. C. S.; Bueno, L. G. F.; Rodrigues-Simioni, L.; Marangoni, S.; Cruz-Höfling, M. A.; Novello, J. C.

S-8 **New Record of a Caerulein Peptide in the Skin Secretions of the South American Frog *Leptodactylus syphax***
Dourado, F.S.; Melo, J.T.; Brand, G.D.; Leite, J.R.; Pires Jr, O.R.; Schwartz, E.N.F.; Bloch Jr, C.

S-9 **Role of Arg212 of the kinin B1 receptor in signal transduction for des-Arg9-BK**
Edson L. Santos, Claudio M. Costa-Neto, João B. Pesquero, Laerte Oliveira, & Antonio C. M. Paiva

S-10 **Cyclic peptides containing the integrin-binding motifs VGD and MLD delay neutrophil spontaneous apoptosis**
RF Saldanha-Gama; JA Moraes; MS De Freitas; C Marcinkiewicz; R Zingali; MA Juliano; C Barja-Fidalgo

S-11 **N-terminal peptides from Sticholysin II: comparative properties and membrane interactions**
Crusca, E.J.; Souza, F.C.; Pigossi, F.T.; Oliveira, F.J.F.; Schreier, S.; Alvarez, C.; Cilli, E.M.

S-12 **Microglial phagocytosis of β-amyloid aggregates**
Ana Cristina Morais; Sérgio T. Ferreira; Oliver Holub

S-13 **Novel host-defense peptides isolated from the skin secretion of the frog *Leptodactylus labyrinthicus***
Ribeiro-e-Silva, F.F.; Fontes, W.; Sousa, M.V.; Schwartz, E.F. and Castro, M.S.

S-14 **2,3-hexapyranosyl-spiro [4,5]-dec-1-en-10-one: A new compound from the venom of the social wasp *Polybia paulista***
Saidemberg, D. M.; Mendes, M. A.; de Souza, B.M.; de Sales, F.P; Tormena, C. F.; Palma, M. S.

S-15 **Comparative Study of Biological Activities from Three Brazilian Snakes Venoms: *Bothrops moojeni*, *Bothrops neuwiedi pauloensis* and *Crotalus durissus sp.***
FRANÇA, J.B; RODRIGUES, V. M.; HAMAGUCHI, A.; HOMSI-BRANDEBURGO, M. I.

S-16 **Preliminar Study On The Influence Of Apolar Residues Of Bioactive Peptides On Their Comformational Characteristics And Lytic Activity**
Dalla Picola, I.P.; dos Santos Cabrera, M.P.; Ruggiero Neto, J.

S-17 **Structure-function analysis of dermaseptins from *Phyllomedusa tarsius***
Jardim, D.P.; Chaves, F.M.S.; Prates, M.V.; Amaral, A.; Martins, G.R.; Figueredo, R.C.R.; Felipe, S. S. and Bloch, C.

S-18 **Mass spectrometry analysis of peptides secreted by HepG2 hepatoma cells infected with Dengue virus 2**
Caruso M. B.; Oliveira-Carvalho A. L;Dutra D. L.S.; Canellas F.; Higa L; A. T. Da Poian; Zingali R. B.

S-19 **Isolation and Characterization of Two Bioactive Peptides of Skin Secretion from *Physalaemus centralis* (AMPHIBIA)**
Leite, J.R.S.A.; Melo, J.A.T. and Bloch Jr, C.

S-20 **Identification and characterization of novel antimicrobial peptides from maizern *Zea mays* seeds**
Santos, P.A.;Fontes, W.; Sousa, M.V. and Castro, M.S.

S-21 **PURIFICATION AND CHARACTERIZATION OF A THROMBIN INHIBITOR FROM *Boophilus microplus* GUT EXTRACT**
Ricci, C.G.; Pinto, A.F.M.; Termignoni, C.

S-22 **Purification and characterization of a dynastin-related peptide from the skin of the tree-frog *Hyla biobeba***
Ribeiro, R.E.B.; Oliveira, S.R.; Fontes, W.; Sousa, M.V.; Matsushita, R.H.; Sebben, A. and Castro, M.S.

S-23 **Peptidomics studies: Contribution for better understanding of *Gluconacetobacter diazotrophicus* physiology**
Rubatino, L.F.; Dutra, D.L.S.; Oliveira-Carvalho, A.L.; Lery, L.M.S.; Bisch, P.M.; Zingali, R.B.

S-24 **Isolation and Sequencing of a Novel Bioactive Polypeptide of Skin Secretion from Brazilian frog *Physalaemus centralis* (Anura)**
Peixoto, K.C.; Leite, J.R.S.A.; Melo, J.A.T.; Bloch Jr, C.

S-25 **Mass Spectrometric studies on novel bradykinin and phyllokinin analogs from the skin secretion of *Phyllomedusa hypochondrialis***
Brand, G.D., Krause, F.C., Leite, J.R.S.A., Prates, M.V., Costa-Neto, C.M., Bloch Jr., C.

S-26 **Hypotensive bradikinin-like and phyllokinin peptides from *Phyllomedusa tarsius***
Mundim,N.C.C.R.; Venturini, B.A.; Prates, M.V.; Brand, G. D. and Bloch, C.

S-27 **Biochemical Characterization Of The Venom Of The Wasp *Angiopolybia pallens***
De Sales, F.P; de Souza, B.M; Santos, L.D; Santos, K.S; Mendes, M.A Saidemberg, D.M; Palma, M.S

S-28 **Novel dermaseptins from *Phyllomedusa hypochondrialis***
Mandel, S.M.S., Brand, G.D., Leite, J.R.S.A., Prates, M.V., Bloch Jr., C.

2-Resumos.pmd 84 6/6/2005, 12:38

S-29 ***In vitro* effect of *Bothrops cotiara* and *Bothrops jararacussu* (SERPENTES:VIPERIDAE) venoms on blood coagulation pathways.**
BARCHIKI, F.; HASSELMANN-ZIELINSKI, F.; KIZLTYKA, V.; PEREIRA, L. F.; ELIFIO-ESPOSITO, S.

S-30 **Partial characterization of a lectin isolated from the venom of *Bothrops jararacussu* (SERPENTES: VIPERIDAE) and its adhesion to extracellular matrix glycoproteins**
HESS, P. L.; HASSELMANN-ZIELINSKI, F.; PEREIRA, L. F.; ELIFIO, S. L.

S-31 **THE PORTAL HYPERTENSIVE RESPONSE TO BRADYKININ IN CHRONIC INFLAMMATION AND CIRRHOSIS**
Agostino FG, Nagaoka MR, Borges DR, Kouyoumdjian M.

S-32 **PORTAL HYPERTENSIVE RESPONSE TO BRADYKININ IN THE EX VIVO LIVER PERFUSION.**
Pouza JEP, Agostino FG, Kouyoumdjian M, Borges DR, Nagaoka MR

S-33 **THE C-TERMINAL FRAGMENT OF ACANTHOSCURRIN IS A DIFFICULT SEQUENCE**
Remuzgo, C.}; Loffredo, C.; Andrade, G.F.S.; Temperini, M.L.A.; Daffre, S. and Miranda, M.T.M.

S-34 **Effect of kinins on the pre-contracted perfused liver**
Luciana Gomiero; Durval Rosa Borges; Maria Kouyoumdjian

S-35 **EFFECTS OF CYSTEINES AND HYDROPHOBIC RESIDUES REPLACEMENTS BY ALANINES IN THE BIOACTIVITY OF GOMESIN**
W.T. Lamas, M.A. Fázio, V.X. Oliveira Jr., G.T. Costa, M.T.M. Miranda, S. Daffre and A. Miranda

S-36 **Bioprospection of Antimicrobial Peptides in Eggplant Leaves**
Almeida, H.O.; Teixeira, F.R.; Pereira, P.R.G.; Silva, D.J.H.; Romeiro, R.S.; Santoro, M.M.; Fontes, E.P.B.; Baracat-Pereira, M.C.

S-37 **Chemical strategies for the synthesis of angiotensin II and bradykinin G protein-coupled receptors fragments.**
Cuvero, J.H., Souza, S.E.G., Schreier, S., Paiva, A.C.M. and Nakaie, C.R.

S-38 **Angiotensin II and bradykinin analogues containing the POAC spin label : biological activity and EPR structural investigation.**
Poletti, E.F.; Nardi, D.T.; Paiva, A.C.M.; Schreier, S. and Nakaie, C.R.

S-39 **Effect of Strong Electrophilic or Nucleophilic Solvents for Peptide Solubilization: The Special Influence of the Water Molecule**
Malavolta, L.; Teixeira, L.G.D.; Jubilut, G.N.; Nakaie, C.R.

S-40 **CD, NMR AND BIOLOGICAL STUDIES OF LINEAR GOMESIN ANALOGUE**
M.A. Fázio; L. Jouvensal; F. Vovelle; P. Bulet; M.T.M. Miranda; S. Daffre and A. Miranda

S-41 **Supramolecular Peptide Interaction Between Protonectin and its Analogous Protonectin (1-6) Modifying the Biological Activity**
Mendes, M. A.; de Souza, B. M.; Saidemberg D.M.; Baptista, N.B. and Palma, M.S.

S-42 **Fast Analysis Of Low-Molecular-Weight Compounds Present In Snake Venom: Identification Of Ten New Pyroglutamate-Containing Peptides**
Wermelinger, LS; Dutra, DL; Oliveira-Carvalho, AL; Soares, MR; Bloch Jr, C; and Zingali, RB.

S-43 **Isolation and biochemical characterization of a 3,5 kDa neurotoxin from *Tityus fasciolatus* scorpion venom**
Zanotta, L.C; Fontes, W.; Sousa, M.V.; Schwartz, C.A. and Castro, M.S.

S-44 **Ocellatin 4: the most hydrophobic antimicrobial peptide from the skin secretion of the frog *Leptodactylus ocellatus***
Nascimento, A.C. Fontes, W.; Sousa, M.V.; Sebben, A. and Castro, M.S.

S-45 **PROTHROMBIN FRAGMENTS INTERFERE IN HUMAN NEUTROPHIL MIGRATION BY MODULATING GRK-2 AND IL-8 EXPRESSION**
MARIANO-OLIVEIRA A.; DALZY DV.; VILLELA CG; BARJA-FIDALGO C; MONTEIRO RQ. & DE FREITAS MS

S-46 **EFFECTS OF CYSTEINES AND HYDROPHOBIC RESIDUES REPLACEMENTS BY ALANINES IN THE BIOACTIVITY OF GOMESIN**
W.T. Lamas, M.A. Fázio, V.X.Jr. Oliveira, G.T. Costa, M.T.M. Miranda, S. Daffre and A. Miranda

S-47 **STEPWISE SOLID-PHASE PEPTIDE SYNTHESIS AT ELEVATED TEMPERATURE**
Loffredo, C.; Remuzgo,C. and Miranda, M.T.M.

S-48 **Effects of the combined treatment with *Crotalus* Venom and Ionising Radiation on Pituitary Adenoma cells**
Soares, M.A.; Pujatti, P. B.; Gouvêa dos Santos R.

S-49 **COMPARISON OF THE NEUROTOXIC ACTIVITY OF *Crotalus durissus cumanensis* AND *Crotalus durissus terrificus* (VAR. WHITE) VENOMS ACTIVITY IN MOUSE NERVEPHRENIC DIAPHRAGM PREPARATIONS.**
Diz Filho, E.B.S.; Fagundes F.H.R.; Ponce-Soto, L.A.; Rodrigues-Simioni, L.; Novello, J.C. and Marangoni, S.

S-50 **Recombinant Expression of Antimicrobial Peptides from the Cattle Tick *Boophilus microplus*.**
Silva, F. D.; Remuzgo, Cesar; Gonzales, F. A.; Maldonado, R. A.; Tanaka, A S.; Oliveira, C. C.; Miranda, M. T. M.; Daffre, S.

S-51 **Screening of Insecticidal Molecules Using a Shuffled Library.**
Brunetta, P.S.F.; Oliveira, G.R.; Figueira, E.L.Z.; Cavalcante, K.L.; Silva, M.C.M.; Grossi de Sá, M.F.

S-52 **ISOLATION AND BIOCHEMICAL CHARACTERIZATION OF PEPTIDES PRESENTING ANTIMICROBIAL ACTIVITY FROM THE SKIN OF *PHYLLOMEDUSA HYPOCONDRIALIS***
Conceição, K., Konno K., Antoniazzi, M. M., Jared, C., Sant´Anna, O. A., Daffre S., Camargo, A.C.M. and Pimenta, D.C.

S-53 **Antimicrobial factors from the harvestman *Acutisoma longipes*.**
Sayegh, R.S.R.; Daffre, S. and Silva Jr., P.I.

S-54 **NMR Structure of peptide isolated from the venom of the social wasp *Polybia paulista*rn**
Aguiar, M. B.; Ribeiro, S. P.; Pertinhez, T. A.; Palma, M.S.; de Azevedo Jr., W.F.; Fadel, V.

S-55 **RGD-DISINTEGRINS INDUCE HO-1 EXPRESSION AND TCR COSTIMULATION BY INTEGRIN SIGNALING IN HUMAN T LYMPHOCYTES**
Helal-Neto E; Lopes CV; Arruda MA; Marcinkiewicz C.; Barja-Fidalgo C.; De Freitas MS

S-56 **Deleterious Effects of Peptides from Guava Seeds *Psidium guajava* Against Gran-Negatives Bacteria that Cause Urinary Infections**
Paula Durante Tagliari; Patrícia Barbosa Pelegrini; Jorge Alex Taquita Melo; Carlos Bloch Jr.; Octávio Luiz Franco

Título dos Resumos

Radicais Livres e Espécies Ativas de Oxigênio

T-1 **Plastoquinone redox status and H_2O_2-mediated antioxidant responses in red algae *Kappaphycus alvarezii* upon light and chilling stresses.**
M.P. Barros; P. Colepicolo; M. Pedersén

T-2 **Dehydrocrotonin increases the survival of tumor-bearing mice through its antioxidant action**
P.S. Melo; J.M.F.A. Neto; N. Duran and M. Haun

T-3 **Influence of aging on human neutrophil adhesion to rabbit aortic endothelial cells (RAECs)**
A. Matroniani; K.A. Simon-Giavarotti; S.S. Chan; G. Beolchi; M.C.V. de Freitas; A.S.C. Cardoso; R.G. Fonseca; V.B.C. Junqueira

T-4 **Antioxidant Properties and Fatty Acids Contents of the Marine Red Algae *Kappaphycus alvarezii* and *Hypnea spinella***
Guaratini, T.; Pinto, E.; Lopes N.P.; P Colepicolo

T-5 **Chronological aging is associated with glutathionernin *S. cerevisiae*, an eukaryotic cell mode**
Mannarino S.C., Pereira M.D., Panek A.D., Eleutherio E.C.A.

T-6 **Colorimetric Determination of the Residual PVA Adsorbed on the Surface of PLGA Nanoparticles Encapsulated with In(III)-Mesotetraphenylporphyrin for Use in Photodynamic Therapy**
A.R Silva and R.A. Jorge

T-7 **Supraphysiological anabolizant treatment alter activity of antioxidant enzymes of rat heart.**
Chaves, E.A.; Fortunato, R.S.; Carvalho, D.P.; Nascimento, J.H.M.; Oliveira, M.F.

T-8 **Expression regulation of mitochondrial thioredoxin peroxidase - an example of a complex network in the antioxidant response.**
Monteiro, G.; Netto, L.E.S.

T-9 **Effects Of Isocoumarins On Mitochondria(II): Antioxidant/Prooxidant Activities Concerning Modulation Of Mitochondrial Permeability Transition**
Calgaro-Helena, A. F.; Dorta, D. J.; Rodrigues, T.; Devienne, K. F.; Uyemura, S. A.; Santos, A. C.; Curti, C.

T-10 **Biochemical Characterization of the Osmotically Inducible protein (OsmC) from *Escherichia coli***
Sugimoto, T. R. and Netto, L. E. S.

T-11 **Isolation of Secondary Metabolic with Antioxidant Capacity from Mushroom of the Sun, *Agaricus blazei* Murril.**
Fernandes, A. S.; Furlan, M.; Brunetti, I. L.; Hakime-Silva, R. A.; Oliveira, O. M. M. F.

T-12 **Excision of C8-methylguanine from DNA by the AlkA protein of *Escherichia coli***
Bruno B. Horta and Luis E. S. Netto

T-13 **Structural Characterization Of Proteins Involved In The Cellular Response To Oxidative Stress**
M.A. Oliveira; K.F. Discola; V. Genu; J.R.R.Cussiol; G. Monteiro; G. Monteiro-Silva; A.P. Demasi; S.A.Vidigal; F.J. Medrano; B.G. Guimarães; & L. E. S. Netto.

T-14 **Investigation of the Antioxidant Properties of Mycosporine-like amino acids in the Marine Red Algae *Gracilaria tenuistipitata***
Cardozo, K.H.M.; Carvalho, V.M.; Pinto, E.; Guaratini, T.; Cardozo, D.M.; Colepicolo, P.

T-15 **Reactions of yeast cytosolic thioredoxin peroxidase I and II with hydrogen peroxide and peroxynitrite: Kinetics and inhibition of radical production in cultures**
R. Ogusucu, D. Rettori, D. C. Munhoz, L. E. S. Netto and O. Augusto

T-16 **Effects of Heavy Metals in Photosynthetic Pigment Contents in *Gracilaria tenuistipitata* var. liui Zhang & B. M. Xia According to Determination of the Toxicological Parameter.**
A.M.P. Neto, E. Pinto and P. Colepicolo

T-17 **COVALENT MODIFICATION OF CYTOCHROME C EXPOSED TO 2,4-DECADIENAL**
Sigolo, C. A. O.; Di Mascio, P. and Medeiros, M. H. G

T-18 **Oxidative DNA damage in human neuroblastoma SH-SY5Y cells expressing a mutant SOD typical of familial amyotrophic lateral sclerosis**
Barbosa, L.F.; Di Mascio, P.; Medeiros, M.H.G.

T-19 **Relationship Between Antidepressant-like effect of Zinc and Antioxidant Status on Short Term Treated Rats.**
Franco, J.L.; Posser, T.; Trevisan, R.; Leal, R.B.; Rodrigues, A.L.S.; Dafre, A.L.

T-20 **DNA single strand breaks induced by linoleic acid hydroperoxide and its corresponding cholesteryl esther**
G.E. Ronsein; S. Miyamoto; M.H.G. Medeiros; P. Di Mascio

T-21 **Intramolecular Generation of Singlet oxygen in DNA**
F.M. Prado; G.R. Martinez; S. Miyamoto; M.H.G. Medeiros; P. Di Mascio

T-22 **Singlet molecular oxygen generation in the presence of ozone and DNA bases**
S. Miyamoto; G.R. Martinez; M.H.G. Medeiros and P. Di Mascio

T-23 **Cross-reaction of MAb Anti-LDL- with OxLDL in Vitro**
Souza,S.M.; Mello,A.P.; Gidlund M.; Abdalla,D.S.; Damasceno,N.R.

T-24 **Effects of Isocoumarins on Mitochondria (I): Antioxidant Activity Associated with Free Radical Scavenging and Membrane Stabilization**
Siqueira, C.M.; Devienne, K.F.; Calgaro-Helena, A.F.; Prado, I.M.R.; Vilegas, W.; Raddi, M.S.G.; Santos, A.C.; Curti, C.

T-25 **Damage to biomolecules induce by protein-energy malnutrition**
Ferreira, B.S.; Brochini, C.B.; Fock, R.A.; Borelli, P. and. Medeiros, M.H.G.

T-26 **Decreased Expression of Antioxidant Enzymes is related to Oxidative Stress in Gastric Diseases Induced by Helicobacter pylori.**
Gurgueira, S.A.; Augusto, A.C.; Godoy, M.O.; Miguel, F.; Ribeiro, M.L.; de Mendonça and Pedrazzoli Jr, J.

2-Resumos.pmd 86 6/6/2005, 12:38

T-27 **Myeloperoxidase inhibition by epichatechin from *Banisteriopsis variablis* (*Malpighiaceae*) and its scavenger action over HOCl.**
Vellosa, J.C.R.; Khalil, N.M.; Claudino, C.S.; Barbosa, V.F.; Brunetti, I.L.; Bolzani, V.S.; Oliveira, O.M.M.F.

T-28 **Calorie Restriction Decreases Chronic Mitochondrial Oxidative Stress And Enhances Life Span In *Saccharomyces cerevisiae*.**
E.B.Tahara; M.H.Barros; B.Bandy; L.E.S.Netto; A.J.Kowaltowsk

T-29 **EFFECT OF MOLECULAR OXYGEN ON THE SPECIFIC PHOTOINDUCED REDUCTION OF HORSE HEART CYTOCHROME *C* BY TIO_2 PARTICLES**
Clemerson F. B. Dias; Alessandra Riposati; Otaciro R. Nascimento; Flávio A. Rodrigues and Iseli L. Nantes

T-30 **EFFECT OF HIGH CONCENTRATION OF REDUCING MONOSACCHARIDE ON DELTA-AMINOLEVULINATE DEHYDRATASE ACTIVITY OF HUMAN ERYTHROCYTE IN VITRO**
Brito V.B.; Soares J.C.M.; Folmer V.; Rocha J.B.T.

T-31 **Quercitrin prevents lipid peroxidation in vitro**
Dalla Corte C.L., Fachinetto R., Wagner C., Severo D. E. P., Costa Dias G. O., Morel A. F. and Rocha J.B.T.

T-32 **pH-Dependent Antioxidant Efficiency of Astaxanthin in Phosphatidylcholine Liposomes.**
Mano, C.M.; Cardozo, K.H.M.; Guaratini, T.; P Colepicolo; Barros, M.P.

T-33 **SOD/CAT ratio in alloxan induced diabetes in Wistar rats may be a key to acquire alloxan resistance modulation?**
E.G. Silva, G.A. Behr, A.R. Ferreira, F. Dal-Pizzol, J.C.F. Moreira

T-34 **Antioxidant potential of diphenyl diselenide: Studies on the effect at long term diet supplementation in rabbits**
Colpo, E.; Freitas, A.S.; Portella, R.L.; Perottoni, J.; Longhi, J.A.; Bem, A.F.; Rocha, J.B.T.

T-35 **Sulfate-dependent bioavailability of molybdenum and antioxidant responses of the dinoflagellate *Lingulodinium polyedrum***
A.B. Glavina; P. Colepicolo; M.P. Barros

T-36 **L-Glutamine Improves Plasma Glutathione Levels In An Oxidative Stress Model Mediated By Paraquat**
Vand Sand, C.; Opala Vieira, T.; Wilhelm Filho, D.; Silva, F.R.M.B.; Creczynski-Pasa, T.B.

T-37 **Antioxidant adaptations of the dinoflagellate *Lingulodinium polyedrum* upon ferrous sulfide-dependent molybdate availability in seawater**
C.O. Soares; P. Colepicolo; and M.P. Barros

T-38 **Investigation of Brazilian plant extracts for their antioxidant activity on a eukaryotic cell model**
Silva, C.G., Panek, A.D., Menezes, F.S., Eleutherio, E.C.A.

T-39 **The possible glutathione peroxidase-like activity of diphenyl diselenide *in vitro***
Portella, R.L.; Freitas, A.S.; Longhi, J.A.; Bem, A.F.; Rocha, J.B.T.

T-40 **Role of organochalcogenides in inhibition of serum peroxidation and glutathione peroxidase- mimetic activity**
Longhi, J.A.; Freitas, A.S.; Portella, R.L.; Santos, R.M.S.; Bem, A.F.; Rocha, J.B.T.

T-41 **Signals of decreased redox status, oxidative stress and increased systemic inflammatory response in the progression of chronic kidney disease**
Aveles PR, Criminácio CR, Gonçalves S, Riella M, Pecoits-Filho R, Nakao L

T-42 **Effect of Isolated Soy Protein and Casein in Lipid Peroxidation**
Chagas, C. M. A; Damasceno, N. R. T.; Carvalho, T. L.; Maia, F. M. M.

T-43 **OXIDATIVE STRESS IN HUMAN FIBROBLAST *IN VITRO* AND EFFECTS OF α-TOCOPHEROL**
C. Madjarof, M.C. Sogayar, and A.H.P. Ferreira

T-44 **Involvement of glutathione S-transferases in menadione detoxification.**
Pereira MD; Castro FAV; Herdeiro RS; Panek AD; Eleutherio ECA

T-45 **Photogeneration of Stable Radicals in Aggregated Forms of Phenothiazines**
Rodrigues, T; Santos, C.G.; Prado, F.M.; Baptista, M.S.; Di Mascio, P. and Nantes, I.L.

T-46 **DELTA-AMINOLEVULINATE DEHYDRATASE AS A POTENTIAL TARGET FOR SCREENING THE PROTEIN OXIDATIONS CAUSED BY BOTH DIABETES AND AGING IN MICE**
Folmer, V.; Brito, V.B.; Soares, J.C.M.; Silveira, I.D.; Rocha, J.B.T.

T-47 **Storage in the dry state: the role of trehalose and of the enzymatic defense system**
França M.B., Eleutherio E.C.A. and Panek A.D.

T-48 **Antioxidant Response of the Brown Mussel *Perna perna* Exposed to Zinc.**
Franco, J.F.; Trivella, D.B.B.; Dinslaken, D.F.; Trevisan, R.; Aggio, R.B.M.; Marques, M.R.F.; Bainy, A.C.D.; Dafre, A.L.

T-49 **The effect of high fat diet and its interaction with iron overload on risk factors for atherosclerosis: serum lipids, serum paraoxonase activity and oxidative stress in rats.**
Silva, M.; Silva, M. E; de Paula, H; Pedrosa, M.L.

T-50 **Effect of bixin on serum lipids and oxidative stress in rats fed with hypercholesterolemic diets**
Bonomo, L.F.; de Paula, H.; Pedrosa, M. L.; Silva, M; Rossoni Jr, J.V.; Silva, M.E.

T-51 **The adaptive response of yeast cells to peroxide stress**
Fernandes, PN; Mannarino SC; Silva, CG; Pereira MD Panek, AD and Eleutherio, ECA.

T-52 **Characterization of Organic Hydroperoxide Resistance Protein catalytic intermediates.**
Cussiol, J.R.R.; Oliveira, M.A.; Netto, L.E.S.

T-53 **Photochemical Effects of Phenothiazines on Cytochrome *C***
Santos, C.G.; Baptista, M.S.; Di Mascio, P.; Rodrigues, T. and Nantes,I.L.

T-54 **Quiescin/sulfhydryl oxidase (QSOX) is present and active in fetal serum**
Daniele F. Batista; Silvio M. Zanata; Joselito Getz; Felipe Caron; Francisco R. Laurindo; Lia S. Nakao.

Título dos Resumos

T-55 **Cooperation between *S. cerevisiae* catalase and thioredoxin peroxidase in the defense against oxidative stress**
Victor Genu; Caroline Vigo Cogueto; Luis Eduardo Soares Netto

T-56 **Photoprotection of Cytochrome *c* and PCPECL Liposomes Promoted by 1,4,5,8-Naphthalenetediimide Against Peroxyl Radicals**
Faria, P.A.; Rodrigues, T.; Brochsztain, S.; Nantes, I.L.

T-57 **Antioxidant Response to Oxidative Insult in *Paracoccidioides brasiliensis*.**
Dantas, A.S.; Felipe, M.S.S.; Campos, E.G.

T-58 **Generation of Reactive Oxygen Species and Catalase Activity in The Activation of a Model Of Hepatic Stellate Cells**
Guimarães E.L.; Franceschi M.F.S.; Guaragna, RM.; Borojevic, R.; Guma, FCR

T-59 **Cadmium absorption is directly related to Zrt1 and Zrt2 transporters in *Saccharomyces cerevisiae***
Riger, CJ, Panek AD and Eleutherio, ECA

T-60 **Participation of nitric oxide-derived oxidants in acetaminophen-induced liver injury as attested by the protective effects of the nitroxide tempol**
D. F. Trindade and O. Augusto

T-61 **The effect of melanin on the oxidation of 2'-deoxyguanosine by singlet molecular oxygen**
Kurihara, T.A.; Hermes, C.Z.; Oliveira, M.B.M.; Cadena, S.M.S.C.; Carnieri, E.G.S.; Rocha, M.E.M.; Di Mascio, P.; Medeiros, M.H.G.; Martinez, G.R.

T-62 **EFFECTS OF HALOPERIDOL AND FAT- DIET ON INTRACELLULAR MAGNESIUM CONTENTS, ABDOMINAL FAT AND LIPID PEROXIDATION IN WISTAR RATS.**
Roos, D. H., Silveira, I. D., Fachinetto, R., Burger, M. E., Rocha, J. B. T.,

T-63 **BIOCHEMICAL EFFECTS OF TREATMENT WITH HYDROCHLOROTHIAZIDE AND/OR SUCROSE IN MICE.**
Ávila, D.S; Ribeiro, M. C. P.;Monteiro, R., Rocha, J.B.T.

T-64 **Reduced Glutathione Increases the Hemolytic Properties of Organochalcogenides**
Schiar, V.P.P.; Santos, D.B.; Lüdtke, D.S.; Vargas, F.; Braga, A.L.; Zeni, G.; Rocha, J.B.T.

T-65 **Response of Oxidative Stress Enzymes Biomarkers in the Diatom *Minutocellus polymorphus* Exposed to Diphenyl Ether Herbicide.**
Torres, M.A.; Campos, S.; Souza, L.; Colepicolo, P.

T-66 **Effect of an aqueous extract of annato (*Bixa orellana*, L) in rats fed with a hypercholesterolemic diet**
de Paula, H.; Silva, M.; Rossoni Jr, J.V.; Duarte-Campos, K.K. and; Pedrosa, M. L.; Silva, M.E.

T-67 **Effects of Heavy Metals in Photosynthetic Pigment Contents in *Gracilaria tenuistipitata* var. liui Zhang & B. M. Xia**
A.M.P. Neto, E. Pinto and P. Colepicolo

T-68 **Evaluation of Polymorphonuclear Leukocytes Oxidative Burst from Golden Syrian Hamster: a Flow Cytometric and Chemiluminescence Study.**
Kanashiro, A.; Turato, W.M.; Kabeya, L.M.; Martinelli F.; Azzolini, A.E.C.S.; Polizello, A.C.M.; Faccioli, L.H.; Uyemura, S.A.; Lucisano-Valim, Y.M.

T-69 ***Aedes aegypti* and *Rhodnius prolixus* biliverdins are hydrosoluble antioxidants?**
Pires, R.S.; Pereira, L.O.R.; Almeida, C.B.; Scofield, V; Oliveira, P. L. and Paiva-Silva, G.O.

T-70 **Comparison of the formation of 8-oxo-7,8-dihydro-2´-deoxyguanosine and 1,*N2*-etheno-2´-deoxyguanosine in DNA from cells exposed to iron**
Garcia, C.C.M., Loureiro, A.P.M., Marques, S. A., Di Mascio, P. and. Medeiros, M. H. G

T-71 ***In vivo* antioxidant activity of *Ouratea parviflora* hydroalcoholic fraction**
K.A. Carbonari; M. N. Manjavachi; K. B. Felipe; E. A. Ferreira; J. M. Rebello; A. Pereira; J.D. Felicio; E. Gonçalez; M.H. Rossi; R. Geremias; R.C. Pedrosa

T-72 **Does Sleep Deprivation Produce DNA Damage?**
Calegare BFA, Domingues AFS, Tufik S, D\'Almeida V.

T-73 **Monomeric beta$_2$-glycoprotein I, but not dimeric, inhibits the activation of human polimorphonuclear cells**
PEREIRA, E.M.; RODRIGUES, M.R.; BRUNIALTI, M.K.C.; SALOMÃO, R.; JUNQUEIRA, V.B.C.; GOMES, L.F.

T-74 **BLOOD PLASMA AND SALIVA ANTIOXIDANT CAPACITY CHANGES IN YOUNG MALE BASKETBALL PLAYERS AFTER 5 WEEKS OF TRAINING.**
P.G. Gandra.; L. A. S. Nunes; M. A. Passos; A. A. Alves; L. T. Kubota; D. V. Macedo

T-75 **HIGH-FAT DIET AND HYDROCHLOROTHIAZIDE CHANGES BIOCHEMICAL INDEXES OF OXIDATIVE STRESS IN RATS.**
Ribeiro, M. C. P; Ávila, D.S.;Monteiro, R., Rocha, J.B.T.

T-76 **A Prospective Study on the activity of Antioxidant Enzymes in Postmenopausal Women during Calcium Supplementation**
Hahn, M.; Augusti, P.R.; Frizzo, C.; Conterato, G.M.M.; Unfer,T.C.; Rocha,J.B.T.; Silva,J.C.; Emanuelli, T.

T-77 **EFFECT OF CANCER-RELATED CACHEXIA IN MACROPHAGE FUNCTION**
Bracht L. and Oliveira M.B.M.

T-78 **Protective Effect of N-Acetylcysteine on INS-1E Rat Insulinoma Beta Cell Line Subjected to Oxidative Stress**
Carvalho, A.M.; Sogayar, M.C. and Colepicolo P.

T-79 **Study of the Molecular Mechanism of Action of Benzo[1,2-c]1,2,5-oxadiazole N-oxide Derivatives as Potential Anti-trypanosomal Agents**
Tórtora, V., Möller, M., Porcal, W., Di Maio, R., González, M., Cerecetto, H., Thomson, L., and Denicola, A.

T-80 **Possible Oxidative Stress Implications During Phenol Biotransformation Process in Diatom *Minutocellus polymorphus***
Campos, S.C.G.; Torres, M.A.; Souza, L.M.; Pinto, E; Colepicolo, P.

T-81 **ANTIOXIDANT ACTIVITY *IN VITRO* OF *ILEX PARAGUARIENSIS* ST. HIL. (AQUIFOLIACEAE) EXTRACT IN COMPARISON TO FLAVONOID RUTIN**
Schoenfelder, T., Cologni, P, S., Cirimbelli, T. M, Yunes, V., Campos L. C., Fernandes, M,S., Predrosa R. C

2-Resumos.pmd 88 6/6/2005, 12:38

T-82 **Effect of Phytosterol in Generation of Antibodies Anti-LDL$^-$ in Hypercholesterolemia**
Mello,A.P.Q.; Souza,S.M.; Gidlund M.; Abdalla, D.S.P.;Damasceno, N.R.T.

T-83 **Bacterial Inactivation by Photodynamic Therapy using Liposome System as Dye Carrier**
Paulino, T.P. Bolean, M., Thedei Jr, G., Tedesco A.C. and Ciancaglini P.

Outros

U-1 **A PCR-based strategy to generate chimeric murine IL-13alpha 2 receptor fused to the CH2-CH3-hinge region of IgG2a for gene therapy**
Hebeler-Barbosa, F.; Puccia, R.; Travassos, L.R.

U-2 **Development and characterization of a novel multidrug resistant cell line**
\underline{Pinto-Silva, F.E.}; Affonso-Mitidieri, O.R.; Rumjanek, V.M.

U-3 **Effects of sugar cane juice ingestion on the restoration of muscular and liver glycogen stores following exhaustive exercise in rats.**
Stancanelli, M.; Normand, A.C.; Passos, M.A.; Netto,F.M.;Macedo,D.V

U-4 **EFFECT OF SUNFLOWER OIL ON SEMEN CHOLESTEROL, PHOSPHOLIPIDS AND FERTILITY OF MALE CAPRINES**
Santos, B. S. dos; Absalão, S. A.; Pimenta Filho, A. A.; Pereira, D. R.; Azevedo Neto, J.; Carvalho, V. C. O.; Lima, V. L. M.

U-5 **Comparison between biochemical and hematological analysis through capillary and venous blood puncture.**
Nunes, L.A.S.; Macedo, D.V.

U-6 **Combination of Endophytic Diazotrophic Bacteria Inoculation and Humic Acids Aplication Affect P-type H^+ -ATPase Activity, Protein Profile and Lateral Roots Emission of Sugarcane**
Marques Jr., R.B.; Zandonadi, D.B.; Evaristo,J.A.M.; Retamal, C. A.; Canellas, L.P., Façanha A. R. & Olivares L.P.

U-7 **The Use of Biological Selectors for the Control of Filamentous Bulking in an Activated Sludge Effluent Treatment**
Santos, J.A.; Souza, C.A.; Silva, C.M.; Rodrigues, R.S.;Rodrigues, J.I.S; Passos, F. L.

U-8 **Amino Acid Chemical Score in Different Protein Sources**
Pires, C.V.; Rosa, J.C.; Mendonça, E.G.; SantAna, R.C.O.; Cruz, G.A.D.R.; Rezende, S.T.; Guimarães, V.M.; Oliveira, M.G.A.

U-9 **Partial Purification of Factor IX from Human Plasma and Monitoring using Anti-FIX Polyclonal Antibodies**
Chaves, D. G.; Ferreira, W. A.; Rodrigues, C. V.; Guerra, C.D.; Carneiro-Proietti, A. B. F.; Santoro, M. M.

U-10 **Microperoxidase-8 Associated to DODAB Lipossomes: a Catalyst with Peroxidase Activity.**
Francisco Lindoval de Souza, Vinícius Matos dos Santos, Ana Maria Carmona Ribeiro and Iseli Lourenço Nantes

U-11 **COMPARISON AMONG THE DIFFERENT METHODOLOGIES OF ANALYSIS FOR BIOCHEMICAL OXYGEN DEMAND (BOD_5) IN EFFLUENTS OF A PULP AND PAPER MILLS**
RODRIGUES, R S.; SANTOS, J.A.; RODRIGUES, J.I.S.; COITINHO, J.B.; PASSOS,F.L.

U-12 **Effects of *Crotalus* venom on brain tumor cells in vitro: A comparative study**
Pujatti, P. B. Soares, M. A.; Gouvêa dos Santos R.

U-13 **POLYMORPHISM OF THE MBL2 IN PATIENTS WITH HCV INFECTION**
P.Moura; F.Montenegro; L.R.S. Vasconcelos; D.A.P. Albuquerque; P.R.E. Souza; M.S.M.Cavalcanti; J.L.Lima Filho; L.C. Arraes and S.Crovella

U-14 **The KBr Effect on the Interaction of Photodithazine and Photogem with HDL**
Natal, A. M. D.; Perussi; J. R.; Cesar, T. B.; Imasato, H.

U-15 **Biochemical and Biomechanical Properties of Tendons of Rats of Different Ages**
M.A.M. Esquisatto, G.P. Benevides, E.R. Pimentel, L. Gomes

U-16 **Effect of Dietary Electrolytic Balance and Crude Protein Levels in the Physical Characteristics of Broilers Tibiotarsus**
Ferreira, R.M.; Moraes, G.H.K.; Oliveira, M.L.; Vieites, F.M.; Oliveira, T.T.; Donzele, J.L.; Rodrigues, A.C.P.

U-17 **Weight Gain in Rats Submitted to Diets Prepared With Different Proteic Sources**
Pires, C.V.;Rosa, J.C.; Sant Ana, R.C.O.; Mendonça, E.G.; Costa, N.M.B.; Lopes, K.V.G.; Moreira, M.A.; Oliveira, M.G.A.

U-18 **Comparison of tumoral adrenocortical cells and normal human adrenal transcriptomes by mRNA differential display**
Gouvea, M.N.; Barbosa, A.S.; Mendonça, B.B.; Lin, C.J.

U-19 **Center for Structural Molecular Biotechnology and School of the Family: A Partnership Between University and Society**
T.H.G. Oliveira; E.S.M. Godoy; N.F. dos Santos; L.M. Beltramini

U-20 ***Tamarindus indica L.* extract prevents early atherosclerotic lesions in a hamster model**
Martinello, F.; Paschoarelli, P.V.G.; Franco, J.J.; Soares, S.M.; Santos, A.C.; Uyemura, S.A.

U-21 **Acute Toxicity of Oily Products from Pyrolysis of Rice Husk, Peach Pit, and Eucalyptus Sawdust**
Emanuelli, T.; Agostini, A.N.; Cardoso, A.L.; Diniz, J.; Stahl, J.A.; Martins, A.F.

U-22 **Physical, Biochemical and Mechanical Aspects of Broilers Chicks Tibiotarsus**
Reis, D.T.C.; Barbosa, A.A; Moraes, G.H.K.; Torres, R.A.; Rodrigues, C.S.; Müller, E.S.

U-23 **Screening of Potentially Toxic Organochalcogens with Erythrocytes**
Schiar, V.P.P.; Santos, D.B.; Lüdtke, D.S.; Vargas, F.; Paixão, M.W.; Dockhorn, A.E.; Braga, A.L.; Zeni, G.; Rocha, J.B.T

U-24 **Heparin - Poly-L-Lysine Interaction: Effects Of Temperature And Ionic Strength And Heparin Degree Of Polymerization.**
Pereira, G.H.N.; Ruggiero Neto, J and Fossey M.A. –

2-Resumos.pmd 89 6/6/2005, 12:38

Título dos Resumos

U-25 **Determination and Quantification of Mycosporine-like amino acids During Growth of the Dinoflagellate *Lingulodinium polyedrum* with Nutrient Limitation**
Cardozo, D.M.; Cardozo, K.H.M.; Carvalho, V.M.; Colepicolo, P.; Pinto, E.

U-26 **Preliminar Proteomic Analyse of Epididymal Spermatozoa**
Dias, GM; Chapeaurouge, A; Pacheco, FV; Alves, EW; López ML; Retamal, CA.

U-27 **Cytotoxicity and Biocompatibility of Resin Modified Glass Ionomer Cements**
Souza, P.P.C., Costa, C.A.S.; Aranha, A.M.F.; Hebling, J.; Costa-Neto, C.M.

U-28 **Thermodynamics of Competitive Binding of Ca^{2+} Ions To Nucleic Acids: Effects of the Nucleic Acids Secondary Structures**
I.T.Valadares, M. A. Fossey, J. Ruggiero Neto

Bioinformática

V-1 **Most effective positioning of the sequencing primer**
F. Prosdocimi and J.M. Ortega

V-2 **High-Performance Virtual Screening of Large Libraries of Chemicals for the Identification of New Potential Agonists of Liver X Receptor**
Honorio, K.M.; Andricopulo, A.D.; Garratt, R.C.

V-3 **Virtual Screening of Large Librares of Molecules for the Identification of New Potential Inhibitors of Adenine Phosporibosyltransferase from *Leishmania tarentolae***
Nicoluci, R.P.; Andricopulo, A.D.; Oliva, G.; Costa, L.F.; Thiemann, O.H.

V-4 **Function prediction of Phospholipases A2 through a bioinformatics approach**
Pazzini, F.; Amorim, H.L.N.; Guimarães, J.A.

V-5 **Organization of the Tryptophan Biosynthesis Genes in *Chromobacterium violaceum***
Oliveira, I.L.; Carminatti, C.A.; Recouvreux, D.O.S.; Porto, L.M.

V-6 **Integrating Sequence Data in Metabolic Map Model**
Martins, A.R.; Brum, I.J.B.; Kitajima, J.P.; Galembeck,E.

V-7 **Methodology Development For The Identification Of Myotoxic Phospholipases A2 (PLA2) Utilizing Primary Sequences.**
Oliveira, F.S.; Pazzini, F.; Amorim, H. L. N.; Guimarães, J. A.

V-8 **STRUCTURE-ACTIVITY RELATIONSHIP (SAR) OF NEW ANTIVIRAL CANDIDATES**
Loureiro, N.I.V.; Castro, H.C.; Albuquerque, M.G.; Azevedo, A.R.; Bernardino, A.M.R.; Gomes, A.O.; Freitas, A.C.C.; Albuquerque, S.; Frugulheti, I.C.P.P. and Rodrigues, C.R.

V-9 **Computational Prediction of extracellular proteins in *Kluyveromyces lactis***
Brustolini, O.J.B.; Santos, A.V.; Oliveira, A.B.N.; Mafra,C.L.; Passos,F.M.L.

V-10 **DIAGNOSING HODGKIN'S DISEASE BY SUPPORT VECTOR MACHINES AND GLOBAL PROTEOMIC PROFILE OF SERUM OBTAINED WITH ESI-MS**
Paulo C. Carvalho; Maria da Gloria C Carvalho; Wim M Degrave; Sergio Lilla; Gilberto De Nucci; Raul Fonseca; Nelson Spector; Juliane Musacchio and Gilberto B Domont

V-11 **Phylogenetic and Topological analysis of Dihydrofolate Reductase and Thymidylate Sinthase Genes in Bacteria Genome: evolutionary correlation**
Moreau, V. H.; Ferrão-Gonzales, A. D.; Sardi, S. I.; Campos, G. S.

V-12 **Evolution of Proinsulin C-Peptide Primary and Secondary Structures**
T.R. Mares-Guia; A. Pimenta; L. Vilela; M. Mares Guia and M.M. Santoro

V-13 **A Large Scale Gene Expression Analysis of the Human Brain**
P.A.F. Galante; S.J. de Souza; B. Malnic

V-14 **Hologram Quantitative Structure-Activity Relationships for a Series of Farnesoid X Receptor Activators**
Honório, K.M.; Garratt, R.C.; Andricopulo, A.D.

V-15 **Modelagem molecular da quinase dependente de ciclina 1 complexada com inibidores**
A. H. Casé, F. Canduri, H. B. Uchôa, W. F. de Azevedo Jr.

V-16 **Study on interaction between flavonoids and serine-proteases by automatic docking**
Júlio César Dias Lopes; Andrelly Martins José; Fernando Antônio Madeira; Jairo Cambraia de Abreu Jr.

V-17 **Verification based on domain structure of automated annotation/classification at Biodados Protein Classification Tool**
Torres, J. A.; Mudado, M. A.; Barbosa, A.; Ortega, J. M.

2-Resumos.pmd 90 6/6/2005, 12:38

Índice de Autores

A

Abdala, S.B.; SP.08-3
Abdalla, D.S.P.; T-23, T-82
Abdelhay, E.; B-48
Abrantes, J. L.; F-26
Abrão, S.C.C.; H-83
Abreu Jr., J. C.; V-16
Abreu, L.F.; A-4
Abreu, L.R.D.; L-114, L-27, L-34, SP.06-2
Abreu, P.A.; N-71
Abreu, P.A.E.; H-10, H-68, H-74, H-81
Abreu-Fialho, A.P.; F-18
Adamson, E.; SP.12-3
Affonso, O.R.M.; P-3, U-2
Affonso, R.; N-109
Afonso, A. S.; N-98
Afonso, L.C.C.; G-35
Aggio, R.B.M; R-8, T-48
Agostinho Neto, A.; Q-6
Agostini, A.N.; U-21
Aguiar, A.S.; N-58
Aguiar, K.P.; D-46, D-85
AGUIAR, M. B.; S-54
Aguirres, A.B.; J-14
Ahn, I.Y.; B-44
Aires, K.A.; H-11, H-12
Aita, M.H.C.; L-134
Albano, R.M.; C-6, N-110
Alberici, L.C.; A-35, A-38
Albericio, F.; CF.13
Albernaz, F.P.; N-107, N-117
Albertini, A.V.P.; H-29
Alberton D.; H-84
Alborghetti, MR; N-77
Albuquerque, E.M.M.; C-33, M-92, M-94
Albuquerque, EMV; A-50
Albuquerque, I.R.L.; M-7
ALBUQUERQUE, L. P.; N-38
Albuquerque, M.G.; N-71, P-12, P-26, V-8
Albuquerque, P.R.; C-33
Albuquerque, S.; V-8
Alcantara, P.H.N.; SP.19-3
Alchini, R.; R-1
Alegria, M.C.; F-14, F-59
Alencar, L.C.A.; U-13
Alexandre, G.M.C.; N-130
Alexandrino, A.M.; L-96
Alfenas, A.; SP.09-3
Alisson-Silva,F.; N-31
Almeida M.A.O.; R-12
Almeida, A.M.; E-85
Almeida, C.B.; D-25, T-69
Almeida, E.R.; N-129
Almeida, F.C.L.; D-82, N-107, N-116, N-117, N-154, N-156, N-158, N-41, N-47, N-59, N-67, Q-3
Almeida, F.T.; D-47, D-53
Almeida, F.V.R.; L-66
Almeida, H.O.; E-104, S-36
Almeida, I.C.; D-19, M-23, M-61, M-68
Almeida, J.V.; D-41
Almeida, L.M.V.; R-38
Almeida, M.G.; I-1
Almeida, M.N; L-105, L-117
Almeida, M.R.; F-64, F-66
Almeida, M.S. (H1); N-41, N-67
Almeida, P.C.; L-113, SP.06-5
Almeida, R. V.; L-45
Almeida, R.C.; R-16
Almeida, W.I.; L-122, N-139
Almeida,L.E.L.; P-20
ALMEIDA. M.F.; H-75
Almeida., P.; S-20
Almeida-Amaral, E.E.; L-107, L-108
Alquéres, S.M.C.; L-45
Alvarez, C. (1); N-18
Alvarez, C.E.; N-118
Alvarez, L.D.G.; P-22, R-20
Alvarez-Silva, M.; J-11, J-13, J-21, J-4, J-9, R-49
Alves, AA; T-74
Alves, B.S.C.; B-53
Alves, C.A.; N-80
Alves, E.W.; E-129, F-23, G-77, U-26
Alves, F.M.; L-9
Alves, J. M.; K-21
Alves, K.B.; L-4
Alves, L.C.; L-53, L-56
Alves, L.G.; M-27, M-97, M-99
Alves, L.R. (H2); C-26, N-166
Alves, M.T.; G-73
Alves, NS; F-37
Alves, S.L.Jr; H-109, H-61
Alves, T.L.M.; H-87, L-45
Alves-Ferreira, M. (H1); A-39
Alves-Lara, F.; D-17
Alves-Prado, H. F.; F-22
Alviano, C.S.; A-5, M-51, M-61
Alviano, D.S.; A-5
Alzari, P.M.; SP.15-2
Amaral, A.M.; F-43, SP.09-1
Amaral, I.P.G.; L-123, L-124, L-131
Amaral, J.J.; F-57
AMARAL, M.S.; G-35
Amaral, PPR; B-14, B-27, B-40
Amarante-Mendes, G.P.; SP.21-2
Amazonas. J. N.; L-126
Ambrósio, A.L.B.; N-29, N-49
Ambrósio, D.L.; G-56
Amino, R.; N-180
Amorim, G.C.; N-47
Amorim, I. M.; E-88
Amorim, R.C.N.; M-73
Amorim; E-58
Anazetti, M.C.; P-16, P-24
Anders, E.M.; SP.02-3
Andersen, J.F.; CF.15
Andrade, A.C. (H2); N-20
Andrade, A.S.R.; G-40
Andrade, C.A.S.; N-43, N-8
Andrade, C.M. (H2); H-119
Andrade, C.M.B.; J-14, L-119, M-37
Andrade, D.; L-30
Andrade, G.F.S.; S-33
Andrade, G.P.V.; M-27, M-55, M-92, M-99
Andrade, L.R.; M-43
ANDRADE, M L L; L-27
Andrade, M V V; D-75
Andrade, M. O.; F-14
Andrade, M.H.G.; N-128
Andrade, S.S.; E-94
Andrade, T; K-19
Andreazza, A.C.; R-3
Andreolli, A.B.P.; G-75
Andreoni, J.M.; B-57
Andrich, F.; N-132
Andricopulo, A.D.; G-36, L-39, SP.08-4, V-14, V-2, V-3
Ane Zeidler; F-38
ANGELI, A.; M-65
Angeli, R.; H-27, H-28, H-35
Angelo, P.C.S.; E-76
Angelo, P.F. Jr.; L-24
Anjos, E.F.; L-102
Anjos, Tatiana P; E-13
AnoBom, C.D.; N-116
Anselmi, A.M.; R-45
Antão, J; A-14
Antoniazzi, M.M.; S-52
Antônio, R.V.; F-25, F-47, K-12
Antunes Neto, J.M.F.; T-2
Antunes, E.; E-12, E-21, J-19, L-40
Antunes, O.A.C.; SP.20-4
Aoyama, H.; E-90, J-17, L-102, L-106, L-99, P-4
Aparício, R.; N-137, N-49, SP.15-3
Appel, M.H.; C-47
Apponi, L.H.; G-13, G-51
Apriletti, J.W.; SP.15-3
Aquino Neto, F.R.; C-5
Aquino, R.S.; M-10, M-12, M-33
Aragão, E.A.; N-34
Aragão, F.J.L.; E-108
Arahata, D; C-16, C-50
Arakawa, N. S.; H-24
Aranha A.M.F.; U-27
Arap, W.; N-116
Araujo Júnior, R.T.; D-34, D-8, N-15
Araujo, A.P.B.; B-13, M-23
Araujo, A.P.U.; E-13, E-15, E-34, F-12, F-56, N-171, N-177
Araújo, C. O.; H-45
Araújo, D.G.; F-47
Araujo, D.R.; H-9, J-17, L-106
Araújo, E.F.; G-38, G-78, G-79
Araújo, F.F.B.; H-27, H-98, N-42
Araújo, Ioná Santos; E-3, E-70
Araújo, J.M.; SP.19-2
Araújo, L.; I-25
Araújo, L.M.; F-48
Araujo, M.S. (H1); L-132, L-72, L-76
Araujo, R. F. A; M-54
Araujo, R.A.; D-55
Araujo, R.C. (H2); H-40, J-5
Araújo, R.F.F.; O-6
Araújo, R.J.O; P-20
Araujo, R.M.S.; N-38
Araujo, R.V.S.; H-25, H-98
Araujo, U.C.; R-11
Araújo,T.G.; I-10, I-7
Arêas, A.P.M.; H-8
Argolo, A.C.C.; H-31, H-35, H-4, H-63, I-9
ARIZA, C. B.; B-13
Arizi, M.B.; L-26, L-52, L-82
Armelin, H.A.; J-1, J-22, N-153
Armôa, G.R.G.; H-121
Arni, R.K.; N-106, N-127, N-50
Arnoldi, F.G.C.; D-64, N-103, SP.14-3
ARRAES, L. C.; H-120, H-66, SP.02-3
Arrial, R.T.; E-89
Arruda, A.P.S.A.; A-11, A-22
Arruda, M.A.; S-55
Arruda, M.S; H-65
Arruda, MA.A.; C-9
Arruda, P.; A-21, N-80
Ary, M.B.; E-58
Ascencio, S.D.; H-79, M-38
Asensi, G. F.; F-1
Assafim, M.I.D.A.; P-14, P-6
Assakura, M.T.; N-65
ASSIS, D. M.; L-53, L-56
Assis, D.R.; JT.18-4
Assis, GF; C-13
Assis, M.L; E-78
Assis, P.A.; F-65
Assis,E.B.; N-178
Assis-Pandochini, A.I.; O-2
Assmann, E.M.; N-144
Assreuy, J.; L-60
Astua Monge, G.; SP.09-1
Atella, G.C.; D-28, D-29, D-37, D-43, D-76
Athaydes, G. A.; C-48, R-51
Attias, M.; D-43, N-179
Atzingen, M.V.; H-10
Augusti, P.R.; L-134, T-76
Augusto A.; L-57
Augusto A.C.; T-26
Augusto, O.; T-15, T-60
Aurelio Hidalgo; H-69
Avaca, J.S.; G-59
AVAKIAN, K. C.; M-59
Avanci, N.C.; E-126, E-38
Avelar, J.C.; E-121
Aveles,PR; T-41
Avellar, I.G.J.; K-1
Ávila, D. S. de; T-63
Ávila, D.S. de; T-75
Ayres, C.F.J.; D-3
Azeredo, F.J.; F-77
Azevedo Neto, J.; I-8, U-4

3-Indice_autores.pmd 91 6/6/2005, 12:38

Índice de Autores

Azevedo, A.M.; E-59
Azevedo, A.M.P.; K-14
Azevedo, A.R.; V-8
Azevedo, B.I.T.; E-2
Azevedo, E.B.; D-59
Azevedo, I.G.de; A-25
Azevedo, J.S.; N-143
Azevedo, R.B.; N-97
azevedo, s. a.; I-8, U-4
Azevedo, T.C.G.; G-8, M-15, M-25, M-57
Azevedo-Martins, A. C.; G-12
Azzolini, A.E.C.S.; O-2, T-68
Azzoni, A. R.; F-73

B

B. Block; A-33
Babá, E.H.; H-46
Baba, EH; B-56
Bacci, M.; D-12, D-26, G-1, L-35
Badotti, F.; H-60, I-11
Bagnato, V.S.; H-108
Bahia, MT; G-58
Bainy, A.C.D.; T-48
Bakker N; G-62
Balan, A.; N-55
Balani, VA; B-51
Baldani, J.I.; E-20, SP.22-4
Baldo, C.; N-87
Balduíno, K. N.; L-83
Bandy, B. (duplicado); T-28
Baptista, C.S.; SP.08-3
Baptista, L. P.; E-123
Baptista, M.S.; T-45, T-53
Baptista, N. B.; S-41
Baptista-Silva, JCC; E-93
Baqui, M.M.A.; B-35
Baracat-Pereira, M.C.; E-104, E-113, E-31, E-56, E-63, K-11, K-18, S-36
Baranauskas JA; L-1
Barata, R.M.; E-17
Barauna, S. C.; R-49, R-56
Barbieri, N.L.; F-77
Barbosa A; B-52
Barbosa Jr., A.; L-97
Barbosa, A. C.; M-4
Barbosa, A.A.; U-22
Barbosa, A.M.; H-76, H-95, M-40, M-69
Barbosa, A.S. (H2); U-18
Barbosa, A; V-17
Barbosa, CMV; J-5
Barbosa, D.A.; F-55
Barbosa, D.S.; E-1
Barbosa, E.H.A.; N-36
Barbosa, F.M.; M-51
Barbosa, J.A.R.G.; N-120, N-126, N-53, N-55, N-83, N-86, SP.11-3, SP.11-4
Barbosa, L. A. O.; A-3
Barbosa, L.C.; F-32
Barbosa, L.F.; T-18
Barbosa, M.O.; E-104
Barbosa, N.B.V.; C-43
Barbosa, R. R.; E-128
Barbosa, R.J.V.; C-28
Barbosa, V.F.; T-27
Barbosa-Tessmann, I.P.; H-83, H-84
Barboza, NR; G-57
BARCELLOS, P.S; A-35
Barcelos, A.P.L.; E-41, E-45
Barcena, J. A.; L-17
Barchiki, F.; E-55, S-29
Barcinski, M.A.; B-1, B-23
Barja-Fidalgo, C.; S-10, S-45, S-55
Barrabin, H.; A-24, A-39, N-24
Barreiro, E.J.; N-159, P-5
Barreto Gomes, D. E.; N-92
Barreto, A.L.H.; E-73
Barreto, F.; I-22, L-129
BARRETO, G.E.S.; P-22, R-20
Barreto, K.P.; B-50
Barreto-Bergter, E.; M-39, M-60, M-61, M-67, N-41
Barreto-Chaves, M.L.; L-49
Barrios, H.; SP.04-3
Barros, C.M.; M-43
Barros, E.G.; E-1, E-115, E-117, E-45
Barros, J.A.; I-26
Barros, LMG; E-89
Barros, M. H. (duplicado); T-28
Barros, M.P.; T-1, T-32, T-35, T-37
Barros, N.M.T.; L-10, L-8
Barroso, S.P.C.; N-79
Barsalobres, C.F.; E-7
Barschak, A.G.; C-19
Baruque-Ramos, J.; H-26
Baseia,I.G.; G-8
Basilio; SP.09-1
Basso, L.A.; F-10, F-29, F-31, F-5, F-6, H-111, H-13, H-48, H-52, L-32, L-36, L-38, N-17, N-172, N-69, N-85, P-11
Bastiani, M.; F-77
Bastolla, F.M.; E-103
Bastos M S; G-34
Bastos M.F.; B-55
Bastos, AQA; G-58
Bastos, M.C.F.; N-117
Bastos, M.F.; B-8
Bastos, W.A.; E-107
Bastos,KRB; SP.21-2
Basttianel, M.; SP.09-1
Batista LM; P-15
Batista, A.S.; H-60
Batista, E. S.; D-27
Batista, F. A. H.; N-177
Batista, I.F.C.; B-45
Batista, P. R.; N-36
BATISTA; T-54
Batistela,D.M.; Q-4
Batistote, M.; G-63
Battastini, A.M.O.; L-119, L-49, R-35
Battú, C. E.; R-17
Baura, V.A.; F-17, F-48
Bavaresco,L.; L-49
Baxter, J.D.; N-137, N-88, SP.15-3
BAZZO, M. L.; P-17
Beatriz De Camargo; B-10
Becker, C.F.; M-18, M-44
Becker-Ritt, A.B.; L-120
Beghini, D.G.; O-1
Behr, G.A.; C-20, T-33
Beleboni, R.O.; JT.18-5
Belém, A.C; A-42
Bellini, M.H.; B-37, B-39
Belmiro, C.L.R.; M-21
Beloti, M.M.; L-31
Beltramini, L.M.; E-92, K-15, K-16, K-5, N-112, N-27, SP.19-4, U-19
Beltrão, E.I.C.; C-18, C-24, C-25, C-27, C-52, C-53, E-127, H-101, K-4, N-99
Beltrão, H.M.B.; D-58
Bemquerer, M. P.; E-86, N-119
Benassi, V.M.; L-104
Benchimol, J.F.; E-105, E-22
Benedetti, C.E.; F-59, N-10
Benelli, E.M.; F-48
Benevides, G.P.; M-4, U-15
Benevides, N.M.B.; M-53, M-73
Bengtson, M.H.; J-15
Bento, J.F.; M-49, M-75
BERBERT-MOLINA, M.A.; H-112
Berger,M.; L-68
Beriam, L.O.S.; L-40
Bernabe, R.B.; E-68
Bernard, E.A.; I-22, L-129
Bernardes, E.S.; M-3
Bernardes, N R; A-46
Bernardi, A.; L-49
BERNARDI, G.F.; L-26, L-52, L-82
Bernardino, A.M.R.; P-26, V-8
Bernstein, A.; C-2
Bertalan; F-68
Bertholdo, I.; H-45
Bertini, S.; O-5
Bertolini, M. L. C.; M-72
Bertolini, M.C.; F-61, F-65, G-32, G-53, G-59, L-74, N-39
Bertoncini, C.; L-17
Beton, D.; N-101
Bezerra Netto, H.J.C; C-5
Bezerra, I.C.; E-64
Bezerra, R.S.; C-25, C-53, H-116, H-38, L-123, L-124, L-131
Bianchin, M.M.; R-7
Bianconi, M.L.; K-19, K-20, L-44, Q-3
BIBEIRO, M.E.O.B.; R-40
Bifano, T.D.; D-6
Bincoletto, C.; J-5
Bisch, P.M.; B-48, F-20, F-21, F-32, F-41, F-7, N-154, N-92, S-23, SP.05-4
Bisio, A.; M-55, M-92, M-94
Bispo, J.A.C.; N-102, N-147
Bispo; A-44
Bisson-Filho, A.W.; G-42
Bitencourt, C.S.; O-2
Bittencourt, D. A.; J-13
Bittencourt, V.C.B.; M-39, M-67
Bizarro, C.V.; J-15
Blandin, G.; CF.10
Blatt, V, C; I-22
Bleicher, L.; N-49, SP.15-3
Bloch Jr., C.; D-33, E-49, E-50, E-53, E-54, E-61, H-51, H-55, S-17, S-19, S-24, S-26, S-28, S-3, S-42, S-56, S-8
Bloom, G.S.; CF.12
Boccardo, E.; H-11
Bock H.; B-46, C-34
Bodanese-Zanettini, M.H.; E-98
Boechat, A.L.; I-18
Boeck CR; R-5
Boer, C.G.; L-75
Bogo, K.R.; L-92
Bogo, M.R.; L-26, L-52, L-82
Bohrer, C.B.; D-40, L-60
Boileau, G.; L-8
Bolean,M.; T-83
Boleti, A.P.A.; N-15
Bolzani, V.S.; T-27
Bombarda, A.P.; M-62, M-63
Bomfim, L.R.; N-124
Bomfim, T.R.; N-146
Bon, E.P.S.; H-119
Bonaccorsi, E.D.; A-27, G-24, J-8
Bonafe, C.F.S.; A-44, N-102, N-147
Bonan, C.D.; L-26, L-52, L-67, L-82, R-15, R-52
Bonato, P.B.P.; I-1
Bonavides, K.B.; E-54
Bonfim, V.L.; N-160
Bonilla-Rodriguez, G.O.; L-125, L-127, L-128, N-111, N-149, N-35
Bonini-Domingos, C R; N-35
Boniolo, F.S.; F-9
Bonjardim, C.A.; F-46
BONKERNER, A.; M-20
Bonomo, L.F.; T-50
Bonseñor, L.B.; CF.12
Borba CM; L-133
Borecký, J.; A-21, C-4, E-11
Borges, A.C.; N-37
Borges, D.R.; S-31, S-32, S-34
Borges, J.C.; JT.18-2, N-123, N-16
Borges, K.M.; F-49
Borges, R.; E-128
Borges,CA; G-58
Borin IA; L-1

Borojevic, R.; I-12, J-14, J-18, L-119, M-37, T-58
Borowski C F; R-10, R-58
Bortoleto, R.K.; N-61
Bortollotto, J.W.; C-32
Boschcov, P.; C-29
Boschi, F.J.N.; L-95
Bossolan, N.R.S.; K-16, K-5
Botelho-Júnior, S.; E-44
Bouças, R.I.; M-80, M-82, M-87
Bouteille, B.; N-44
Bouton, E.A.; K-24
Bouts, D.M.D.; D-43, D-49
Boveris, A.; SP.01-1
Bozza, M.T; A-34, M-67
Bozza, P.T.; C-15, C-26
Braathen, P.C.; K-11, K-18
Bracht, L.; T-77
Braga M.M.; L-130
Braga, A.L.; T-64, U-23
Braga, C.A.C.A.; N-138
Braga, L.X.; I-13
Bragatto, I; D-81
Braghiroli, P.S.; M-32
Branco, A.T.; E-128, E-129, E-130, E-3, E-68
Brand, G.D.; S-25, S-26, S-28, S-8
Brandão, A.; D-24
Brandão, I.T.; O-3
Brandão, L.A.C.; H-120, H-66
Brandao, R.L.; G-25, G-3, G-69, G-71, G-74, G-76, H-106
Brandão-Neto, J.; I-9
BRANDENBURG, L.T.M.; R-54
Brandt, C.T.; C-12, C-37
Branquinha, M.H.; G-30, G-44, L-133
Brasil, I.C.F.; E-122
Braus, G.H.; CF.08, G-45
Bravim, F; G-66
Bravo J P; D-66, D-69
Braz, G.R.C.; D-13
Brennan, P.J.; F-55
Brentani, H.; B-10
Brentani, R.R.; R-7
Bressan, G.C.; E-41, N-77
Brewer L; D-19
Brigagão, M.R.P.L.; I-15, L-53, L-56
Brigato, O.M.; G-64
Brígido, M.M.; E-64
Brito Silva, J.J.; H-57
Brito, A. M.; G-60
Brito, A.C.L.; H-1
Brito, A.S.; M-55, M-92, M-94
Brito, B.V.; I-20, R-59, T-30, T-46
BRITO, J.O.; M-65
Brito,M.S.; E-124, E-38, E-67
Brito-Moreira, J.; R-24
Brochado, S.M.; B-25, B-29, B-32, B-62, B-8
Brochetto-Braga, M.R.; D-26, L-83, L-84
Brochsztain, S.; T-56
BROMMONSCHENKEL, S. H.; E-103
Brommonschenkel, S.H.; SP.09-3
BRONDANI, R. P. V.; E-103, SP.09-3
Brum, I.J.B.; V-6
Brunetta, P.S.F.; D-45, S-51
Brunetti, I.L.; L-135, L-95, T-11, T-27
Brunetto, G. B.; H-9
Brunialti, M.K.C.; T-73
Brustein, V.P.; H-30
Brustolini, O.J.B.; V-9
BS, Rossana; P-19
Buarque, D.S.; L-124, L-131
Buchi, D.F.; M-8
Buck, M.; F-76
Buckeridge, M.S.; SP.19-3
Bueno da Costa, M.H.; H-77, Q-13, Q-8
Bueno, J.; SP.09-3
Bueno, L. G. F.; S-7
Bueno, O.C.; L-35
Bueno,R.D.; D-35, D-8
Buffon, A.; C-39, L-78
Bugarelli, A.; B-5
Bulet, P.; S-40
Bürger, C.; C-36
Burger, M.E.; R-59
Burin, M.G.; C-42
Bursztyn, A. A.; N-78
Burth, P.; C-14, C-15, R-11
Buscacio, L. A. F.; N-7
Buscaglia, C.A.; CF.14
Bustamante, P.G.; E-57
Buzin, L.; R-31
Buzzin, L.; JT.18-4

C

Caballero, O L.; B-10, B-5
Cabral Neto, J.B.; B-21, B-26
Cabral, B.E.F.; C-27
Cabral, H.; L-125, L-127, L-128, L-81, N-121
Cabral, L.M.; E-105, E-22
Cabrera, M.P.S.; S-16, S-5
Cabrera-Crespo, J.; H-14
Caceres, RA; N-93
Cadena, P.G.; H-47, L-48, L-61
Cadena, S.M.S.C.; A-2, A-42, A-47, T-61
Cadet, J.; CF.21
Cahú, T. B.; H-116
Caiaffa, C.D.; E-123
Cainelli Gebara, V.C.B. ou Gebara, ;
Cajueiro, K.R.R.; H-5
Calazans, G.M.T.; H-27, H-5
Calegare, BFA; T-72
Cálgaro, A.F.; T-24, T-9
Calixto, V; H-40
Callado, A.K.C.; C-30
Calloni, G.W.; J-11, J-13
Calzavara-Silva, C.E.; G-15
Camargo, A. A.; B-12, B-18, B-36, C-35, N-23, R-54
Camargo, A.C.M.; B-24, B-42, B-55, B-8, C-45, N-65, S-52
Camargo, C.A.; J-17, L-106
Camargo, L.P.; B-10
Cambraia, R.S.; H-43, H-44, L-25, N-108
Cameron, L.C.; L-122
Campa, A.; I-23
Campanelli, A.P.; J-3
Campbell, D.A.; SP.16-3
Campello, C.C.; E-122, E-23
Campelo, R.P.; O-3
Campos, A.C.V.; J-6
Campos, C.B.L.; G-2
Campos, E.G.; T-57
Campos, F.S; B-23
Campos, G. S.; F-2, V-11
Campos, I. P. d. A.; C-44
Campos, I. T. N.; N-120, N-126
Campos, I.B.; H-12
Campos, L.M.; C-27
Campos, M. L.; H-56
Campos, S.C.G.; T-65, T-80
Campos-Takaki, G.M.; H-30, SP.19-2
Campostrini, F.; E-128
Candice Mello Romero Santos; N-129
Cândido, A.; L-61
Candido, C.S.; M-54
Canduri, F.; N-172, V-15
Canellas, F.; F-4, F-62, S-18
Canellas, L.P.; A-15
Canevari, G.C.; D-61
Cano, M.I.N.; G-14, G-19, G-48, G-49, G-6
Cano, V.S.P.; G-47
Cantú, M.D.; E-18
Capella L.S.; P-3
Capella M.A.M.; P-3
CAPPELLARI, A. R.; L-85, L-86
Caprini, G.P.; E-39
Caramori, S.S.; H-101
Carazzolle, M.F.; E-103
Carbonero, E.R.; G-27, M-31, M-56, M-70
Cardoso JLN; N-28
Cardoso, A. M. S.; G-76
Cardoso, A.G; H-27, N-42
Cardoso, A.L.; U-21
Cardoso, A.M.; F-71
Cardoso, A.S.C.; T-3
Cardoso, M. S.; L-18
Cardoso, M.S.; M-40, M-69
Cardoso, V.V.; D-83
Cardozo, D. M.; T-14, U-25
Cardozo, K.H.M.; T-14, T-32, U-25
Carla Gentile; D-21
Carlini, C.R.; E-111, L-116, L-118, L-120, N-150, N-90
Carlos Alberto, S.J.; G-67
Carminatti, C.A.; F-47, V-5
Carmo, T. S.; H-15, H-26
Carmona, A.K.; D-10, J-5, L-14, L-29, L-72, L-8, L-80, L-81
Carmona, E.C.; L-83, L-84
Carmona-Ribeiro, A.M.; N-141, N-89, Q-10, Q-7, Q-9, U-10
CARNEIRO JUNIOR, J. B.; E-128, E-130
Carneiro P. B. M.; E-28, E-99
Carneiro, C.N.B.; D-72
Carneiro, F.R.G.; N-148
Carneiro, M.; E-89
Carneiro-da-Cunha, M.G.; H-105, H-28, H-30, H-36, H-38, N-43, SP.19-2
Carneiro-Leão, A.M.A.; H-105, H-25, H-98, K-21, P-21, SP.19-2
Carneiro-Proietti ABF; U-9
Carnieri, E.G.S.; A-2, A-42, A-47, A-48, T-61
CARO, M.S.B.; Q-5
Carolino, R.O.G.; JT.18-5
Carolino, S.M.B.; E-108, E-30, E-32
Carqueja, C.L.; R-7
Carregaro F; N-121
Carreira, A.C.O.; A-10
Carrijo, L.C.; D-1
Carrilho, E.; E-18, F-11, F-12, F-56, F-63
Caruso, C.S. (H1); F-11, F-12, F-56
Caruso, M.B.; F-62, S-18
Caruso-Neves C; L-107, L-108, P-29
Carvalho Jr., L.B.; C-24, C-27, C-52, E-127, H-101, H-116, H-27, H-5, L-123, L-124, L-131, O-6
Carvalho L.V.; C-45
Carvalho P. C.; V-10
Carvalho, A. O. R.; D-12
Carvalho, A. P.; A-28, A-29
Carvalho, A.M.; T-78
Carvalho, A.M.X.; K-11, K-18
Carvalho, A.O.; E-3, E-48, E-8
Carvalho, B.M.; I-10, I-7
Carvalho, C. A. M.; F-35
Carvalho, D C; H-22, H-86
Carvalho, D. C.; N-138
Carvalho, D.P.; A-11, T-7
Carvalho, E.; B-21, H-20
Carvalho, E.B.; M-79
Carvalho, F.M.; G-71
Carvalho, H. L.; E-32
Carvalho, J.F. (H2); A-6
Carvalho, K.A.T.; P-19
Carvalho, M.G.C.; V-10
Carvalho, P.P; D-2, H-31
Carvalho, S.E.; G-37, H-58, H-59
Carvalho, S.T.; N-159
Carvalho, T. L.; T-42
Carvalho, T.L.G.; SP.22-4
Carvalho, T.M.U.; F-34

3-Indice_autores.pmd 93 6/6/2005, 12:38

Índice de Autores

Carvalho, V.C.O.; I-8, U-4
Carvalho, V.M.; T-14, U-25
Carvalho-Alves, P.C.; A-32, E-66, N-107, N-139, R-32
Casado Filho, E.L.; N-75
Casali, E.A.; L-78
Casallanovo, F.; E-92
Cascardo, J.C.M.; E-103, N-122, SP.09-2, SP.09-3
Casé, A. H.; V-15
Caseli, L.; N-4
Caserta, R.; F-49
Cassiano, L. A. P.; N-129
Cassina, A.; JT.18-4
Cassolato, J.E.F.; M-85
Cassoli, J.S.; N-132
Castellari, R.R.; N-100, N-83
Castello Saenz; F-27
Castelo-Branco, M. T. L.; M-21
Castilho, L.N.; C-50
Castilho, M.S.; L-39, N-13, SP.08-4
Castilho, R.F.; C-38, C-4, R-32, SP.01-3
Castilho. P. V.; E-34
Castro Antunes; J-21
Castro Faria Neto, H.C.C.; C-15
Castro Faria, M.V.; C-14, C-15, R-11
Castro FAV; T-44
Castro, A.P. de; H-53
Castro, H.C.; E-74, N-135, N-150, N-71, P-12, P-26, R-28, V-8
Castro, I.M.; B-49, G-25, G-3, G-69, G-71, G-74, G-76, H-106
Castro, L. A.; F-64, F-66, F-72
Castro, L.M.; L-101, L-110
Castro, L.S.; Q-1
Castro, M.O.; M-10, M-16
Castro, M.S.; C-40, C-7, K-7, K-8, K-9, N-72, S-13, S-20, S-22, S-43, S-44
Castro, NP; B-36
Castro, P. F.; L-124, L-131
Castro, R.S.; C-30
Castro-Borges, W.; G-64
Castro-Faria-Neto, H.C.; C-26
Castro-Santos J.; L-41
Catani, C. F.; F-73
Catunda, M.G.; E-62
CATUNDA, P. H. A.; E-46
Cavada, B. S.; R-49, R-56
Cavalcante, J.J.V.; E-20, SP.22-4
Cavalcante, K.L.; D-45, S-51
Cavalcanti, C.L.B.; C-24, H-98
Cavalcanti, M.S.M.; C-24, N-99, SP.02-3, U-13
Cavalher, F.P.; L-17
CAVALLIERI, A.P.; G-41
Cavarsan, C.F.; S-1
Cazarolli, L.H.; C-41
Cé, N.; R-51
Cella, N.; G-24
Cemim B. C.; L-130
Centeno, D.; E-84
Ceolato J.; L-121
Cerântola, N.C.M.; L-70
Cereda,C.M.S.; H-9
Cereser, KMM; R-3
Cereser, V.H.; R-52
Ceripes, V.F.; H-58, H-59
Cerqueira, M.D.; M-61
Cerqueira, V.; M-22
Cervini, M.; H-103, H-114, H-13
César Maia; E-58
Cesar Mateo; H-69
Cesquini, M.; I-19, I-21
Cestari, T.M.; B-4
Cezari, M.H.S.; L-30, L-80
Chagas, C. M. A.; T-42
Chagas, J.R.; H-40
Chaim, O.M.; C-47
Chaimovich, H.; Q-11, Q-6
Chalegre, K.D.M.; D-3
Chambergo, F.S.; A-27, G-24, G-29, J-8
Chammas, R.; N-152, SP.05-3
Chan, S.S.; T-3
Chapeaurouge, A.; F-23, F-55, G-77, U-26
Chaud-Netto, J.; D-26
Chavante, S.F.; M-25, M-55, M-92, M-94, M-99, SP.06-2
Chaves, D.F.S.; F-15
CHAVES, D.G.; U-9
Chaves, EA; T-7
Chaves, F.M.S.; S-17
Chaves, M.E.C.; H-33
Chaves-Alves, V.M.; E-104
Chavez-Olortegui, C.D.; E-86
Chehab, C.; SP.21-2
CHIARI,F.M.; K-5
Chiarini, L.B.; B-2, SP.21-3
Chimelli, L.; R-45
Ching, A. T. C.; B-11
Chino, META; G-18
Chioato, L.; N-34
Chiodo V; B-2, SP.21-3
Cho, A.; SP.12-3
Chubatsu, L.S.; F-45, F-48, F-52, F-70, F-76, SP.05-2
Chudzinski-Tavassi, A.M.; B-19, B-45, D-1, L-112, L-37, N-66, P-28, SP.02-2
Ciancaglini, P.; H-34, H-54, L-2, L-31, N-6, T-83
Cianciarullo, A.M.; H-11
Cicarelli, R.M.B.; G-56, G-73
Cidade, D.; N-110
Cilli, E.M.; N-154, N-18, S-11
Cinelli, L.P.; M-16
Cintra, A.C.O.; N-127
Ciprandi, A.; D-84
Cipriani, T.R.; M-19, M-31, M-45, M-52, M-72
Cirimbelli T. M.; T-81
Citadini, A.P.; Q-2
Claudino, C.S.; T-27
COELHO, A. S. G.; E-103, SP.09-3
Coelho, A.M.A.; F-19, F-74, S-23, SP.05-4
Coelho, B.V; M-100
Coelho, D.M.; C-19, R-43
Coelho, F.E.M.R.F.; N-110
Coelho, J.C.; B-46, C-34, C-42
Coelho, L.C.B.B.; C-12, C-18, E-127, H-1, H-27, H-28, H-3, H-30, H-31, H-32, H-35, H-36, H-4, H-63, H-98, I-9, N-38, N-42, N-43, N-45, N-57, N-62, N-8, N-95, SP.19-2
Coelho, M.B.; E-21
Coelho, M.G.P.; I-16, I-27, P-2
Coelho-Rocha, B; N-178
Cognato, G.P.; R-52
Cogueto, C.V.; T-55
Coitinho, J.B.; L-105, U-11
Colepicolo, P.; E-112, E-19, L-20, T-1, T-14, T-16, T-32, T-35, T-37, T-4, T-65, T-78, T-80, U-25
Coletta, R.D.; C-46
Coletta-Fillho, H. D.; F-49, SP.09-1
Colnago, L.A.; F-58
Colodette, J.; SP.09-3
Colodi, F. G.; M-83
Cologni P. S.; T-81
Colombo, A.L.; O-5
Colombo, M.F.; L-127
COLPO, E.; T-34
Cominetti, M.R.; N-22
Commodoro, A.G.; C-45
Conceição, C.M.; H-97
Conceição, K.; S-52
Conceição, M M; J-8
Conceição, T.M.; D-28, F-4
Conte, F.F.; G-14, G-19, G-49
Conterato, G. M. M.; L-134, T-76
Contessotto, M.G.G.; C-55
Corbett, A. H.; G-13
Corbetti, C.E.; L-40
Corbi, P.P.; P-30
Cordeiro Carlos, E.R.; N-112
Cordeiro SM; A-14
Cordeiro, A.T.; L-54
Cordeiro, L.M.C.; M-56
Cordeiro, M.N.; N-132
Cordeiro, M.T.; SP.02-3
CORDEIRO, SL; M-7
Cordeiro, Y.M.L.; N-3
Cordenunsi, BR; E-107
Cordioli, M.L.A.; I-11
Córdula, C.R.; M-6
Coriolano,M.C.; C-12
Cornelio, A.R.; R-50
Corradi da Silva, M.L.; H-76, M-40, M-69
Correa Netto, C.; N-58
Correa Soares, J.B.L.; G-43
Correa, A.G; SP.08-4
Corrêa, D.H.A.; P-7
Corrêa, F.; N-21
Corrêa, G.C.; N-59
Corrêa,C.L.; H-58, H-59
Correia, M.T.S.; C-12, H-1, H-27, H-28, H-3, H-30, H-35, H-36, H-98, N-42, N-43, N-45, N-57, N-8, SP.19-2
Corte, C.L.D; T-31
Cortes, C. L. G.; Q-6
Cortes, V.F.; A-39
Cortines, J.R.; N-179
Cosentino, D.G.; L-126
Costa Oliveira, M.S.; E-58
Costa, A. M.; L-87
Costa, C.A.S; U-27
Costa, D.A.; G-69, G-71, P-15
Costa, D.C.F.; A-32, E-66
Costa, E. S.; A-28, A-29
Costa, F. C.; G-36
Costa, F. T.; E-50, E-61
Costa, F.F. (H2); B-12, C-35, R-54
Costa, G.; E-40
Costa, G.R.T.; K-8
Costa, G.T.; S-35, S-46
Costa, H.; N-109
Costa, I.A.; D-70
Costa, J.H.; A-30, A-40, E-28, E-99
Costa, L. F.; V-3
Costa, L.S.; M-7
Costa, L.T.; F-20
Costa, M. F.; E-64, E-65
Costa, M.A; C-2
Costa, M.C.; J-13
Costa, M.D.M.; R-54
Costa, M.F.D.; P-22, R-12, R-60
COSTA, M.S.S.P.; M-7
Costa, N.M.B.; U-17
Costa, P.C; E-46, E-69
Costa, R. G.; N-139
Costa, S.L.; P-22, R-12, R-13, R-20, R-60
Costa, S; C-32
Costa, T. M.; N-81
Costa, T. R.; K-11, K-18
Costa, T.M.B.; I-1
Costa, V.B. (H2); D-72
Costa,I. D.; E-24
Costa-Campos L.; T-81
Costa-Filho, A.J.; Q-2
Costa-Lotufo, L.V; N-124
Costa-Neto, C.M.; B-31, N-136, N-140, P-30, S-9, U-27
Costa-Silva, B.; J-11, J-13
Cotrin, S.S.; D-10, L-80
Coulson-Thomas, V.J.; M-32
Coulson-Thomas, Y.M.; R-2
Courdavault, S.; CF.21
Coutinho, E.L.; B-37, B-39
Coutinho, K.S.; A-25
Coutinho, M.V.; E-64
Coutinho-Netto, J.; JT.18-5

3-Indice_autores.pmd 94 6/6/2005, 12:38

Covas, D.T.; J-16, N-152, SP.05-3
Covizzi, L.G.; H-76, H-95
Craft, J.M.; CF.04
Craievich, A.; JT.18-2
Creczynski-Pasa, T.B.; P-17, Q-5, T-36
Crespo Neto, H.A.; E-120
Criminácio, C.R; T-41
Crisóstomo, C.V.; E-101
Cristiana Schumacher; R-19, R-29
Cristifani, M.; SP.09-1
Crouzy, S.; SP.17-4
Crovella, S.; SP.02-3
Crovella, S; H-120, H-66, U-13
Crusca, E.; N-18, S-11
Cruz de Souza, A.R.; M-22
Cruz, A.K.; G-17, SP.08-2
Cruz, A.K.M.; C-33, M-94
Cruz, C. C. M.; E-64
Cruz, F.P.; E-36
Cruz, G.A.D.R.; U-8
Cruz, L.M.; F-17, F-38, F-80, M-11, SP.05-2
Cruz, W.M.S.; C-5
Cruzeiro-Silva, C.; N-107, N-154
Cruz-Höfling, M. A.; S-7
Cruz-Silva, I.; L-132, L-72, L-76
Csordas,F.C.L; H-14
Cuccovia, I.M.; Q-11, Q-4, Q-6
Cuervo P; G-72, N-176
Cuillel, M.; A-41, SP.17-4
Cukiert, A.; R-45
Cunha e Silva, N.L.; D-18
Cunha, P.C.; E-51
Cunha, PRBB; D-28
Cunha, R.B.; N-20
Cunha-Neto, E.; N-40
Cupolillo E.; G-72, N-176
Curti, C.; G-10, O-2, T-24, T-9
Cussiol, J.R.R.; T-13, T-52
Cuvero, J.H.; S-37
Czekster, C.M.; F-29

D

D´Agostino FG; S-31, S-32
D´Ávila, L.C.; L-67
D´Muniz, H.; SP.08-4
Da Costa, F.B.; H-24
da Cunha JPC; B-61
da Cunha, M.; E-114, E-27, E-47, E-5, E-6, E-81
da Poian, A.T.; D-28, F-18, F-4, F-40, F-41, F-62, I-13, I-3, K-17, N-156, N-169, S-18
da Silva Pranchevicius, M.C.; B-35
da Silva Vaz Jr., I.; D-14, D-15, D-48, D-65, D-7, D-71, O-7
da Silva, A.C.R.; CF.03
da Silva, A.M. (H1); B-14, B-27, N-101
da Silva, A.W.S.; N-36
da Silva, D.G.C.; I-1
Da Silva, E.G.; C-20, T-33
da Silva, F. L. B.; SP.07-3
da Silva, F.R.; N-129, N-80
da Silva, M.A.; I-28
da Silva, M.C.M.; D-45, E-64, E-65, S-51
da Silva, M.E.F.; J-17, L-106
da Silva, R.; F-22, H-71
da Silva, V.L. ou Silva, V.L.; L-48
da Silva, W.S.; R-48
da Silveira, R. B.; C-47, L-115, L-79
Dabdou, M. J.; H-34
Daffre, S.; S-1, S-33, S-35, S-40, S-46, S-50, S-52, S-53
Dafré, A.L.; T-19, T-48
Daga, C.J.; E-100
Daghastanli, K.R.P.; H-54
Dagnino, D.; E-39, F-54, I-18
Dal-Bianco, M.L.C.; E-113, E-63
Dal-Cim, T.; R-21
Dalcin, K.B.; R-19, R-29
Dalla Picola, I.P.; S-16
D'Almeida, V.; C-10, C-8, I-26, T-72
Dal-Pizzol, F.; C-20, D-83, T-33
Dalvi, L.T.; K-1
Dalzy DV; S-45
Damasceno, B.L.; D-55
Damasceno, N.R.T.; T-23, T-42, T-82
Damasceno-Sá, J.C.; D-9
DaMatta, R.A; D-67, E-6, O-8
Damico, D.C.S.; S-7
D'Andrea, M.G.; L-44
Daniel Lemos; L-131
Dansa-Petretski, M.A.; D-76, D-77, N-143
Dantas Silva, C.; K-24
Dantas, A.S.; T-57
Dantas, V.C.R.; I-9
Dario, M.G.; H-60, H-61, I-11
D'astolfo, D.; G-15
D'Avila, C.M.; G-30, G-44
D'Avila, J.C.P.; A-34, D-14
De Aguiar, M.L.P.; R-28
De Alencastro R.B.; SP.20-4
de Almeida, T.F.; R-54
de Amorim, H.L.N.; L-68, N-151, N-93, V-4, V-7
de Andrade, D.V.G.; R-20
de Araujo, A.P.F; N-114, N-145, N-78
de Araujo, P.S.; I-28
de Azevedo Jr., W.F.; N-111, N-121, N-17, N-172, N-85, S-5, S-54, SP.20-3, V-15
de Azevedo, M.B.M.; P-16, P-24, P-7
de Bem, A.F.; T-34, T-39, T-40
De Caroli, F.P.; E-78
De Carvalho, C.A.A; P-16, P-24, P-7
De Deus, M.F.; F-8
De Felice, F.G.; N-134, R-24, R-27, R-48
de Freitas, M.C.V.; T-3
de Jesus, M.B.; P-4
de Lima Sant, M.; L-122
de Lima, M.E. (H1); N-132
de Lima, P.R.M.; G-1
de Maria, C.A.B.; E-91
de Mattos, D.A.; M-84
de Meis, E.; SP.10-1
de Meis, L.; A-11, A-22, A-23, A-43, A-6, SP.13-4
de Mello, F.G.; R-9
de Mello, G.C.; D-38, E-12
de Melo Neto, O.P.; D-3
de Melo, C.P.; N-8
De Melo, R. R.; C-12
de Moraes, E.; J-12
de Nucci, G.; V-10
de Oliveira Santos, E; F-19
de Oliveira, A.H.C.; G-17
de Oliveira, C.L.P.; F-73, N-10, N-123
de Oliveira, H.M.; K-24
De Oliveira, J.R.; L-67
de Oliveira, L.S; E-46, E-69
de Oliveira, M.G.; J-19
de Oliveira, M.V.V.; E-68
de Paula, E.; H-9, J-17, L-106, P-4
de Paula, H.; T-49, T-50, T-66
de Paula, J. G.; A-1, A-37
de Paula, R.; G-32, G-59
de Paula, V.S.; N-67
de Paulo, R.F.; N-33
de Pereira-Netto, A.B.; A-2, A-48
de Queiroz, J.H.; L-105
de Rezende, S.T.; D-47, E-1, L-105, L-117, L-15, L-18, L-28, L-42, U-8
de Simone, S. G.; G-18, L-13, L-133, L-50, L-62, N-58, N-7, SP.20-4
de Souza Filho, G.A.; E-128, E-129, E-130, E-2, E-3, E-68, E-70, F-9
De Souza MFW; P-15
de Souza, I. A.; E-12, E-21
de Souza, L.L.; N-140
de Souza, M.V.; G-50
de Souza, W.; D-18, G-12, G-77
De Toni, K.L.G.; E-105
de Vries E; G-62
Deccache, P.M.S.; C-54
Decker, H.; R-21, R-5
DEDECEK, A. S.; F-70
Dedemo, G.C.; E-96
Degasperi, G.R.; A-35, C-38, C-4, SP.17-2
Degrave, W.M.; V-10
Degrève, L.; N-4, N-5
Dekker, R.F.H.; H-76, H-95, M-40, M-69
Del Sarto, R.P.; E-64, E-65
Delgobo, C.L.; M-58, M-65
Della Casa, M.S.; N-29
Dellalibera, E.; C-28
Dellamora-Ortiz, G.M.; H-69
Dellias, J.M.M.; M-17
Demarchi, A.C.C.O; B-4, J-7
DeMarco, R.; G-23, G-34, G-42, L-43
Demarco, R; N-126
Demasi, A.P.D.; T-13
Demasi, M.; L-17
Demasi, M.A.A.; B-24, B-42
Deon, M.; C-19
DE-PAOLI HC; E-126, E-38, E-67
Deperthes, D.; H-40
Devienne, K.F.; T-24, T-9
Di Mascio, P.; C-44, CF.19, N-141, N-89, P-9, T-17, T-18, T-20, T-21, T-22, T-45, T-53, T-61, T-70
Di Mauro, S. M. Z.; E-7, E-96
Di Vaio, M.A.; P-26
Dias S.C.; H-85
Dias, C. F. B; T-29
Dias, B.R.; M-68
Dias, C.C.A.; F-64, F-72
Dias, D.; D-79
Dias, FA; A-5, G-30, G-44
Dias, G.M.; U-26
Dias, J.M.R.; E-128
Dias, L; P-26
Dias, M.H.S.; J-1
Dias, R.D.; L-26, L-52, L-82
Dias, S.M.G.; N-157, N-49, N-88, SP.15-3
Dias, W.B.; N-31, N-44
Dias, W.O.; H-15, H-68, H-93
Dias-Neto, E.; SP.12-1
Diaz BL; B-1
Díaz, G.L.E.; O-3
Dick, T.; L-130
Dietrich, C.P.; C-46, CF.07, L-115, L-79, M-100, M-27, M-59, M-6, M-80, M-82, M-87, M-88, M-98, M-99, SP.06-2
Dietrich, S.M.C.; SP.19-3
Dimas, LF; M-41
Diniz, J.; U-21
Diniz, M.R.V.; H-41
Diniz, R.H.S.; H-107
Dinslaken, D.F.; T-48
Discola, K. F.; N-26
Diz Filho, E.B.S.; N-163, S-49
Diz, M.S.S.; E-8
Dizengremel, P.; A-30
do Rosário, M.M.T.; M-74
Dobroff, A.S.; S-2
Docampo, R.; D-56
Docena, C.; F-59
DOCKHORN, A.; U-23
Dolinski, C.; B-60

Índice de Autores

Dombroski, T.C.D.; N-56
Dominato, J.A.A.; M-82
Domingos, N.; L-99
Domingues, AFS; T-72
Domingues, M. A. C.; J-9
Domit, R.; M-49
Domitrovic, T.; G-70
Domont, G.B.; G-72, N-105, N-110, N-121, N-176, N-28, SP.05-4, V-10
Donzele, J.L.; U-16
Dória, F.G.; I-1
Dorighello GG; A-35, C-11, C-22
Dornelas, M.C.; E-38
Dornelles, P. K. B.; C-48, R-51
Dorta, D.J.; T-9
dos Reis-Nagashima, T.M.; P-26
Dossin, FM; B-61
Douki, T.; CF.21
Dourado, F.S.; N-159, N-92, S-8
Dourado, L.; SP.13-4
Dresch, R. R.; E-72
Dreyfuss, J.L.; C-46, M-82
Duarte, G.C.; N-98
Duarte, M.E.R.; H-79, M-38, M-76, M-78, M-83, M-85, M-91, M-93, M-95
Duarte; C-13
Duarte-Campos, K. K.; T-66
Ducati, R.G.; F-6
Ducatti, D.R.B.; M-76
Dudenhoeffer, A.C.; J-2
Dumont, A.F.; L-23
Duran, CCG; E-93
Durán, N.; P-13, P-16, P-24, P-7, T-2
Dutra, A. A. A.; B-49
Dutra, D.L.S. (H1); L-63, N-135, N-150, N-73, S-18, S-23, S-42
Dutra, P.M.L.; G-33, G-60, G-61, G-65
Dutra, R.F. ou Dutra, R.A.F.; H-42, H-57, H-64, O-6
Dutra-Filho, C.S.; C-48, R-14, R-19, R-22, R-23, R-29, R-4, R-41, R-42, R-43, R-44, R-50
Dyszy, F.H.; L-113

E

E. O. Pereira, E.O.; F-49
Echevarria, A.; A-42, P-23
Efimov, V. P.; G-4
Egidio, C.M.; B-20
Egito, E. S. T.; H-18, H-21
Einicker-Lamas, M.; A-41, G-12
Eira, C.C.S.; M-21
El Jundi, T. A.; B-14
El-Bachá, R.S.; P-22, R-12, R-13, R-20, R-60
El-Bacha, T.; I-13, I-3
El-Dorry, H.; A-27, G-24, G-28, G-29, J-8
Eleutherio, E.C.A.; G-5, T-38, T-44, T-47, T-5, T-51, T-59
Elias, C.G.R.; G-30
Eliaschewitz, F.G.; B-42
Elifio, S.L.; E-55, S-29, S-30
Eloy, Y.R.G.; E-73
El-Sayed, N.M.; CF.10
Ely, F.; F-31, L-32
Emanuelli, T. (H1); L-134, T-76, U-21
Entringer, P.F.; D-76
Erika Araki Okuda; B-10
ERNA BACH; L-33
Ernandes, J.R.; G-63
Erthal Jr, M.; D-72, D-73
Escobar, V.; SP.04-3
Espindola, F.S.; P-1
Espíndola, L.S.; P-1
Espreafico, E.M.; B-35
Esquisatto, M.A.M.; U-15
Estevão-Costa, M.I.; B-58, N-178
Esteves, A. J.; L-53
Esteves, M.I.; H-68
Estrela, A.B.; L-121
Euler J. M. Nascimento; K-6
Evangelista, E.A.; G-57, G-58
Evangelista, J.P.; L-70
Evaristo, J.A.M.; F-23, G-77

F

Faber-Barata, J.; N-2
Fabiane Cancado; L-11
Fábio Cesar Gozzo; B-53, F-60, F-67, N-148
Fabio Lin; L-59
Fabíola Branco Filippin; H-6
Fabres, A.; D-14
Fabrin-Neto, J.B.; P-18
Faça, S.R.P.; SP.05-3
Faça, V.M.; SP.05-3
Façanha, A.R.; A-14, A-15, A-25, D-14, D-7, E-121, E-60, E-62
Faccioli, L.H.; T-68
Fachel, A.A.; B-23, C-34
Fachinetto, R.; R-59, T-62
Facincani, A.P.; F-60, F-67
Facundo, H.T.F.; A-1, A-37
Fadel, V.; S-54
Fadel-Picheth, C.M.T.; F-17
Fagundes, F.H.R.; N-163, S-49
Fagundes, M.R.; G-45
Fajardo, F.D.; N-44
Falcão, V.R.; E-19
Falco, M.C.; E-17
Faleiros,R.O.; E-76
Falkoski, D.L.; L-28, L-42
Fantappie, M.R.; B-47, BJC-3, D-23
Faoro, H.; F-70
Farache, J; F-20, F-32
Farah, C.S.; F-14, F-59, F-65, F-69, N-21, N-53, SP.11-3
Faria, E.C.; C-16, C-50
Faria, F. (H1); B-19, B-45, D-1
Faria, L.C.A.N.; A-14
Faria, P.C.S.; M-78
Faria, R.O.; H-118, H-62
Farias, E.O.K.; M-43, M-47
Farias, L.R.; E-53, N-75
Farias, S.E.; D-65
Farinon, M.; R-59
Farnesi, L. C. F.; D-21
Favaro, E. C.; E-102
Fávaro, R. D.; E-11
Fázio, M.A.; S-1, S-35, S-40, S-46
Fazollo, A.; D-54
Feijó, D.F.; O-10
Feijo, J.A.; A-14
Feitosa OA; N-121
Feitosa, G.; L-90
Feksa, L.R.; C-48
FELICIANO, P. R.; L-54
Felicori L.F.; E-86
Felipe, K.B.; T-71
Felipe, M.S.S.; S-17, T-57
Felipes J; D-66, D-69
Felippes, F.F.; E-75
Felisbino, C.S.; R-16
Félix S.P.; O-8
Felix, C.F.; N-115
Felix, J.M.; E-10, E-130
Felix, RS; B-5
Félix, V. S.; M-15
Feoli, A.M.; R-36
Fernades, V.C.; H-43, H-44
Fernandes de Melo, D.; A-30, A-40, A-45, A-49, E-28, E-58, E-99, O-10
Fernandes, A. S.; T-11
Fernandes, A.M.A.P.; R-32
Fernandes, B.L.; C-45
Fernandes, C.F.; E-73
Fernandes, D.; L-60
Fernandes, F.F.; H-58, H-59
Fernandes, G. S.; E-23
Fernandes, J. B.; L-35, SP.08-4
Fernandes, K. F.; H-101, H-78, H-89, H-96, L-109
Fernandes, K.F.; O-6
Fernandes, K.V.S.; D-67, E-114, E-51, E-6, E-80, E-81, E-82, E-87, E-88, E-9, K-10
Fernandes, L; L-39
Fernandes, M.J.; C-5
Fernandes, M.P.; C-12
Fernandes, O.; G-39, G-72, N-176
Fernandes, P.M.B.; E-27, G-66, G-67, G-70
Fernandes, P.N.; T-51
Fernandes, R.S.; C-23
Fernandez, M.A.; B-51, D-44, D-66, D-69, F-30
Fernando A. Bozza; A-34
Fernando López-Gallego; H-69
Ferrão-Gonzales, A.D.; F-2, V-11
FERRAREZI, A L; N-35
Ferraz, B.B.; Q-1
Ferraz, H.C.; H-87
Ferraz, M. S.; H-18, H-21
Ferreira B.S.; T-25
Ferreira C.E.; B-29
Ferreira P. F.; A-18
Ferreira, A.C.B.; C-32
Ferreira, A.H.P.; D-41, T-43
Ferreira, A.J.S.; A-27, G-24
Ferreira, A.R.; R-38, T-33
Ferreira, B.R.C.; I-15
Ferreira, B.S.; E-128, E-129, E-130, E-2, E-3
Ferreira, C.; D-20, D-41, D-50, D-51, D-80, D-81, L-23
Ferreira, C.A.G.; L-81
Ferreira, C.A.S.; D-65, O-7
Ferreira, C.M.O.; H-117
Ferreira, C.V.; P-4
Ferreira, E. A.; P-32
Ferreira, F.V.A.; C-21
Ferreira, G. B.; B-24, B-42
Ferreira, G.C.; C-19, JT.18-4, R-14, R-22, R-23, R-41, R-43, R-44
Ferreira, H.; N-118, N-162
Ferreira, H.B.; J-15
Ferreira, I; P-15
Ferreira, J.C.; E-46, L-110
Ferreira, J.G.; L-117
Ferreira, L.C.S.; N-55
Ferreira, M.S.; E-128, F-37, P-14, P-6
Ferreira, MAD; P-28
Ferreira, P.C.G.; E-105, E-123, E-20, E-22, E-57, F-68, SP.22-4
Ferreira, P.S.; N-84, N-9
Ferreira, P.S.S.; D-43
Ferreira, R. M; F-60, F-67
Ferreira, R.; U-16
Ferreira, S.S.; F-42
Ferreira, S.T.; N-134, N-64, R-24, R-27, R-48, R-6, R-9, S-12, S-4
Ferreira, T.F.; H-115
Ferreira, T.G.; M-32
Ferreira, T.L.; N-50
Ferreira, V.C.A.; N-119
Ferreira, V.R.F.; H-93
Ferreira, W.A.; U-9
Ferreira-Pereira, A.; A-18, A-19, A-4, A-5, D-17, G-43, SP.17-1
Ferro, E.S.; L-101, L-110
Ferro, J.A; E-96, F-60, F-67
Ferro, M.I.T.; E-96, F-60, F-67
Fertonani, I.A.P.; L-128
Festa, F.; B-14, B-27, B-29, B-41
FETT-NETO, A. G.; E-103
Fialho, E.; D-23, E-43, E-66
Fialho, L.S.; E-1, L-105

Fietto, J.L.R.; G-25, G-3, G-34, G-35, G-69, G-71, G-74, G-76
Fietto, L.G.; G-25, G-3, G-69, G-71, G-74, G-76, H-106
Figliuolo, V.R.; D-82
Figueira R.C.S.; B-25, B-32, B-62
Figueira, A.C.M.; N-157, N-49, N-88, SP.15-3
Figueira, E.L.Z.; D-45, E-64, E-65, S-51
Figueira-Mansur, J.; D-13
Figueiredo da Silva; SP.15-2
Figueiredo Neto, A.M.; C-29
Figueiredo, L.F.; K-12
Figueiredo, M.; B-49
Figueiredo, M.S.R.B.; I-25, K-12
Figueiredo, R.T.; M-67
Figueiredo, S.G.; N-132
Figueiró, S.D.; M-79
Figueredo, R.C.R.; S-17
Figueroa-Villar, J.D.; N-1
Finardi Filho, F.; D-74
Finotelli, P.V.; H-2
Fiorini, A.; B-51, D-44, F-30
Firmino KCS; A-20
Fischer, H.; JT.18-2
FL Kamitani; B-60
Fleck, R. M. M.; R-51
Floh, E. I. S.; E-33
Florentino, L. H.; E-26
Flores, M. P. A.; L-112, L-37
Flores, M.P.A.; SP.02-2
Flores, V. M. Q.; E-69, F-9
Foguel, D.; BJC-4, CF.06, G-66, N-115, N-138, N-16, N-3, N-37, N-84, N-9
Folador, P.; I-25
Follmer, C.; R-57
Folmer, V.; I-20, SP.13-3, T-30, T-46
Fonseca de Souza, A. L.; L-65
Fonseca, E. A. I.; H-76
Fonseca, F.V.; L-40
Fonseca, I.O.; F-29, H-13, H-48, H-52, P-11
Fonseca, L.M.; L-135
Fonseca, LF; M-51
Fonseca, M.M.; N-24
Fonseca, P.R.M.S.; M-69
Fonseca, R.G.; T-3
Fonseca, R.J.C.; M-66
Fonseca, T. D. B. W.; N-128
Fontana, A.C.K.; JT.18-5
Fontanari, J.C.; E-116
Fonteles, M.C.; L-40
Fontenelle, M.R. (H2); E-26
Fontes, B.; C-40, C-7, N-72
Fontes, C.F.L.; A-16, A-28, A-29, A-3, A-39, Q-1
Fontes, E.P.B.; E-104, E-108, E-109, E-113, E-118, E-26, E-30, E-31, E-32, E-56, E-63, F-42, S-36
Fontes, M.R.M.; N-74
Fontes, R.P.; E-109, E-118
Fontes, W.; C-40, C-7, K-7, K-8, K-9, N-72, S-13, S-20, S-22, S-43, S-44
Fontes,G.C; L-105
Fook; N-30, N-52
Fornaciari K. V.; E-82
Fornells, L.A.M.G.; F-16
Fortes-Dias, C.L.; B-58, H-41, N-178
Forti, F.L.; J-1
Fortunato, RS; T-7
Fossey, M.A.; L-128, U-24, U-28
Fraga, C.A.M.; P-5
Fraga, E.; F-54, I-18
Fragel-Madeira, L.; J-2
Fragoso, G.M.; I-18
França, J. B.; S-15
França, M M; G-74
França, M.B.; T-47
França, R. A.; M-38
França, S.C.; H-70
França, T.C.C.; N-1
Franceschi, M.F.S.; I-12, T-58
Franchini, K. G.; SP.03-4
Francischetti, I.M.; N-142, SP.10-4
Francischini, C.W.; E-25
Francisco, J.C.; P-19
Franco, C.R.C.; B-22, B-34, P-23
Franco, G.R.; B-47, B-58, B-59, G-15
Franco, J.J.; M-35, U-20
Franco, J.L.; T-19, T-48
Franco, O.L.; E-110, E-49, E-50, E-53, E-54, E-59, E-61, E-95, G-37, H-49, H-50, H-51, H-56, H-58, H-59, H-88, N-75, S-56
Frare, J.T.; B-50
Fratane, F.S.; P-14, P-5, P-6
Frazzon, J.; F-31, L-32, L-38
Freire de Lima L.; P-29
Freire, M.C.M.; E-29
Freire, M.G.M.; D-34, D-35, D-36, D-38, D-39, D-46, D-61, D-8, E-21, N-15
Freire, M.M.; N-107
Freire, S.M.; R-12, R-60
Freire-Filho, F. R.; E-73
Freitas Junior, J.O.; L-4
Freitas, A. S.; T-34, T-39, T-40
Freitas, A.C.; P-26
Freitas, C.F.; M-17
Freitas, D.M.; G-37
Freitas, D.R.J. (H1); D-15
Freitas, F.Z.; G-53, G-59, L-74
Freitas, K.C.S.; H-3
Freitas, M.S. (H1); C-54, S-10, S-45, S-55
Freitas, M.S. (H2); D-82, F-36, N-115, N-158, Q-3
Freitas, S.M.; N-97
Freitas, S.R.V.B.; R-60
Freitas-Astua, J.; SP.09-1
Frey, NB; R-3
Frigieri, M.C.; G-50, G-51
Frits Franssen; G-62
Fritzen, M.; B-19, L-112, L-37, SP.02-2
Friungillo, L.; P-16
Frizzo,C.; T-76
Frosoni, D. J.; N-134
Frossard M; G-12
Frozza, R.; R-30
Frugulhetti, I.C.P.P.; A-28, A-29, P-12, Q-1, V-8
Frutuoso, A.; E-6
Fujita, A; B-29
Funchal, C.; JT.18-4, R-31, R-33, R-34
Funes-Huacca, Maribel E.; F-11
Furlan, M.; T-11
Furriel, R. P. M.; A-20, L-1, L-22, L-5, L-55, L-57, L-6, L-92, N-115
Furtado, A.P.; D-49
Furtado, D.R.; B-47, D-23
Furtado, M.F.D.; B-11, N-66
Furuyama, N.; H-68

G

Gabanyi, I.; B-43
Gabilan, N.; R-16, R-8
Gabriella Machado Allegri; C-5
Gaio A.O.; D-46, D-85
Galante, P.A.F.; B-15, V-13
Galdieri, L.C.; C-8
Galdino, S. L.; P-20
Galembeck, E.; K-23, V-6
Galina, A.; A-17, A-34, D-14, I-3, R-48
galiza neto, G.C.; M-79
Galler, R.; F-37
Galvão de Botton, L.M.P; N-53, SP.11-3
Galvão, C.W.; F-76
Gama,C.C.; O-8
Gamberini, M.; H-10
Gamosa, E.A.; H-46
Gandara, A.C.P.; D-25
Gandra P. G.; T-74
Gandra, M.; M-34, M-43
Ganter, J.L.M.S.; M-49
Ganzella, M.; R-5
Garantizado, F.E.A.; A-49, E-28, E-99
Garcez, R.C.; J-4, J-9, R-10, R-49, R-58
Garcia, A. F.; N-171
Garcia, C.C.M.; T-70
Garcia, C.O.; G-31
Garcia, L.G. (H1); N-114
Garcia, L.T.; G-26
Garcia, MCC; C-55
Garcia, V.A.; E-83
Garcia, W.; N-25
Garcia-Gomes, A.S.; A-19
Garçon DP; L-22
Gardino, P.F.; K-19
Garratt, R.; E-15, N-25, N-29, N-61, SP.08-4, V-14, V-2
Garrido, S. S.; H-7, H-86
Gaspar, C.G.; M-33
Gaspar, L.P.; F-36, F-37, N-179
Gasparotto, E.P.L.; H-83
Gattãs, E.A.L.; H-73
Gava, L.M.; N-172
Gazzoni, M. T.; M-74
Genta, F.A.; D-20, D-41, D-50, D-51, D-68, D-81, L-23
Genu, V.F.; T-13, T-55
Genzini, T.; B-42
Georg, R.C.; G-21
Geraldo R.B.; R-28
Geraldo, M. V.; B-18
Gerhardt, D; R-30
Gerlach, A.; J-18
Germano, L. F.; R-27
Getz; T-54
GIACOMEL, L.D.; B-34
Gianotti, A.; E-119
Giardini, M.A.; G-14, G-19
Gidlund, M.; C-29, C-50, T-23, T-82
Giese, E.C.; H-76, H-95
Gifoni, J.M.; E-97
Giglio, J.R.; H-43, H-44, L-25
Gilioli, R.; C-17
Gimba, E.R.P.; B-1
Gimenes, F.; F-30
GIORDANO, R. L. C.; L-88
Giordano, R.; N-116
Giordano-Neto B.; L-132
Girão, V.C.C.; M-15
Girard, M.; N-44
Giugliani, R.; B-46, C-19, C-34, C-42, JT.18-4, R-37, R-39
Giuli, J.S.A.; E-125, N-143
Giuseppe, P. O.; N-162
Glauser, B.F.; M-36
Glavina, A.B.; T-35
Gobbi, N.; D-26
Gobbo-Neto, L.; JT.18-5
Godoy, E.S.M.; U-19
Godoy, L.M.F.; SP.05-3
Góes, A. M.; SP.23-2
Góes, J.C.; M-79
Goffeau, A.; A-18, A-19, A-4
Goldberg, A.C.R.K.; B-42, J-6
Goldman, G.H.; A-9, E-124, E-126, E-37, E-38, E-67, E-76, G-4, G-45, G-9
Goldman, M.H.S.; E-124, E-126, E-37, E-38, E-67, E-76, G-4, G-45, G-9
Gombert, A.K.; G-24
Gomes da Silva, L.; N-143
Gomes Garcia, Diogo; C-14, C-15
Gomes, A.L.C.; N-145
Gomes, A.M.O.; F-35, N-79
Gomes, D.S. (H1); G-5

Índice de Autores

Gomes, E.; F-22, H-71
Gomes, E.P.; H-65
Gomes, F.M.; D-56
Gomes, F.S.; H-4, H-63, N-95
Gomes, G.G. (H2); N-152
Gomes, K.N.; G-25
Gomes, L. S. C.; D-18
Gomes, L.; M-4, U-15
Gomes, L.F.; T-73
Gomes, M.A.B.; A-47
Gomes, M.C.; K-10
Gomes, M.D.; B-7
Gomes, M.P.B.; N-3
Gomes, M.T.R.; E-86
Gomes, O.F.; C-44
Gomes, Quintana, E.; P-29
Gomes, R.A.S.; L-136, L-73
Gomes, S. A. O.; L-65
Gomes, S.L.; F-3, G-21, G-69
Gomes, V.M.; E-3, E-48, E-5, E-8
Gomes,L.R.; B-41
Gomes-da-Silva, P. V.; F-57
Gomes-Filho, J.S.; H-45
Gomes Júnior, J. E.; L-114, L-34
Gomes-Neto, F; D-82, N-158
Gomez, ANA; D-80
Gomez, M.V.; SP.23-4
Gómez, S.L.; C-29
Gomide, J. L.; SP.09-3
Gomiero L; S-34
Gonçalves DS; F-8
Gonçalves K.A.; F-28, F-33
Gonçalves, A.G. (H1); M-91, M-93
Gonçalves, C.A.; R-17, R-3, R-35, R-36, R-37, R-38, R-39, R-53
Gonçalves, C.F.; C-14, C-15
Gonçalves, D. B.; G-78, G-79
Gonçalves, D. F. C.; N-80
Gonçalves, D.; R-53
Gonçalves, L.M.; Q-11
Gonçalves, R L S.; A-17
Gonçalves, R.B.; F-13, F-37, N-82
Gonçalves, R.R.; L-5
Gondim, F. C; F-9
Gondim, K.C.; D-2, D-42, D-52, D-76
Gongora R; G-72
Gonzales, F.A. (H1); G-68, S-50
Gorin, P.A.J.; G-27, M-1, M-11, M-19, M-20, M-28, M-31, M-42, M-45, M-46, M-52, M-56, M-58, M-65, M-70, M-72, M-81, M-9
Gorrão, S.S.; B-55, L-100
Goto, L.S.; N-177
Gottfried, C.; J-18, R-31, R-33, R-35, R-36, R-53
Gottschalk, L.M.F.; H-119
Goulart, A. J.; L-88
Goulart, C.L.; F-32, F-7
Gouvêa dos Santos, R.; S-48, U-12
Gouvêa, I.E.; L-30
Gouvea, M.N.; U-18
Gouveia, F.S.; D-44
Gozzo, A.J.; L-132, L-72, L-76
Graça-Souza, A.V.; A-34, N-31
Gracher, A.H.P.; M-70
Gracia, J. E.; H-95
Gralle, M.; N-64
Graminha, M.A.S.; SP.08-2
Granato, T.M.; A-46
Granato,D.; G-68
Grando, V.; R-22, R-23, R-4
Grangeiro, M.S.; R-20
Granjeiro, J.M.; B-4, C-13, J-17, J-3, J-7, L-106, L-46, L-71
GRATTAPAGLIA, D.; SP.09-3
Gravi, E. T.; P-25
Gravina, F. S.; R-17
Greene, G.L.; SP.15-1
Greene, L.J.; F-22, G-17, G-46, J-16, N-152, SP.05-3
Gregio, A.P.B.; G-13
Gremski, L.H.; B-22, B-34
Gremski, W.; C-47, L-79
Grillo, L.A.M.; D-42
Grimaldi Jr G.; G-72
Grindley, T. B.; M-91
Grippo, M.; C-17, F-78
Gris, E. F.; P-32
Grizolli, W. M.; L-102
Grossi de Sá, M.; E-131
Grossi De Sa, M.F.; D-45, D-74, E-131, E-53, E-54, E-64, E-65, S-51, SP.04-4
Guaragna, R.M.; C-32, I-12, J-18, L-119, T-58
Guaratini, T.; T-14, T-32, T-4
Guedes, HLM; L-13, L-50, N-58
Guedes, PMM; G-58
Guedes, R.; C-53
Guedes, R.N.C.; D-47, D-53, D-54
Guércio, R.P.; N-170
Guerra, A.C.R.; K-5
Guerra, C.M.P.; G-8, M-25, M-57
Guerra, L.O.; D-20
Guerra, M.P.; A-48
Guerra, R.J.A.; G-61
Guerra-Sá, R.; B-28, B-56, G-57, G-58, G-64, G-75
Guerreiro, J. R.; B-8
Guerreiro, L. H.; N-64
Guethe, L.M.; R-47
Guido RV; N-13, SP.08-4
Guidugli,M.C.; E-76
Guillain, F.; A-41, SP.17-4
Guimarães, B. G.; N-162, N-26, N-53, SP.11-3, SP.15-2, T-13
Guimarães, B. L. S.; E-113
Guimarães, E.L.M.; I-12, T-58
Guimarães, F. V. A.; A-40
Guimarães, J.A.; L-60, L-68, M-18, M-44, N-151, N-19, N-93, V-4, V-7
Guimarães, L.H.S.; L-97
Guimarães, L.L.; E-78, M-89, SP.23-4
Guimarães, R.L.; H-120, H-66
Guimarães, V.M.; D-47, E-1, L-105, L-117, L-15, L-18, L-28, L-42, U-8
Guimarães-Gomes, V.; N-150
Guimarães-Ramos, P.; N-135, N-73
Guisán, J.M.; H-69
Guizzo, R.; JT.18-5
Guma, F.C.R.; I-12, J-14, J-18, L-119, M-37, T-58
Gurgueira, S.A.; T-26
Gusmao, N.B.; H-4, H-63
Gustavo Beolchi; T-3
Gutierrez, A.; L-29, L-91
Gutierrez, J.M.; N-113, N-160, N-163
Guzzo, C.R.; N-53, SP.11-3

H

Haddad, R; F-53
Haeser, A; C-19
Hahn, M.; L-134, T-76, T-76
Haido, R.M.T.; M-67
Hakime-Silva, R.A.; T-11
Hakomori, S.I.; L-3, M-5
Halila-Reusing, G. C.; A-42
Hall, N.; CF.10
Hallack,L.F; F-34
Ham HJ; G-62
Hamaguchi, A.; N-167, N-87, N-98
Handa, K; L-3, M-5
Hangai, NS; G-57
Hansen, D.; E-13, E-15
Hansen, E.; E-35, E-47, H-45, H-46
Haouz, A.; SP.15-2
Harami, T.; H-104
Harreman, M.T.; G-13
Hasenfratz-Sauder, M.P.; A-30
Hasselmann-Zielinski, F.; S-29, S-30
Hasson-Voloch, A.; M-17
Hauk, P.; N-11
Haun, M. (H2); P-13, P-15, P-16, P-24, P-7, T-2
Hauswirth, W.; B-2, SP.21-3
Hayakawa, J.; SP.12-3
Hayashi, M.A.F.; B-55, B-8, N-65
Hayashi, P.; D-26
Hayasshi; D-17
Hebeler-Barbosa F; U-1
Hebling J.; U-27
Hebling, M.J.A.; L-35
Heckert, B. T.; R-49, R-56
Heckl, W.M.; F-20
Heidrich, D.N.; K-12
Heinrich, T. A.; P-31
Heise, N.; F-34, P-29
Helal-Neto, E.; S-55
Hemerly, A.S.; E-105, E-123, E-20, E-22, N-105, SP.22-4
Hemerly, J.P.; L-100
Henn, C.; L-85, L-86
Henrique-Silva, F.; E-119, H-103, H-114, H-13, SP.04-2
Herberts, R.A.; H-109, H-60, H-61
Herdeiro, R.S.; T-44
Hermes, C. Z.; T-61
Hermes-Lima, M.; K-1, K-6
Hermida SAS; C-44
Herrerias,T.; A-47
Hess, P. L.; S-30
Hial, V.; L-136, L-73
Higa, EM; E-93
Higa, L.M.; F-62, S-18
Hilário, E.; N-39
Hirata, I.Y.; L-9
Hiyane, M.I.; E-15
Ho, P.L.; B-11, B-3, B-38, B-45, D-1, H-11, H-12, H-16, H-20, H-8, N-11, N-135
Hoffmann, M.E.; J-19
Hohl, R.; K-2, K-22, K-3
Holanda, M.L.; M-73
Holandino, C.Q.; M-51
Hollatz, C.; H-109
Holub, O.; S-12
Homem de Bittencout Jr., P.I.; H-100
Homsi-Brandeburgo, M.I.; N-104, N-167, N-87, N-98
Honda, N.K.; H-21
Honorato, C.T.M; C-40, N-72
Honorio, K. M.; V-14
Honorio, K.M.; V-2
Horie, D.; L-89
Horiuchi O. S. R.; F-43
Horn, A.P.; R-30
Horn, F.; F-77
HORST, H.; I-25
Horta, A.C.G.; N-112
Horta, B.B.; T-12
Horton, D.S.P.Q.; H-68
Houzel, J.-C.; R-27
Hu, W.; CF.04
Hurtado, C.R.; H-34
Hyslop, S.; L-47, O-1

I

Iacomini, M.; G-27, H-25, M-1, M-11, M-19, M-20, M-28, M-31, M-42, M-45, M-46, M-52, M-56, M-58, M-65, M-70, M-72, M-8
Iannuzzi, M.I.L; H-75
Ierardi, D.F.; B-12, C-35
Ikegami, C.M.; N-23
Imamura , S.; D-48

3-Indice_autores.pmd 98 6/6/2005, 12:38

Imasato, H.; H-108, N-164, U-14
Inagaki, S.Y.; H-83
Iourtov, D.; H-68, H-85
Irazoqui, F.; E-72
Irsigler, A.S.T.; E-30, E-42
Iscola K.; T-13
Ishikawa, H.C.F.; B-35
Iwai, L.K.; N-40
Izeli, N.L.; M-40
Izidoro, L.F.M.; N-167
Izidoro, M.A.; L-90
Izumi, C.; J-16

J

Jablonka, W.; I-14, N-125
Jacinto, T.; E-35, E-44, E-47, E-6, F-54, H-46, I-18
Jacques, N.O.; C-43
Jacques-Silva, M.C.; JT.18-4, R-31, R-33
Jamur, M.C.; J-16
Jancar, S.; SP.21-2
Janku Cabral, F.; B-28, G-75
Jaques, E. C. P.; N-99
Jardim, B. C.; E-35, E-47
Jardim, D.P.; S-17
Jared, C.; S-52
Jarrouge, T. R.; M-80, M-87
Jasiulionis, M.G.; E-106
JEREMIAS,TS; J-21
Jeronimo R.A.S.; H-47, L-48, L-61
Jeronimo, S.M.B.; M-30, SP.06-2
Jerusa A. Q. A. Faria; E-108
Jesse, C.R.; P-27
Jesus, J.B.; N-176
Jó, T.A.; M-96
Joanitti, G.A.; N-97
Joazeiro, P.P.; L-40
Job, A.E.; M-69
Johnson, J.E.; N-79
Jolivet, Y.; A-30
Jonsson, C.M.; L-99
Jorge, F.A.; M-89
Jorge, J.A.; L-104, L-55, L-74, L-92, L-97, N-115
Jorge, R.A.; T-6
Jorge, R.C.; M-59
Jose, A. M.; V-16
José, I.C.; E-1, E-41, L-28
Jouvensal, L.; S-40
Jubilut, G.N.; S-39
Juca, M.B.; L-102
Júdice, W.A.S.; L-90
Juliano, L.; L-100, L-101, L-136, L-14, L-24, L-30, L-63, L-7, L-8, L-80, L-90, N-180, S-4
Juliano, M.A; L-100, L-101, L-136, L-24, L-30, L-53, L-56, L-63, L-7, L-73, L-8, L-80, L-9, L-90, N-180, S-10, S-2, S-4
Junino, I. R.; H-3
Junior, V. S. R.; C-48, R-50, R-51
Junqueira, M.; G-72, N-121, N-176, N-28
Junqueira, V.B.C.; C-1, T-3, T-73
Junqueira-De-Azevedo, I.L.M.; B-11, B-3, B-38, B-45, D-1, N-135
Justi, S.A.; D-32

K

Kabeya, L.M.; T-68
Kadowaki, M.K.; L-85, L-86, L-87, M-62, M-63
Kagohara LT; B-10
Kalapothakis, E.; B-49, J-6
Kalil, J.; N-116, N-40
Kanashiro A; T-68
Kanashiro, M.; H-46
Kapczinski, F; R-3
Karl, J.; R-53
Katpally, U.; F-13
Kawai, C.; N-141, N-89
Kawakubo, C.F.; C-54
Kawano, C.; R-17
Kawata, V.K.S.; F-79
Kelly, J.; N-84, N-9
Kemmelmeier, C.; H-83
Kerr, D.S.; B-9
Key, S.G.; D-3
Khalil, NM; T-27
Khater, L.; F-59, G-19
Kikuti, C.M.; N-94
Kim, C.A.; M-32
Kirch, R.P.; E-103
Kirszberg, C.; C-23
Kitajima, J.P.; V-6
Kiyota, S.; N-119
KIZLTYKA, V.; S-29
Klassen, G.; B-12, C-35, N-23, R-54
Kleywegt, G; SP.07-1
Kobarg, J.; F-28, F-33, G-22, N-144, N-77
Kobayakawa; Q-11
Kobayashi M; C-3
Kobayashi, E.Y.; M-59
Koeller, C. M.; N-31
Koide, T.; G-69
Koizumi K; C-3
Kolberg, A.; H-100
Komura, D. L.; G-27
Konno, K.; N-65, S-52
Körbes, A.P.; E-98
Koritschoner, N.; G-15
Korkmaz, K.; SP.12-3
Koscky-Paier, C. R.; E-104, K-18
Kouyoumdjian, M.; E-94, L-4, S-31, S-32, S-34
Kovalhuk, L.; A-2, A-48
Kowaltowski, A.J.; A-1, A-37, G-20, T-28
Kraineva, J.; N-3
Kress Fagundes, M.R.Z.; G-4, G-9
Krieger, M.H.; J-19
Krieger, N.; H-110
Kubelka, C.; C-49
Kubitschek-Barreira PH; N-28
Kubo, C.E.G.; D-61
Kubota, L. T.; T-74
Kubrusly, F.S.; H-15, H-68, H-85
Kuckelhaus, S. A. S; H-55
Kumar, S.; SP.21-1
Kuniyoshi, T.M; N-77
Kurihara, T.A.; T-61
Kurtenbach, E.; D-16, E-74, G-70, H-23, N-41, N-67, O-3
Kviecinski, M. R.; P-33
Kyosen SO; C-10

L

Labriola, L.; B-24, B-42
Lacorte, C.; E-89
LAGARES,MA; H-90
Lage de Siqueira Neto, J.; G-14, G-19, G-6
Lago, S.N.; L-56
LAIA, M. L.; E-96
Lajolo, F.M.; E-107
Lamas, W.T.; S-35, S-46
Lana, M; G-57
Landeira-Fernandez, A.M.; A-23, A-33, A-43, R-32
Landini, G.F.; A-44, N-102, N-147
Lando V R; K-14
Lanman, J.; N-179
Lanza, D.C.F; E-113
LAPOUBLE, O. M; C-40, K-7
Lara, L.S.; L-108
Laranja, G; G-11
LARANJEIRA, JMG; O-6
Larson, R.E.; B-35, N-96
Latini, A.; JT.18-4, R-19, R-22, R-23, R-29, R-31, R-41, R-43, R-44
Laumann, R. A.; E-53, E-54
Laure, H.J.; J-16
Laurenti, M.D.; L-40
Laurindo, F.R.M.; B-3, N-23, SP.03-1, T-54
Lauris; B-4
Lauxmann, M. A.; E-99
Lavinas, F.C.; H-102
Lazarim, F.L.; K-2, K-22, K-3
Lazzarotto, G.B.; K-14
Leal, A. T.; D-65, D-71, O-7
Leal, A.M.B.; N-122
Leal, P. C.; P-17, P-32
Leal, R.B.; R-10, R-16, R-49, R-5, R-56, R-58, T-19
Leal, TF; G-58
Leal, V.F; C-2
Leao, LI; B-38
Lee D; G-62
Lee, K.H.; SP.05-1
Leipnitz, G.; JT.18-4, R-19, R-29
Leitão, D.P.S.; F-79
Leitão, G.G.; A-4
Leitão, S.A.T.; L-62
Leitão, S.G.; A-19, A-4
Leite, A. (H2); N-100
Leite, A. C. M. R.; M-15
Leite, A. C.; L-35
Leite, A.C.R.; I-10, I-7
Leite, C.E.; L-67
Leite, E.L.; G-8, M-15, M-25, M-27, M-55, M-57, M-7, M-92, M-94, M-98, SP.06-2
Leite, J.P.; R-45
Leite, J.R.; H-55
Leite, J.R.S.A.; S-19, S-24, S-28, S-8
Leite, K. M. S. C.; L-33
Leite, K.R.M.; M-100, M-59
Leite, L.C.; E-90, L-99
Leite, L.C.C.; H-12
Leite, L.D; B-50
Leite, M. F.; F-79
Leite, M.C.; R-35, R-38, R-39, R-53
Leite, M.F.; SP.23-2
Leite, M.S.; L-64
Leite, N. R.; G-55
Leite, R.S.R.; H-71
Leite, T.A; L-15
Leite,V. F.; E-70
Leke, R.; R-52
Leles, J.; L-44
Lellis, P. M.; G-70
Lemos, E.G.M.; F-11, F-12, F-56, F-58, F-63
Lemos, F.J.A.; D-31, D-46, D-85, E-39, H-112
Lemos, V.P.; D-31, D-46
Leo, R.R.T.; A-4
Leon, I.R.; N-110
Leonardecz; E-95
Leone, F.A.; A-20, L-1, L-22, L-5, L-55, L-57, L-6, L-92, N-115
Lery, L.M.S.; F-21, F-7, S-23, SP.05-4
Leszczinski; R-17
Lévano-Garcia, J.C.; L-43
Levin, M.; SP.08-1
Levy, R.A.; SP.10-1
Licínio, M. A.; P-17
Lima JP; C-13
LIMA, A. L. M.; L-114, L-34
Lima, A.C.P.; R-24
Lima, A.K.C.; G-33, G-65
Lima, A.R.; L-24
Lima, C.A. (H1); H-38
Lima, C.A. (H2); D-11
Lima, C.M.R (H2); D-17
Lima, C.M.R. (H1); K-8
Lima, C.S. (H1); N-156
Lima, D.F.; C-31

Índice de Autores

Lima, J. F.; G-4, G-9
Lima, L. M. T. R.; N-12, N-146, N-2, N-3
Lima, L.M. (H3); N-159, P-5
Lima, L.M. (H4); N-130
Lima, M, C, A; P-20
Lima, M.; P-8, P-9
Lima, M.C.O.P.; E-104, E-113
LIMA, M.L.O.; M-100
Lima, MT; B-25, B-32, B-62
Lima, N.R.W.; N-143
Lima, R.M.; K-10
Lima, R.M.F.; R-20
Lima, S.M.B.; N-46
Lima, V.L.M.; C-12, C-28, C-30, C-37, I-10, I-7, I-8, K-4, N-42, P-20, U-4
Lima, V.R.; Q-5
Lima. T. A.; H-88
Lima-Filho, J.L.; C-27, E-4, H-117, H-120, H-29, H-42, H-47, H-57, H-64, H-65, H-66, H-72, L-61, O-6, SP.02-3
Lin CJ; B-52, U-18
Linden, R.; B-2, J-2, SP.21-3, SP.23-3
Lins, E.; L-123
Lins, I. S. M. P.; H-57, H-64
Linss, J.G.B.; D-21
Lira, C.B.B.; G-14, G-19, G-48, G-6
Lira, M.C.B; H-19
Liria, C.W.; L-111
Lisboa, E.D.; E-131
Lisboa, H.C.F.; G-41
Livramento, G.N.; A-18, A-5
Lobão, F.A.; A-36
Lobo, F.P.; B-59
Lobo, T.C.C.; L-69
Loffredo,C.; S-33, S-47
Logullo, C.J.; D-14, D-65, D-7, D-79, E-60
Lojudice, F.H.; B-33, B-42, B-43
Lombardi, F.R.; N-111
Lombardo, M.; N-119
Lomonte, B.; N-113, N-160, N-163
Londero, L. G.; R-17
Longhi, J. A.; T-34, T-39, T-40
Lopes A. G.; P-3
Lopes Bezerra, L.M.; C-54, N-28
Lopes Jr, C.O.; L-94
Lopes, A.H.C.S.; G-33, G-60, G-61
LOPES, A.P.S.; H-50
Lopes, A.P.Y.; H-93
Lopes, A.R. (H1); D-50, D-6, D-68
Lopes, C.C.; M-6, M-82, M-88
Lopes, C.S.; I-16, P-2
Lopes, C.V.; S-55
LOPES, D. S.; N-87
Lopes, F. M.; H-89, L-109
Lopes, F.G.; D-37
Lopes, G.S.; E-94
Lopes, J.C.D.; V-16
Lopes, J.L.S.; N-27
Lopes, K. V.; U-17
Lopes, L.C.L.; M-60
Lopes, M.A.C.; E-114
Lopes, M.C.B.T; E-94
Lopes, M.H; N-3, R-54
Lopes, M.L.; N-6
Lopes, M.L.M.; H-102
Lopes, M.T.P.; E-86
Lopes, N. S. P.; H-56
Lopes, N.P.; JT.18-5, T-4
Lopes, U.G.; N-25
Lopes, W.B.; N-110
Lopes,A.B.; N-159
Lopes-Cendes, I.; C-17, C-55, N-10, N-174, SP.16-2
LopesDuarte,D; H-80
Lopez, A.M.Q.; H-99
López, M.L.; U-26
Lorena Betancor; H-69
Lorena M. R. Mascarenhas; K-1
LoSan, T.; N-158, N-47
Lotfi, C.F.P.; I-24
Lothar W. Bieber1; H-4, H-63, N-95
Loureiro, A.P.M.; C-44, T-70
Loureiro, M.E.; E-113, E-118, E-84
Loureiro, M.M.; F-68
Loureiro,N.I.V; V-8
Lourenço, G.F.; E-68
Lourenço-de- Oliveira, R.; D-13
Lourenzoni, M.R.; N-4, N-5
Louro, R. P.; E-46, E-69
Louro, R.; B-14, B-27, B-40
Louzada Jr, P.R.; R-9
Louzada, G.S.M.; B-17
Lovato, D.V.; D-59, D-60
Lowe, J.; A-41, SP.17-4
Lozano, J.L.L.; N-170
Lozzi, SP; D-22
Luchesi, D.M.; H-121
Lucisano-Valim, Y.M.; T-68
LUDTKE, D.S.; T-64, U-23
Luiele, M.L.; K-20
Lustoza, A.C.; A-7
Luvizon A. C.; J-12
Luz, D.F.; E-31
Luz, J.S.; G-68
Luz,MRMP; K-17

M

Mabtum, F. D.; H-44
Macêdo, A. A. M.; M-79
MACEDO, C. S.; L-114
MACÊDO, C.S.; H-104, H-39
Macedo, D.V.; K-2, K-3, T-74, U-3, U-5
Macedo, L.L.P.; N-30, N-52
Macedo, M.L.R.; D-34, D-35, D-36, D-38, D-39, D-46, D-61, D-8, E-12, E-16, E-21, E-83, N-15
MACEDO, NMR; N-124
Machado, A.; SP.13-4
Machado, A.A.; G-42
Machado, C.R.; B-59
Machado, D.C.; H-111, H-13
Machado, D.N.; E-84
Machado, E.A.; D-16, D-30, D-37, D-4, D-5, D-56, D-82
Machado, M.A; F-43, F-49, SP.09-1
Machado, M.F.M.; L-101
Machado, O.L.T.; E-120, E-125, E-129, E-24, E-44, E-47, E-5, E-80, E-81, N-143, O-8
Machado, R.S.; R-7
Machado-Santelli, G.M.; D-24
Machado-Silva J.R.; G-18
Maciel, F.M.; E-114
Maciel, G.R.; N-67
Maciel, J.C.; H-27, H-5
Maciel, R.; B-58
Macrini, C.M.T.; E-22
Madjarof, C.; T-43
Madureira, H.C.; E-47, E-6
Mafra, C.L.; F-72, V-9
Magalhães LG; G-64
Magalhães, C.P.; D-74
Magalhães, D.A.; G-52
Magalhães, J. D. S.; R-6
Magalhães, R. D.; E-63
Magalhães, S. M. M.; M-79
Magdesian, M.H.; S-4
Magnani, G.S.; F-17
Magnani,T; A-9, G-10, G-7
Maia, F.M.M.; E-23, T-42
Maia, I.G.; C-17, E-11
Maia, M.B.S.; I-10, I-7
Maia, M.M.D.; H-42, H-64
Maia, R.A.; B-30
Maia, V.H.; E-57
Maia, W.B.; K-4
Mainardi, JA; E-107
Maior, R. M. S.; H-19
Majerowicz D; D-42
Majumder, P.; P-10, R-26
Malaspina, O.; L-98
Malavazi, I.; E-124, G-4, G-45, G-9
Malavazi-Piza, K.C.; D-62
Malavolta, L.; S-39
Maldonado, R.A.; S-50
Malnic, B.; B-15, B-16, B-17, B-9, V-13
Malta-Neto, N.R.; H-17, N-108
Mandel, S.M.S.; S-28
Mangili, O.C.; C-47
Mangini, R.; SP.08-2
Mannarino, S.C.; T-5, T-51
Mano, C.M.; T-32
Manso E. D; L-113
Mansur, J.F.; D-30, D-31
Mansure, J.J.C.; B-47
Manta, F.S.N.; F-21, F-7
Mantelatto, F.L.M.; L-5, L-6
Mantovani M.C.; J-8
Mantovani, M. (H2); G-26, L-70, SP.16-3
Mantzouranis, L.; G-16
Manzine, L.R.; G-73
Maracajá-Coutinho, V R H; B-40
Maragno, A.L.G.C.; B-7, G-46
Marana, S.R.; D-20, D-51, D-80, L-11, L-12, L-16, L-51, L-59
Marangoni, S.; D-38, E-12, E-21, F-43, N-100, N-113, N-160, N-163, N-63, O-1, S-49, S-7
Maranhão, A.Q.; E-64
Maranhao, R.C.; H-6
Marchetto, R.; H-22, H-7, H-86
Marchi CJ; A-27
Marchi-Salvador, D. P.; N-70
Márcia Olandoski; P-19
Marcinkiewicz, C.; S-10
Marcondes, S.; J-19
Marcussi, S.; H-17, H-43, H-44, L-25, N-108
Marengo, E.B.; C-45
Marengo-Santos; C-55
Mares-Guia, M.L.; V-12
Mares-Guia, T.R.; V-12
Margis, R.; E-36, E-40, I-12, N-59, SP.16-1
Margis-Pinheiro, M.; E-40
Maria, DA; B-19, B-45
Maria, R. C.; R-22, R-23, R-44
Mariana Nigro; A-11, A-22
Mariano, A.B.; A-2, A-48
Mariano, A.G.; E-18
Mariano-Oliveira, A.; S-45
Marie, S.K.N.; B-25, B-29, B-5
Marinho, A.P.; F-16
Marinho, F.A.; G-30, G-44
Marinho, J. S.; D-53
Marinho, P. E. A.; K-11, K-18
Marinho-Carvalho, M.M.; L-21
Mario,O.Neto; N-157, N-48, N-88
Marnett, L.J.; CF.02
Marque, V. C. L.; E-129, E-70
Marques Filho, M.F.; M-97
Marques Jr; U-6
Marques, C.T.; M-15
Marques, F.O.; R-42
Marques, M.R. (H1); N-17
Marques, M.R.F.; T-48
Marques, P.R. (H1); P-2
Marques, S.A.; T-70
Marques, V.M; L-15, L-18
Marques. ER,; E-67
Marson, B. M.; M-31, M-52
Martin-Didonet, C.C.G.; F-17
Martinelli ALC; F-53
Martinelli, A.H.S.; L-120
Martinello, F.; M-35, T-68, U-20
Martinez AM; N-134, R-27

Martinez, C.E.; F-3
Martinez, C.R.; H-29
Martinez, D.S.T.; D-8
Martinez, G.R.; A-2, A-42, A-47, T-21, T-22, T-61
Martinez, L.; SP.15-3
Martinez, P.F.; M-40
Martins Jr, R.R.; E-58
Martins, A B.; N-102, N-147
Martins, A. C. C. L.; L-94
Martins, A.F.; U-21
Martins, A.H.B.; R-18, R-25, S-4
Martins, A.M.; C-10
Martins, A.M.C.R.P.F.; N-119
Martins, A.P.C.; P-19
Martins, A.R.; B-30, N-56, R-45, R-47, V-6
Martins, C.H.Z.; D-34
Martins, D.; F-43
Martins, D.B.G.; H-120, H-65, H-66
Martins, J.F.; G-67
Martins, J.R.M.; M-100, M-59
Martins, L.A.M.; J-18
Martins, M.A.C.; L-40
Martins, N.F.; N-129
Martins, N.H.; N-54
Martins, O.B.; F-68, F-71, F-75, H-87, L-45, N-139
Martins, R. M.; N-180
Martins, R.A.P.; SP.23-3
Martins, S.M.; N-134
Martins, V. P.; A-9, G-10, G-7
Martins, V.R.; N-3, R-54, R-7
Martins-Jr, A.J.; D-21
Mascarin, P.O.M.; H-51
Massabni, A.C.; P-30
Massironi S. M. G.; B-13
Massucatto, D.; L-39
Massunaga, A. P.; A-43
Masuda, A.; D-14, D-15, D-65, D-7, D-71, D-84, O-7
Masuda, H.; D-13, D-18, D-23, D-43, D-49
Masuda, H.P.; E-105, E-22
Masui, D.C.; A-20, L-22, L-55, L-57, L-6, L-92
Mateer, S.C.; CF.12
Matheucci Jr, E.; H-103, H-114, H-13
Matos L. W.; E-80
Matos V. S.; U-10
Matos, T.E. de; E-73
MATOZO.H.C; N-51
Matroniani, A.; T-3
Matsushita, R.H.; S-22
Matta, L.D.M.; L-114, L-27, L-34
MATTANA, F C; M-62, M-63
Matte, U.; R-37
Mattos, E.; O-3
Mattos, G. E.; J-10
Mattos, K.A.; F-34
Mattos, R. T.; O-7
Mattos, T. G.; C-18
Maurer-Menestrina, J.M.; A-2, A-48
Mauro, S.M.Z.; E-10
Maximiano, F.A.; Q-4
Máximo, L.V.; G-25
Maya-Monteiro, C.; C-26
MAYER, Clarisse; H-105, K-21
Mayer, M.; K-21, P-21
Mazzafera, P.; CF.11
Mazzi, M. V.; L-25
McClelland, M; SP.12-3
McNamara, J.C.; A-20, L-22, L-57, L-6
Medaglia, A.; H-114
Medeiros Silva, G. M.; H-42
Medeiros, A.H; E-7
Medeiros, L.N.; D-16, E-74, N-41
Medeiros, M.H.G.; C-44, T-17, T-18, T-20, T-21, T-22, T-61, T-70
Medeiros, M.N.; D-16, D-82
Medeiros, M.S.; SP.05-4
Medeiros, M.S.A.; N-112
Medeiros, R.C.; I-9
Medeiros, S. T.; M-73
Medeiros, V.P.; M-27, M-87, M-98, M-99
Medina, J. M.; A-24
Medrano, F.J.; F-73, N-109, N-118, N-166, N-175, N-26, N-39, N-53, SP.11-3, T-13
Mega Franca; E-57, F-68
Meier, L.; L-39
Meinhardt, L.W.; G-31
Meireles, D.A.; I-18
Meirelles, N.C.; J-17, L-106
Melim, L.M.C; M-21
Mellinger, C.G.; M-19, M-31, M-45, M-52, M-56, M-70, M-72
Mello P.A.; J-14
Mello, APQ; T-23, T-82
Mello, V.J; E-86
Melo Filho, N.M.; M-50
Melo, A. L.; D-29
Melo, A.C.A.; D-49
Melo, C.M.L.; H-98
Melo, E. I.; M-64
Melo, F. H. M.; N-152
Melo, F. M.; U-13
Melo, F.R. (H1); M-17, M-48, M-53, M-64, SP.10-3
Melo, F.R.; J-11
Melo, F.R.M; C-53
Melo, G.; L-44
Melo, J.A.T.; D-33, E-50, H-51, S-19, S-24, S-56, S-8
melo, krb; L-29, L-91
Melo, L.D.B.; N-25
Melo, M.R.S.; M-53, M-79
Melo, P. S.; P-13, P-15, P-16, P-24, P-7, T-2
Melo, P.L.C.; D-57
Melo, R.A.M.; H-57
Melo, R.J.V.; C-18
Melo, R.L.; L-24
Melo, V.M.M.; E-48, M-73
Melo-Ferreira, F.; SP.02-3
Melo-Júnior, M.R.; H-25, H-98
Mencalha, AL; B-21, B-26
Mendes de Aguiar, C.B.N.; R-1
Mendes, A.; C-33, M-100, M-27, M-59
Mendes, C. M.; H-105
Mendes, F.Q.; K-11, K-18
Mendes, L.J.; D-30
Mendes, M.A.; L-98, N-14, N-17, S-14, S-27, S-41, S-5
Mendes, M.M.; N-167
Mendes, Y.S.; F-13, F-37
Mendes-Silva, W.; P-14
Mendonça, B.B.; U-18
Mendonça, E.G.; D-54, U-17, U-8
Mendonça, J. D.; F-31, L-32
Mendonça, L.H.; D-18
Mendonça, L.M.; L-56
Mendonça, L.M.F; L-12, L-51
Mendonça, N. M.; L-22
Mendonça, T.A.; B-4
Mendonça, Z.; B-25
Mendonça-Lima, L.; G-39
Mendonça-Previato, L.; F-34, N-159, N-31, N-44, N-92, P-29
Menegaz, D.; B-50
Meneghini, R.; F-60, F-67
Menetti, NFS; N-96
Menezes, F.S.; T-38
Menezes, L.N.S.; E-40
Menossi, M.; E-10, E-130, SP.22-2
Mercadante, A.F.; B-16, B-9
Mercê, A.L.R.; H-79
Mercola, D.; SP.12-3
Merino, E.; K-12
Mesquita, J.M.F.; M-34
Mesquita, R.D.; D-37
Mestecky, J.; N-37
Meyer-Fernandes, J.R.; G-61, L-107, L-108, L-126, L-64, L-65
Michelacci, Y.M.; L-76, M-32
Michelin , K.; B-46, C-34, C-42
Michelin, M.; L-104
Mignaco, J.A.; A-16, A-28, A-29, A-3, A-31, G-65, N-115, N-24
Miguel, F.; T-26
Miguens, F.C.; D-46
Milagres, A.M.F.; H-82
Miletti, L.C.; H-109, H-60, H-61, I-11
Milhome, M.V.L.; C-21
Milhomem, D.A.; K-8
MILICCHIO, V. A.; N-141, N-89
Millen, T.A.; N-179
Minafra, C. S.; L-94
Mineo, JR; P-1
Minhoto, M.J.; SP.19-3
Mintz, E.; A-41, CF.18, SP.17-4
Mioranza, A.; L-85
Miotto, Barbara; C-43
Miqueleto, A.P.; F-47
Miranda, A.; E-16, L-113, S-1, S-35, S-40, S-46
Miranda, A.S.M.; E-73
Miranda, E.M.; K-5
Miranda, J.M.; F-40
Miranda, K.; SP.02-3
Miranda, M.A.; J-17, L-102, L-106
Miranda, M.T.M.; L-111, S-33, S-35, S-40, S-46, S-47, S-50, S-6
Mitchell, D.A.; H-110, H-118, H-62
Mittal. S.; SP.12-3
Miyada, E.Y.; D-39
Miyaji, E.N.; H-12
Miyamoto, S.; T-20, T-21, T-22
Mohana-Borges, R.S.; F-41, N-169, N-2, N-81
Molfetta, J.B.; E-126, E-38, E-76
Monedero, V.; H-12
Monte, J.R.; H-82
Monteiro de Paula, F.; E-58
Monteiro, A.C.G.; E-82
Monteiro, G.; T-13, T-8
Monteiro, H.P.; I-23, R-40, SP.21-4
Monteiro, H.S.A.; L-40
Monteiro, N. K.; H-76
MONTEIRO, N.K.V.; N-30, N-52
Monteiro, P.A.; P-13
Monteiro, R M; A-26
Monteiro, R. Q.; C-23, C-49, C-6, D-29, M-24, M-36, M-48, M-64, N-12, N-142, P-14, P-6, S-45, SP.10-2
Monteiro, R.A.; F-15, F-38, F-52, M-11, SP.05-2
MONTEIRO, Roger; T-63, T-75
Monteiro-Moreira, A.C.O.; M-54, N-112, N-165
Montero-Lomeli, M.; F-4, F-41, I-14, N-125
Monti,R.; L-88
Montor, W.R.; B-24, B-42
Monzani, P.S.; N-122
Moore, S.; N-138
Moraes AML; L-133
Moraes Filho, M.O.; N-124
Moraes Neto, A.H.A de; G-77
Moraes, D.I.; N-177, N-27
Moraes, F.A.; M-80, M-87, M-98
Moraes, F.M.S.; E-33
Moraes, G.H.K.; F-64, F-66, F-72, L-94, U-16, U-22
Moraes, J.; D-14, D-7, D-79
Moraes, J.A.; S-10
Moraes, J.R.; R-2
Moraes, K.C.M.; B-6
Moraes, L.D.V.; C-45
Moraes, L.F.P.; N-168
MORAES, M.P.; F-64, F-66

Morais R. R.; H-78, H-96
Morais V; D-73
Morais, A.C.S.; R-6, S-12
Morais, J.K.S; E-111, E-97
Morais, V. L. L.; N-99
Morán, A.; SP.04-3
Morandi, V.; C-54
Moreau, V.H.; F-2, V-11
Moreira, D.A.C.; I-15, L-56
MOREIRA, D.C.; B-22
Moreira, F.G. (H1); L-93
Moreira, J.C.F.; C-20, D-83, T-33
Moreira, K. A.; H-72
Moreira, K.A.; H-29, L-61
Moreira, M.A.; E-115, E-117, E-45, U-17
Moreira, M.F. (H1); D-13, D-30, D-31, D-32, D-43
Moreira, N.R.; D-53
Moreira, O. C.; A-24, A-3
Moreira, R.A; C-21, E-101, M-54, M-79, N-112, N-165, SP.19-4
Moreira, R.F.A.; E-91
Moreli, L. A.; N-98
Moretão, M.P.; M-8
Moretti, N.S.; L-86
Morganti, L.; B-39
Morin, I.; A-41, SP.17-4
Moro, A.; P-27, T-64, U-23
Moro, L. P; L-125
Morris, L.E.; CF.12
Mortari, N.; H-103
Mortera, P.; SP.05-4
Mota, E.F.; O-10
Motta MCM; G-12
Motta O.V.; F-8
Motta, G.; L-29, L-76, L-91
Motta, L. S.; D-5
Motta, L.S.; D-56
Mottin, C.C.; C-32
Moura Neto, V.; R-10, R-21, R-58
Moura R.; B-18
MOURA, R. M.; N-30, N-52
Moura, C.P; M-55
Moura, D.J.; D-15
Moura, D.S.; E-7
Moura, G.E.D.D.; N-30, N-52
Moura, G.Q.; G-8
Moura, P.; SP.02-3, U-13
Moura, P.R.; F-28, F-33
Moura, RAB; C-25
Moura, S.A.B.; C-31
Moura, S.P.; Q-9
Moura-da-Silva, A.M.; N-29
Mourão, M.M.; G-15
Mourão, P.A.S.; M-10, M-12, M-14, M-16, M-26, M-29, M-33, M-36, M-44, M-48, M-50, M-53, M-64, M-66, M-73, M-77, M-84, SP.10-3
Mourão, R.H.V.; P-20
MOURE, Vivian R.; H-118, H-62
Mudado, M.A.; V-17
Müller, A. P.; R-17
Müller, E.S.; U-22
Mundim N. C. C. R.; S-26
Munhoz, D.C.; T-15
Muniz, J.R.C.; N-29, N-80
Muniz, M. A. R.; E-49, E-52
Muniz, M.T.C.; SP.02-3
Murad, A.M.; G-37, H-88
Murad, J.C.; H-111, H-13
Murad, M. A.; E-61, E-95
Murai, MJ; N-174
Murakami, M.T.; N-106, N-127, N-50
Murata, G.M.; J-20
Murgu, M.; N-76
Muricy, G.; A-18
Mury, F.B.; D-77
Myler, P.; CF.10

N

Nader, H.B.; C-33, C-46, CF.07, L-10, L-115, L-132, L-29, L-76, L-79, L-8, L-91, M-100, M-27, M-30, M-59, M-6, M-71, M-80, M-82, M-87, M-88, M-98, M-99, SP.06-2
Naffah-Mazzacoratti, M.G.; SP.02-1
Nagaoka M.R.; S-31, S-32
Nagem, R.A.P.; N-53, SP.11-3
Nakagi, V.S.; L-2
Nakahata, A.M.; E-106
Nakaie, C.R.; E-16, E-92, H-80, L-113, N-154, N-158, S-37, S-38, S-39
Nakamura, A.; D-23
Nakao, L.S.; C-35, J-12, N-23, R-54, T-41, T-54
Nakaya, H.T.I.; B-14, B-27, B-40
Nakayasu, E.S.; M-61
Namur, J. A. M.; Q-13, Q-8
Nantes, I.L.; A-8, L-110, N-141, N-89, T-29, T-45, T-53, T-56, U-10
Napoleao, T.H.; H-4, H-63, N-95
Napolitano, D.R; P-1
Nardi, D. T.; S-38
Nardin, P.; R-35
Nascente, L.C.; H-58
Nascimento, A.C. (H2); S-44
Nascimento, A.L.T.O.; H-10, H-68, H-74, H-81
Nascimento, A.S.; N-88, SP.15-3
Nascimento, C.O.; H-28
Nascimento, C.R.; P-3
Nascimento, F. D.; C-46, L-10, L-8
Nascimento, F.D.; M-87, M-98
Nascimento, H.J.; H-119, H-121
Nascimento, J.H.M.; T-7
Nascimento, J.M.; L-47
Nascimento, JRO; E-107
Nascimento, K. S.; R-49, R-56
Nascimento, O.R.; T-29
Nascimento, R. M.; L-114, L-34
Nascimento, S.C.; H-19
Nascimento, V.V.; E-120
Nascimento-Silva, M.C.L.; F-18
Nasciutti,L.E.; M-13, M-41
Nassif, M.; R-30
Natal, A. M. D.; U-14
Nathanson, M. H.; SP.23-2
Navarro, M.V.; E-15, N-61
Nazareth, R.A.; N-142
Neder, L.S.; R-45
Negreiros, A.N.M.; C-31
Neher, E.; CF.01
Nelson I. Miyague; P-19
Nepomuceno-Silva, J.L.; N-25
Neri, D.F.M.; C-53, E-127
Nery, A.; R-18, R-25, R-26, S-4
Nery, F.C.; N-77
Nesi, A.; E-84
Neto, A.M.P.; T-16, T-67
NETO, O.C.; F-66
Nettles, K.; SP.15-1
Netto, L.E.S.; L-17, N-26, N-47, SP.11-1, T-10, T-12, T-13, T-15, T-28, T-52, T-55, T-8
Netto, S.L.; H-85
Netz, D.J.A.; N-117
Neuhof, C.; E-77
Neuhof, H.; E-77
Neves, A.; P-31
Neves, C. M.; J-11, J-13
Neves, F.A.R.; N-137, N-88, SP.15-3
Neves, F.O.; H-81
Neves, K.; L-45
Neves, M.C.; L-46
Neves-Ferreira, A.G.C.; E-5, F-21, F-55, F-7, N-110, N-135
Neves-Souza, PCF; C-49
Nicole Rovani; N-67
Nicoluci, R. P.; G-36, L-70, V-3
Nimrichter, L.; M-51, M-61, M-68
Ninômia PassosM.A.N.; H-92
Nishikido N. R.; L-111
Nishiyama Jr., M. Y.; G-16
Niwa, K.; L-103
Njaine, B.; SP.23-3
Nobrega, A.; D-17
Nobrega, F.G.; G-2
Nobrega, M.P.; G-2
Noelia Alonso-Morales; H-69
Nogaroto, V.; E-119
Nogueira, A.C.F.; I-8
Nogueira, C.W.; C-43, P-27
Nogueira, E.M. (H1); E-20, N-105, SP.22-4
Nogueira, E.V.M.; C-53
Nogueira, F.T.S.; E-17
Nogueira, K.C.; SP.08-2
Nogueira, L.; L-58
Nogueira, M.D.; M-100
Nogueira, N.P.A.; G-11
Noindorf, L.; F-70
Noleto, G.R.; A-42, A-47, H-79, M-31
Nomizo, A.; H-17, H-24
Nonato, M.C.; L-54, N-171, N-68, SP.15-4
Norberto; A-44, N-102, N-147
Noronha, E.F.; E-110, E-49, E-50, E-53, E-54, E-59, E-61, E-95, H-49, H-50, H-51, H-56, H-88, N-75
Noseda, M.D.; H-79, M-38, M-76, M-78, M-83, M-85, M-91, M-93, M-95
Novello, J.C.; E-12, E-21, F-43, G-48, N-113, N-160, N-163, O-1, S-49, S-7
Novo JB; H-16
Nowatzki J; B-22
Nunes F.M.; N-137, N-49, SP.15-3
Nunes F; J-7
Nunes GLC; L-113
Nunes, F.R.A.; I-15
Nunes, LAS; T-74, U-5
Nunes, M.L.A.; I-15
Nunes, R. J; P-17
Nunes, T.A.S.; I-15, L-53, L-56
Nunes, V.A.; L-132, L-72, L-76
Nunes,NNS; D-46, D-85
Nunes-Tavares, N.; M-17
Nussenzweig, V.; CF.14

O

Oba-Shinjo, S. M.; B-25, B-29
Obici, L.; L-75
Oehlmeyer, T.L.; N-103, N-91
Ogawa, F. T. G.; N-103, N-60, SP.14-3
Ogliari J; E-62
Ogusucu R; T-15
Ohashi , K.; D-48
Ohelmeyer, T.L.; SP.14-3
Ohmiya, Y.; SP.14-2
Okamoto, D.N.; L-127, L-128
Okayama, A.; L-127
Okorokov, L.A.; A-12, A-13, A-26, A-46, A-7
Okorokova-Façanha, A.L.; A-12, A-26, A-36, A-46, A-7
Olhê, C. A.; G-51
Oliva, G.; L-39, N-13, N-29, N-80, SP.08-4, V-3
Oliva, M. A. V; N-161
Oliva, M.L.V.; E-106, E-13, E-15, E-16, E-77, E-78, E-92, E-93, E-94, SP.02-4
Oliva, MA.; E-32
Olivares, F. L.; F-9
Olivares, F.L.; F-23
Oliveira K A; F-72
Oliveira L O; F-72

3-Indice_autores.pmd 102 6/6/2005, 12:38

Oliveira Neto, M.; SP.15-3
Oliveira P.A.G; F-36
Oliveira TM; M-39
Oliveira, A. E. A.; E-114, E-5, E-51, E-80, E-81, E-82, E-87, E-88, E-9, K-10
Oliveira, A.C. (H2); F-13, F-37, N-46, N-79, N-82
Oliveira, A.D.; N-153
Oliveira, A.K.; D-83
Oliveira, A.M.C.; J-16
Oliveira, A.S. (H1); N-30, N-52
Oliveira, B.H.; A-47
Oliveira, C. C.; M-8
Oliveira, C. F.; N-87
Oliveira, C. K. M.; N-99
Oliveira, C.; E-106
Oliveira, C.C.; G-68, S-50
Oliveira, C.G; F-25
Oliveira, C.L.P.; N-58, N-64
Oliveira, C.L.P; N-169
Oliveira, C.M.F.; D-3
Oliveira, C.P.H.; C-5
Oliveira, CB; G-57
Oliveira, D.G.; L-40
Oliveira, D.S.C; B-21, B-26
Oliveira, DMP; D-4
Oliveira, E.B.; B-31, H-17, N-140
Oliveira, F.B.; B-47, D-23
Oliveira, F.S.; N-56, V-7
Oliveira, F.W.; C-33, M-25, M-92, M-94, N-30, N-52, SP.06-2
Oliveira, G. M. M; E-47
Oliveira, G. M.; A-11
Oliveira, G.A. (H2); D-29
Oliveira, G.R.; D-45, S-51
Oliveira, H. P.; E-97
Oliveira, H.C.; A-35, C-11, C-16, C-22
Oliveira, I.L.; F-47, V-5
Oliveira, J.A. (H1); D-47, D-53, D-54
Oliveira, J.C.F.; F-60, F-61, F-67, N-39
Oliveira, J.G.; A-25, E-128
Oliveira, J.S. (H1); L-36, N-17, N-69, N-85
Oliveira, J.S. (H2); D-63, H-90
Oliveira, J.S; N-124
Oliveira, J.T.A.; E-111, E-122, E-23, E-73, E-97
Oliveira, K.A.P.; A-21
Oliveira, K.C.; E-10, G-23
Oliveira, L. (H1); N-136
Oliveira, L. O.; E-87
Oliveira, L. T.; R-9
Oliveira, L.; S-9
Oliveira, L.M.N.; A-40, A-45, A-49
Oliveira, M. A.; L-89
Oliveira, M. C.; G-38
Oliveira, M.; L-8
Oliveira, M.A. (H1); D-31, N-26, T-13, T-52
Oliveira, M.A. (H2); SP.11-1
Oliveira, M.A.; L-117
Oliveira, M.B.M.; A-2, A-42, A-47, H-79, M-31, M-8, P-23, T-61, T-77
Oliveira, M.C.; E-112, E-19
Oliveira, M.C.B.; P-31
Oliveira, M.D.L; N-43, N-8
Oliveira, M.F.; A-17, A-34, D-14, D-23, D-25, G-43, R-48, T-7
Oliveira, M.G.A.; D-47, D-53, D-54, D-63, L-42, U-17, U-8
Oliveira, M.I.P.; E-4, H-47, L-48, L-61, O-6
Oliveira, M.L.; E-108, E-118, E-31, U-16
Oliveira, M.L.C.; C-2, C-5
Oliveira, M.L.S.; H-11, H-12, H-16
Oliveira, M.M.M.; H-105
Oliveira, N.D.; O-8
Oliveira, O.M.M.F.; L-135, L-33, L-95, T-11, T-27
Oliveira, P.B.; I-1
Oliveira, P.L.; A-17, C-26, D-17, D-19, D-25, F-18, G-43, N-166, T-69
Oliveira, P.S; K-19
Oliveira, P.V.; S-6
Oliveira, R.C. (H4); L-46
Oliveira, R.R.; N-96
Oliveira, S.C.C; E-59
Oliveira, S.R.; S-22
Oliveira, T.H.G.; U-19
Oliveira, T.T.; F-64, L-94, U-16
Oliveira, V. H.; A-16, A-28, A-29, A-3
Oliveira, V.; D-60, L-101, L-7, L-8
Oliveira, V.A.; H-106
Oliveira, V.X.Jr.; S-35, S-46
Oliveira, VC; J-16
Oliveira-Carvalho, A.L.; F-62, N-135, N-73, S-18, S-23, S-42
Oliveira-Jr, L.F.G.; E-121
Oliveira-Montanaro, S.M.; L-4
Oliveira-Netto, C.B; R-37, R-39
Oliver, C.; J-16
Oliveria, L. O.; E-28
Olmo, RP; G-58
Olson, J. S.; H-87
Ondei, L. S.; N-35
Onuma, M.; D-48
Orcini, W. A.; L-71
Orellana, M.D.; J-16
Orellano, E.G.; E-99
Orlando, M.T.; G-67
Ornelas C. C.; D-6
Ornelas, M.C.N; H-45
Ortega, J.M.; H-37, V-1, V-17
Ortiz-Costa, S.; N-142
Osaku, C. A.; L-85, L-86, M-62, M-63
Oses, J.P.; R-52
Osiro, D.; F-58
Otoch, M.L.O.; A-49
Otsu, C.T.; E-37
Otsuki, K; E-35, E-47
Ouchi R. Y.; L-127, L-128
Ouwerkerk, P B F; E-85
Owen, J. S.; C-28
Oyama Jr, S.; N-86

P

Paba, J.; G-52, N-170
Pacello EM; G-64
Pacheco Otarola, L.F.; Q-10
Pacheco, F.V.; U-26
Pacifico, D.S.; C-38
Padiar, N.R.H.; E-18
Padilha M.H.P.; L-16
Padilha, R.J.R.; H-33
Padoin, A.A.; C-32
Pádua, V.L.M.; F-34, F-68, SP.22-4
Paes, M.C.; G-11
Paes, P S; E-85
Pagnocca, F.C.; L-35
Paim B.A.; A-35
Pais, T.M.; G-25
Paiva, A.C.M.; N-136, S-37, S-38, S-9
Paiva, J.F.; SP.06-2
Paiva, K.B.S.; B-4, J-7
Paiva, P.M.G.; C-12, C-18, H-27, H-4, H-63, N-38, N-42, N-57, N-62, N-95, SP.19-2
Paiva-Silva, G.O.; D-19, D-25, D-42, H-102, T-69
Paixão F.; I-3
Paixão, A.D.O.; I-9
PAIXAO, M.W.; U-23
Paixão, R.P.; R-13
Palhano, F.L.; G-66, G-67
Palma, L.M.; A-7
Palma, M.S.; E-18, L-98, N-14, N-17, S-14, S-27, S-41, S-5, S-54
Palmieri, A.M.; K-16
Palmieri, L.C.; N-84, N-9
Palmieri; SP.09-1
Paloma Melo; A-6
Palombino, D.D.; L-106
Paludo, K.S.; B-22, B-34
Pandolfo, H.L.; L-7
Panek, A.D.; G-5, T-38, T-44, T-47, T-5, T-51, T-59
Panizzutti, R.; R-24
Papini-Terzi , F. S.; E-10
Pappas, G.; E-103, SP.09-3
Parada C.; C-45
PARANHA, R. G.; M-93
Parducci, R. J.; E-126
Parmigiani, R.B.; B-18
Parolini, M.T.; L-136, L-73
PARRA, J.R.P.; D-34, D-35, D-36
Pascarelli, B.M.O.; M-43
Paschoalin, T.; L-14
Paschoalin, V.M.F.; F-1, F-27
PASCHOARELLI, P.V.G.; M-35, U-20
Pascoal M. P.; H-78, H-96
Pascoal VDB; C-17
PASCOTTO, M. P.; H-50
Pascutti, P.G.; N-36
Pasquali, G.; E-103, E-75, E-98, L-120, SP.09-3
Pasqualini, R.; N-116
Passero, F.D.; L-40
Passerotti, C.C.; M-100, M-59
Passos, D.O.; G-22, N-77
Passos, F.L.; H-104, H-39, L-15, L-18, U-11, U-7, V-9
Passos, M. A.; K-22, T-74, U-3
Passos, MDM; F-20
Passos, P.I.B.; C-40, N-72
Patussi, E.V.; D-69
Paula, A.F.; N-159
Paula, D.P.; F-73
Paula, F.B.A.; I-15
Paula, M.M.S.; R-55
PAULA, S.M.A.; E-122
Paulino, T. P.; T-83
Pavão, M.S.G.; BJC-2, M-2, M-21, M-22, M-24, M-34, M-43, M-47
Paz, N.V.N.; H-27, H-35
Pazos, M.C.; M-88
Pazzini, F.; E-103, V-4, V-7
Peabody, D.S.; N-46
Pecly, I.M.D.; M-50
Pedersen, M.; T-1
Pederzolli, C.D.; R-42
Pedra Jr. P.C.O.; D-73
Pedrazza, E.L.; R-15
Pedrolli, D. B.; L-83
Pedrosa, F.A.; F-51
Pedrosa, F.O.; F-15, F-17, F-38, F-44, F-45, F-48, F-52, F-70, F-76, F-80, M-11, N-76, SP.05-2
Pedrosa, M. L.; T-49, T-50, T-66
Pedrosa, M.F.F.; N-106
Pedrosa, R.C.; P-32, T-81
Peimbert, M.; SP.04-3
Peitl, P; B-18
Peixoto, A.A.; D-21
Peixoto, B.R.; B-20
Peixoto, CK; S-24
Peixoto, S.C.; L-104, L-74
Pelegrini, P. B.; E-49, E-50, E-53, E-54, E-59, S-56
Peluzio, M.C.G.; E-115
Penha, C.V.L.; N-28
Penna, A.L.B.; M-69
Perales, J.; F-21, F-55, F-7, N-110, N-135
Peralta, R. A.; P-31
Peralta, R.M.; H-84, L-19, L-75, L-86, L-87, L-89, L-93, L-96
Perciani, C.T; H-14, H-15

3-Indice_autores.pmd 103 6/6/2005, 12:38

Índice de Autores

Perecin-Araujo, F.; Q-7
Pereia, C.Q.; H-102
Pereira A.G; E-110
Pereira V G; C-10
Pereira, A.L.M.; B-19, SP.02-2
Pereira, A.M.S.; H-43
Pereira, A.S.A.; H-33
Pereira, A; C-16
Pereira, C. A. B.; E-10, SP.08-3
Pereira, C.A.; J-8
Pereira, E.C.; H-18, H-21
Pereira, E.M.; T-73
Pereira, F.M.; G-44
Pereira, G. C. Z.; M-42, M-65
Pereira, G.A.G.; E-103, G-31, SP.09-2, SP.09-3
Pereira, G.H.N.; U-24
Pereira, H.J.V.; K-11
Pereira, H.M.; N-122
Pereira, I.B.; H-23
Pereira, J.H.; N-85
PEREIRA, J.L.; H-49
Pereira, JS; N-109
Pereira, L.F.; E-55, S-29, S-30
PEREIRA, L.M.; E-129
Pereira, L.M.M.B.; SP.02-3
Pereira, L.O.R.; D-19, T-69
Pereira, M.B.M.; G-74
Pereira, M.C.; N-131
Pereira, M.D.; T-44, T-5, T-51
Pereira, M.G. (H1); M-53
Pereira, M.G. (H2); E-70
Pereira, M.H.; D-29
Pereira, M.L.; C-42
Pereira, M.L.S.; B-46, C-34
Pereira, M.S. (H1); M-14, M-48, M-64, SP.10-3
Pereira, M.S. (H2); H-46
Pereira, M.S.A.; M-20
Pereira, P.R.G.; S-36
Pereira, R. M.; P-19
Pereira, R.A.P.; L-56
Pereira, RV; G-58
Pereira, S.F.; R-49, R-56
Pereira, T.C.; C-17
Pereira, W.O.; M-30
Pereira,D.R; U-4
Pereira,F.Z; M-87
Pereira-Lima, Z.; H-46
Peres T.V.; D-75
Peres, M.F.S.; H-73
Peres, P.; L-125, L-127, L-128, N-111, N-35
Peretti, T; C-51
Perez, D.; K-23
Perez, G.; SP.19-1
Pérez-Martinez, G.; H-12
Perini, P.; E-75
Perottoni, J.; T-34
Perovano Filho, N.; H-99
Perry, M.L.S.; R-17, R-22, R-23, R-36
Pertinhez, T.A.; N-180, N-7, S-54
Peruchi, J.; I-1
Perussi, J.R.; H-108, U-14
Pesquero, J.B.; H-40, N-136, S-9
Pesquero, J.L.; H-40
Pessini, S.; E-27
Pessoa, C; N-124
Pessoa-Pureur, R.; R-31, R-33, R-34
Pessolani, M.C.V.; F-55, F-57
Pessoto, F.S.; A-8, N-141
Petkowicz, C.L.O.; M-49, M-74, M-75
Petri, D.F.S; Q-7
Petrs-Silva, H.; B-2, SP.21-3
Pettenuzzo, L.F.; R-14
Piccoli F S; B-10
Piccoli,F.M; B-37
Pierangeli, S.; SP.10-1
Pietro, R.C.L.R.; H-70
Pigossi, F.T; N-18, S-11
Pigozzo,R; L-115, L-79
Pilla, C. M. P.; H-70
Pilla, P.D.; R-30
Pilon, A.M.; D-47, D-53
Pilon, F.M.; D-47, D-53, D-54
Pimenta Filho, A. A.; U-4
Pimenta Jr., A.A.; N-25
Pimenta, A.M.C.; V-12
Pimenta, D.C.; B-24, B-42, S-52
Pimenta, P.F.P.; H-41
Pimentel C.C.; D-60, D-62
Pimentel, E.R.; U-15
Pimentel, J. C.; H-32, N-45
Pimentel, M.C.B.; E-4, H-117, H-47, L-48, L-61
Pinhal, M.A.S.; M-6, M-71, SP.06-6
Pinhão LP; P-29
Pinhati-Silva, A.C.O.; D-12
Pinheiro, A.M.; R-12, R-13, R-60
Pinheiro, A.S.; N-47
Pinheiro, C.M.; L-108
Pinheiro, DG; B-18
Pinheiro, G.L.; E-56
Pinheiro, M.P.; N-68
PINHO, T. A.; K-11
Pinto, A.C.; I-16, I-27
Pinto, A.F.M.; L-68, S-21
Pinto, E.; T-14, T-16, T-4, T-80, U-25
Pinto, F.C.R.; N-119
Pinto, J.R.; N-131
Pinto, M. O.; E-115
Pinto, M.R.; M-39, M-60
Pinto, M.S.T.; E-51, E-80, E-87, E-9
Pinto, V.P.T.; R-49, R-56
Pinto-Silva, F.E.; U-2
Piovesan AR; N-90
PIOVESAN, N.D.; E-115, E-41
Pires Jr, O.R.; S-8
Pires VMP; L-107
Pires, C.V.; U-17, U-8
Pires, M.G.S.; L-67
Pires, R. S.; T-69
Pires, R.F.; B-46, C-34, C-42
Pisa, G.; F-80
Pitlovanciv, A.K.; F-47
Pitta, I. R.; P-20
Pizauro, J.M.; L-2, L-31
Pizzatti, L.B.; B-48
Pizzo, A.B.; JT.18-5
Pizzolatti, M.G.; C-41, I-25
Pohl P. C.; D-65
Pohl, P.C.; D-71
Poletti, E.F.; H-80, S-38
Pólgar, L.; L-100
Polikarpov, I.; N-137, N-157, N-48, N-49, N-51, N-54, N-88, SP.15-3
Politi, V.; N-29
Polizeli, M.L.T.M.; L-104, L-74, L-97
Polizello, A.C.M.; F-79, T-68
Polonelli, L.; S-2
Polycarpo, C.R.; F-71
Pombeiro-Sponchiado, S.R.; G-41
Pomin, V.H.; M-14
Pompermayer, P.; E-17, E-7
Pompilho, W.; D-76
Ponce-Soto, L.A.; N-113, N-160, N-163, S-49
Ponsoni, E.J.; L-135
Ponte-Freitas, A.L.; M-79
Pontes, E.G.; D-2
Pontes, E.R.; B-1
Pontes-Filho, N.T.; C-53, H-18
Porcionatto, M.A.; B-13, M-23, R-2, R-40
Portaro, F.C.V.; B-55, C-45
Portela, L.V.C.; R-37, R-39, R-52
Portella, R. L.; T-34, T-39, T-40
Porto, A.L.F.; H-105, H-29, H-72
PORTO, C.S.; H-105
PORTO, L.M.; F-25, F-47, V-5
Porto, T.S.; H-72
Portugal, R.V.; N-51
Possari E.P.M.; C-44
Posser, T.; R-10, R-58, T-19
Postal, M.; L-118
Pouza JEP; S-31, S-32
Poy, C.D.; N-149
Prado, F.M.; P-9, T-21, T-45
Prado, I.M.R.; T-24
Prates, M.V.; S-17, S-26, S-28
Prestes, P.R.; D-83
Prevelige, P.E.; N-138, N-179
Previato, J.O.; F-34, N-159, N-31, N-44, N-92, P-29
Prima, C.C. P.; A-16
Priscila Afonso de Faria; T-56
Prosdoscimi, F.; V-1
Proti, P.B.; S-6
Puccia, R.; U-1
Puhl, M.T.; H-100
Pujatti, P. B.; S-48, U-12
Puntel, R. L.; I-20
Puntel,O.G.; I-20
Pupo, M.T.; SP.08-4
Purgatto, E.; E-107
Puzer, L.; L-80

Q

Quaggio, R.B.; E-102, E-116, E-25
Quaresma, A.J.C.; G-22
Queiroga Brito, S.; F-24
Queiroz, A.F.S.; N-30, N-52
Queiroz, E. M.; H-37
Queiroz, F. B.; H-19
Queiroz, J.W.; M-30
Queiroz, K.S.; E-2
Queiroz, M.V.; G-38, G-78, G-79
Queiroz, V.T.; E-117
Queissada, D.D.; H-99
Quiapim, A.C.; E-124, E-126, E-37, E-38, E-67, E-76
Quintero, H.C.C.; O-3
Quintilio, W.; H-68, H-77, H-93

R

Rabelo, C.C.P.; N-62
Raddi, M.S.G.; T-24
Radi, R.; JT.18-4
Rahal, P.; F-22
Ralay-Ranaivo, H.; CF.04
Ramada, J. S.; H-112
Ramos, A.C.; A-14, E-60
Ramos, A.S.P.; A-27, G-24, G-29
Ramos, C.H.I.; F-59, G-14, G-19, G-48, G-6, JT.18-2, N-123, N-157, N-16, N-64, N-77, N-86
Ramos, C.R.R.; H-8
Ramos, H.J.O.; F-45
Ramos, I. B.; D-43, D-5, D-56
Ramos, M.V.; E-79, N-124
Ramos, P. D.; G-3
Ramos, R.A.; L-2
Ramos, S.A.F; H-32
Ramos, V.L.; H-64
Ramos, V.S.; D-38
Rampin, M. A.; H-34
Rangel, A.L.S.; F-54
Rangel, D.A.; SP.13-4
Rangel, H. M. A.; N-99
Rangel, L.C.; A-36
Rangel, L.P.; A-19, A-4
Rangel, M.; E-87
Rangel, S.M.; G-51
Ravanat, J.L.; CF.21
Raw, I.; H-68, H-85, H-93
Real-Guerra, R; L-116
Rebello, M.A.; Q-1
Reboredo, B. M.; N-1
Rebustini, I.T.; J-22
Rech, V.C.; C-48, R-51
RECK Jr., J.; D-40
Recouvreux, D.O.S.; F-47, V-5
Reese, L.; F-20
Rêgo J.B.M. Moacyr; C-52

Rego, F.G.M.; F-51, F-70
Reicher, F.; M-74, M-75, SP.19-4
Reis, A.P.; L-117, L-42
Reis, C.V.; D-1, L-37, SP.02-2
Reis, C; C-32
Reis, D.T.C.; U-22
Reis, E.M.R.; B-1, B-14, B-20, B-23, B-27, B-40, B-41
Reis, F.C.G.; L-63
Reis, K. C. P,; G-78
Reis, L.F.L.; SP.12-2
Reis, M.B.A; E-131, E-71
Reis, P. A. B.; E-32
Reis, P. A.; P-2
Reis, R.A.; G-27
Reis, R.I.; N-136
Remuzgo, C.; S-33, S-47, S-50
Renard, G.; H-52
REQUIEL, B. S.; M-47
Resende, R.R.; R-18, R-25
Resende, V. M. F.; N-14
Resende; E-131
Retamal, C.; A-46, F-23, F-9, G-77, U-26
Rettori, D.; T-15
Rettori, M.M.; L-4
Reynaldo, D.P.; N-130
Rezende J.R.; N-145
Rezende RM; M-48
Rezende, A.A.; I-1
Rezende, G.L.; D-21
Rezende, L.A.; I-1
Rezende-Neto, JM; L-13, L-50
RGCoelho; N-133
RIBEIRO E SILVA, F. F.; S-13
Ribeiro KB; B-12
Ribeiro S F F; E-5
Ribeiro, A.S. (H3); A-31
Ribeiro, C.A.J.; R-4
Ribeiro, C.C.; A-13
Ribeiro, C.S.; R-12
Ribeiro, D.; G-2
Ribeiro, D.C.D.; E-124, E-126, E-38, E-76
Ribeiro, E.S.; E-81
Ribeiro, F.S.; C-6
Ribeiro, J.B.; G-79
Ribeiro, J.M. (H1); E-87
Ribeiro, L. C.; I-17, R-38
RIBEIRO, M.C.P.; T-63, T-75
Ribeiro, M.G.L.; A-41
Ribeiro, M.L. (H3); F-57
Ribeiro, N.V.; L-53
Ribeiro, P.H.; H-24
Ribeiro, R.E.B.; S-22
Ribeiro, S.P.; S-54
Ribeiro, V.B.; C-39, L-78
Ribeiro-Pinto, L.F.; C-6
Ribelatto, J.C.; N-164
Ribichich, K.; G-21
Ribon, A.O.B.; G-79
Ricachenevsky, F.K.; J-15
Ricardo A. Guedes; C-53
Ricardo Rodrigues Ciferri; D-69
Ricart, C.A.O.; C-7, E-33, G-52, N-168, N-170
Ricci CG; S-21
Ricci-Silva, M.E.; D-1
Richardson, M.; E-83, N-119, N-132, N-178
Rico, E.P.; L-26, L-52, L-82
Rigden, D.J.; E-64
Rigden, L.V.M.; E-64
Riger, C.J.; T-59
Rigo, L.U.; F-45, SP.05-2
Rigos, C.F.; N-6
Rincones, J.; G-31
Rioli, V.; L-101
Riposati A; T-29
Risoléo L.; H-93
Risoléo, L.; H-68
Riva, T.C.; F-75
Rizzatti, A.C.S.; L-74
Rizzo, L.V.; C-45
Roberto Fernández-Lafuente; H-69
Rocha, C.C.L.; H-99
Rocha, C.O.; J-5
Rocha, C.S.; E-10
Rocha, D. F.; A-26
Rocha, E.K.; C-14, C-15
Rocha, FR; E-10
Rocha, H A O; G-8, M-25, M-27, M-55, M-7, M-98, SP.06-2
ROCHA, I.V; M-54
Rocha, J.B.; T-30
Rocha, J.B.T.; C-43, I-20, L-134, R-59, SP.13-3, T-34, T-39, T-40, T-46, T-62, T-63, T-64, T-75, T-76, U-23
Rocha, M.E.M. ou Merlin, M.E.; A-42, A-47, T-61
Rocha, M.E.M.; A-2
Rocha, M.M.T.; B-11
Rocha, M.O.; H-94
Rocha, M.R. M.; N-1
Rocha, P.; H-46
Rocha, W. C.; G-36
Rocha-Leão, M.H.M.; H-2
Rodrigues A. F.; T-29
Rodrigues CV; U-9
Rodrigues, A. (H1); D-26
Rodrigues, A.C.P.; U-16
Rodrigues, A.L.S.; R-16, T-19
Rodrigues, AP; F-27, L-95
Rodrigues, C. M.; F-49
Rodrigues, C.A.; C-36
Rodrigues, C.R.; E-74, N-71, P-12, P-26, R-28, V-8
Rodrigues, C.S.; U-22
RODRIGUES, D. P; F-1
Rodrigues, D.R.F.; O-3
Rodrigues, E.G.; M-68, P-25, S-1, S-2
Rodrigues, F.A.; E-96
Rodrigues, G.R.; L-2
Rodrigues, J.C.; H-58, H-59
RODRIGUES, J.I.S.; K-18, U-11, U-7
Rodrigues, L.A.Z.; E-30
Rodrigues, M.; C-10, C-8, I-26, SP.23-2
Rodrigues, M.L.; M-51, M-61
Rodrigues, M.L.P.; L-136
Rodrigues, M.M.; E-15
Rodrigues, M.R.; T-73
Rodrigues, R. S.; K-9
Rodrigues, R.C.; H-112
Rodrigues, R.S.; U-11, U-7
Rodrigues, S.M.; E-118
Rodrigues, T.; A-8, N-141, T-45, T-53, T-56, T-9
Rodrigues, V. (H1); B-28, G-64, G-75
Rodrigues, V.M.; N-167, N-87
Rodrigues,E.L; H-45
Rodrigues,N.C.; N-85
Rodrigues,R.S; N-155
Rodrigues-Simioni, L.; O-1, S-49, S-7
Roesch, G.C.; L-119
ROLIM-SANTOS, H. M. L.; H-19
Roman, E.A.F.R.; I-19, I-21
Romano, E.; E-131
Romano-Silva, M.A.; SP.23-4
Roman-Ramos H; H-8
Romão LF; R-21
Romão, T.P.A.; D-3
Romeiro A.; F-34
Romeiro, L.A.S.; H-58
Romeiro, R.S.; E-104, S-36
Rondeau, G.; SP.12-3
Ronsein, G.E.; T-20
Rooney, R.J.; F-28
Roos, D. H.; T-62
Roque-Barreira, M.C.; M-3
Rosa Jr., de V.E.; E-17
Rosa, A.L.; L-31
Rosa, D.S.; M-3
Rosa, J.C.; F-22, G-17, M-3, SP.05-3, U-17, U-8
Rosa, M.C.P.; F-69
Rosa, M.S.; F-41, N-169
Rosa, R.B.; JT.18-4, R-23, R-44
Rosa, R.M.; D-15
Rosa, T.G.; H-100
ROSEMBERG, D.B.; L-26, L-52, L-82
Rosseli, L. K.; F-73
Rossi, A.M.; H-2
Rossi, A.V.; L-106
Rossi, V.G.; D-46
Rossi-Bergmann, B.; L-13
Rosso, R.; P-17
Rossoni Jr, J. V.; T-50, T-66
Roth, D.M.; H-13
Royer, C.; B-50
Rozenfeld, J.H.K.; L-12
Rubatino, L. F.; S-23
Rubbo, H.; SP.01-2
Ruggiero Neto, J.; S-16, S-5, U-24, U-28
Rui, E.; F-28, F-33
Ruiz, JC; G-17, SP.08-2
Ruller, R.; N-5, N-50
Rumjanek, F.D.; B-47, G-43
Rumjanek, V.M.; C-23, U-2
Russo E.S; H-112
Russo, M.; I-23, SP.21-2
Ruthes, A.C.; G-27
Ruy, F.; G-20

S

Sá, L.A.; B-48, F-41
Sá, M.M.; L-39
Sá, R.A.; H-117, H-4, H-63, N-95
Saad, M.J.A.; I-19, I-21
Sabeh, L.P.B.; P-30
Sabino, K.C.C.; I-16, I-27
SADE, Y. B.; C-47, J-12
Sader, A.P.O.; F-63
Said, S.; H-24
SAIDEMBERG, D. M.; S-14, S-27, S-41
Saiki I; C-3
Salas, C.E.; E-86
Salbego, C.; R-30
Salcedo, J.R.; F-4, I-14
Saldanha-Gama, R.F.; S-10
Salerno AG; C-11, C-22
Salerno, A.P.; D-18
Salerno, V.P.; L-122, N-133, N-146, N-33
SALES, F. P.; S-14, S-27
Sales, M.P.; M-94, N-30, N-52
Salgado MCO; N-140
Salgado, I.; A-2, G-31
Salim, A.C.M; B-12
Salla, M.F.S.; E-115
Salles JB; L-62
Salles, C.M.C.; L-13, L-50, L-62, N-7
Salomão, r.; T-73
Salotti, J.; J-22
Samarão, S.S.; A-46
Sampaio, D.A.; H-2
Sampaio, M.U.; E-106, E-13, E-16, E-77, E-78, E-93, E-94, L-132, L-72, L-76
Sampaio, S.V.; H-17
Sampaio, T.B.M.; M-57
Samuels, R.I.; D-72, D-73, F-8
Sanches, D.; N-82
Sanches, M.; N-54
Sanchez, E.F.; L-7
Sanchez, M. A. A.; H-108
Sandos, C.X.; B-3
Sandri, S.; I-23
Sant´Ana, C.D.; H-17, H-43, H-44, L-25, N-108
Sant´Anna, O. A.; S-52
Santa-Catarina, C.; E-33
Santacruz, C.P.; N-173
Santa-Izabel AA; L-133
Santana, J.M.; G-52
Santana, L.A.; E-15

Índice de Autores

Santana, M.A.; N-128
Sant'Ana, R. C. O.; U-17
Santana, R.C.; U-8
Sant'Anna, O.A.; B-55, C-45, H-77, N-65
Santelli, R.V.; D-24
Santiago, L.J.M.; E-46, E-69
Santiago, P. O.; H-96
Santiago, P.S.; Q-12
Santiago, V.M.J.; F-27
Santomauro-Vaz, E. M.; E-77, E-93
Santoro, M.M.; D-63, E-104, H-90, N-128, S-36, U-9, V-12
Santos A.Q.; R-31, R-34
Santos I S; E-48, E-5
Santos LX; C-52
Santos R F; G-34
Santos, A.A.; E-109, E-26, E-56
Santos, A.C. (H2); T-24, T-9, U-20
Santos, A.F.S.; H-31
Santos, A.L.S.; G-30, G-44, G-65
Santos, A.P.; D-63
Santos, A.R.D.; B-10
Santos, A.S. (H2); D-30, D-31
Santos, A.V. (H1); V-9
Santos, A.V. (H2); F-8
Santos, A.X.S.; M-37
Santos, B. S. dos; C-28, I-8, K-4, U-4
Santos, B.V. dos; H-91
Santos, C.A.; E-88
Santos, C.M.; D-75
Santos, C.V.C.D; R-60
SANTOS, D.B. dos; T-64
Santos, D.S.; F-10, F-29, F-31, F-5, F-6, H-111, H-13, H-48, H-52, L-32, L-36, L-38, N-17, N-172, N-69, N-85, P-11
Santos, DV; H-111, H-13
Santos, E.A.; C-33, M-92, M-99, N-30, N-52, SP.06-2
Santos, E.L.; N-136, S-9
Santos, E.O; SP.05-4
Santos, H.L.; N-6
Santos, I.A.N.; C-46
Santos, J. I.; N-74
Santos, J.A.; U-11, U-7
Santos, J.C.; M-24, M-34
SANTOS, J.L.; F-66
Santos, J.L.R.; N-102, N-147
Santos, K. S.; N-86
Santos, K.; N-175
Santos, K.S.; L-98, N-14, S-27
Santos, L. C. F.; L-57
Santos, L. E. R.; H-54
Santos, L.D.; L-98, N-14, S-27
Santos, L.L.; M-10
Santos, L.O.; G-30, G-44
Santos, M.A.M.; N-137, N-48, N-51, N-88, SP.15-3
Santos, M.C.B.; C-14, C-15
Santos, M.F.; N-105, SP.05-4
Santos, N.D.L; H-4, H-63, N-95
Santos, N.F.; K-15, K-5, U-19
Santos, N.P.; H-18, H-21
SANTOS, P. C.; L-114
Santos, P. H. A.; E-48
Santos, P.O.; E-80
SANTOS, P.S.; R-32
Santos, PB; B-42, J-6
Santos, R. (H1); D-52
Santos, R. B. S.; H-57
Santos, R. M. S.; T-40
Santos, S.; H-26
Santos, T.G.; R-46, R-7
Santos, V. C.; H-39
Santos, V. G.; P-4
Santos, V.O. (H2); C-33, M-55, M-92
Santos, W.F.; JT.18-5
Santos,C.S.; T-45, T-53
SANTOS,D.B. dos; U-23
Santos,G.S.; P-22, R-20
Santos.M.G.L.; M-15, M-25, M-57
Santos-Magalhães, N.S.; H-18, H-19, H-21, H-25, K-24, N-43, N-8, P-21
Santos-Neto, L.C.; D-14, D-7, E-60
Santos-Silva, M. C.; P-17
Saraiva, L.M.; R-48
Saraiva, V.B.; P-29
Sarcinelli-Luz, B.S.L; M-77
Sardi, S. I.; F-2, V-11
Sari, R. S.; M-46
Sarkis, J.J.F.; C-39, L-49, L-78, R-15, R-52
Sartim, M.A.; N-132
Sartori, M.A.; K-11, K-18
Sarzedas, C.G.; N-156
Sasahara, R.M.; B-25
Sasaki, S.D.; D-10, D-11, D-62
Sassaki, G.L.; G-27, H-110, H-118, H-62, M-1, M-11, M-19, M-28, M-45, M-46, M-56, M-62, M-63, M-9
SATHLER, P. C.; E-74
Sato J.R.; B-29
Saturnino, A.C.R.D.; I-9
Saúde, A. C. M.; E-61, E-95
Savage, P. B.; P-25
Savegnago, L.; P-27
Saviani, E.E.; G-31
Savoldi, M.; E-67, G-45, G-9
Sayegh, R. S. R.; S-53
Sbrogio-Almeida, M.E.; H-14
Schafer, D.A.; CF.12
Schechter, M. C.; F-40
Schenkman, R.P.F.; H-15, H-26
Schenkman, S.; B-61, D-59, N-180, SP.11-2
SCHIAR, V.P.P.; T-64, U-23
Schmidt, A.L.; R-14
Schmidt, MA; F-39
Schmitt, FC; C-21
Schneemann, A.; N-79
Schoenfelder, T.; T-81
Schor, N.; B-37, B-39
Schreiber R; C-16, C-50
Schreiber, A.Z.; G-20
Schreier, S.; H-80, N-158, N-18, S-11, S-37, S-38
Schripsema, J.; E-39, F-54
Schuck, P.F.; R-22, R-23, R-33, R-41, R-43, R-44
SCHWAMBACH, J.; E-103
Schwanke, R. C; H-48
Schwarcz, K.; E-20, SP.22-4
Schwarcz, W.D.; N-79
Schwartz, C.A.; S-43
Schwartz, E.N.F.; S-13, S-8
Schweigert, I.D.; R-36
Schwendeman, S.P.; CF.22
Schwier, E; G-45
Scofano, H.M.; A-16, A-31, A-32, E-66, N-115, N-24
Scussiato, K.; JT.18-4, R-19, R-29
Sé, A.B.; K-1, K-6
Seabra, A.B.; J-19
Sebben, A.; S-22, S-44
Sebollela, A.S.; R-27
Secches; C-8
Segovia, L.; SP.04-3
Seidinger, A.L.O.; C-38
Seixas, A.; L-121
Seixas, A.Q.A.; B-5
Seixas, D.F.; SP.05-2
Seki, H. A.; N-166
SELBACH, B.P.; P-11
Selig AM; N-121
Selistre-de-Araujo, H.S.; N-22, N-29
Semedo, P.; M-71
Senff-Ribeiro, A.; P-23
Senger, M.R.; L-26, L-52, L-82
Senna, J.P.M.; H-13
Senna, R.; D-57, E-43
Serpa, V.I.; N-76
Serra FBS; I-26
Serrato, R.V.; M-11
Sforça, M.L.; N-180
Sgaravatti, A.M.; R-42
Sgarbi, M.B.; R-42
Shakhnovich, E. I.; N-145, N-78
Shevchenko, A.; N-170, N-170
Shida, C.S.; L-44, N-92
Shishido, S.M.; J-19
Shizuka, N.E.; C-3
Siebra, E.A.; E-111
Sierakowski, M.R.; M-86, M-96
sigolo, CAO; T-17
Siloto, R.M.P.; E-14
Silva , C.G.; T-38, T-51
Silva A.C.; E-80
Silva DT; B-34
Silva FT; M-39
Silva Jr, P.I.; S-53
Silva Junior, J.G.; H-119, H-121, H-97
Silva LG; F-8
Silva Lima, M.; A-30, E-28, E-99, O-10
Silva MJR; F-8
Silva Oliveira M.; P-8, P-9
Silva, A. C. F.; K-18
Silva, A. R.; T-6
Silva, A. Vanessa; Q-13, Q-8
Silva, A.C.M. (H1); O-10
Silva, A.C\;; C-40, N-72
Silva, A.J.; F-66
Silva, A.L.C.; E-34
Silva, A.M.da; E-10
Silva, A.M.M.; R-13
Silva, A.O.; H-45
Silva, A.P.P; I-6, L-58
Silva, A.R.; R-13, R-60
Silva, C.A. (H4); C-12, C-28, C-37, I-8
Silva, C.C.P.; K-15
Silva, C.H.T.P.; N-121
Silva, C.L.; O-3
Silva, C.M; U-7
Silva, C.P.; D-67, D-72, D-73, D-74, D-75, D-9
SILVA, CFS; M-47
SILVA, CLA; N-37
SILVA, D.F.; L-18
Silva, D.O. (H2); E-58
Silva, D.P.; N-75
Silva, E. F.; N-99
Silva, E.D. (H2); H-121
Silva, E.F. (H2); P-23
Silva, E.F.; M-60
Silva, E.H.; H-80
Silva, E.O.; D-49
Silva, F. D.; S-50
Silva, F.E.; A-13
Silva, F.M.; N-16
Silva, F.M.B.; N-112
SILVA, F.M.F.; F-66
Silva, F.O.C.; K-2, K-22, K-3
Silva, F.R.; M-21
Silva, F.R.F.; M-25, M-57
Silva, F.R.M.B.; B-50, C-41, I-25, T-36
Silva, F.S.Q.; H-97
Silva, F.V.; C-31
Silva, G.M.; L-17, T-13
Silva, G.P.; D-26
Silva, G.V.J.; M-40
Silva, I.; E-124, E-67, E-76
Silva, I.D.C.G.; N-109
Silva, I.R.; M-40
Silva, J. T.; F-54
Silva, J.C.; L-134, T-76
Silva, J.F.; A-36
Silva, J.H.S.; S-36
Silva, J.L.; F-13, F-35, F-36, F-37, N-179, N-3, N-37, N-46, N-79, N-82, Q-3
Silva, J.M.C.; L-27
Silva, J.R.; D-76, D-77
Silva, J.T.; F-1, F-27
Silva, JC; B-40, K-11, K-18
Silva, L.B.; E-88
Silva, L.B.C.; E-60

Silva, L.C.F.; M-13, M-17, M-41
Silva, L.M. (H2); H-41
Silva, L.P.; N-20, N-97, S-3
Silva, L.R.; E-37
Silva, L.T.P.; B-31
Silva, LAO; L-84
Silva, M. C. C.; N-42
Silva, M. E.; T-49, T-50, T-66
Silva, M. F.; A-19
Silva, M. I.; N-165
Silva, M.A.P.; E-84
Silva, M.B.R.; C-12, H-32, N-45
Silva, M.C.C.; I-27
Silva, M.C.P.; D-78
Silva, M.D.C.; N-57
Silva, M.F.G.F.; SP.08-4
Silva, M.P.C.; H-116, H-117, H-27, H-5
Silva, M; T-49, T-50, T-66
Silva, MC; R-38
Silva, N.H.; H-116, H-117, H-18, H-21
Silva, NG; G-57
SILVA, R. V.; R-46
Silva, R.A.; L-71
SILVA, R.A; H-47, L-48, L-61
Silva, R.G. (H2); H-111, H-48
Silva, R.T; K-19
Silva, S.S.; H-33
Silva, Sergio Silva; O-7
Silva, T. C. L.; N-117, N-153
Silva, T.G.M.; E-96
Silva, T.L.da; E-90, L-46, L-99
Silva, T.R.; C-11
Silva, V. A.; N-12
SILVA, V. C.H.; L-85, L-86, L-87
Silva, V.C; D-33
Silva, V.D.A.; R-13
Silva, W.; D-36, E-16
SILVA,T.M; L-109
Silva; E-131, E-58
Silva-Costa L.; I-6, L-58
Silva-Filha, M. H. N. L.; D-3, D-58
Silva-Filho, M.C.; E-17, E-7, SP.22-3
Silva-Jr, F.P.; G-18, N-58, N-7, SP.20-4
Silva-Jr, W.A.; B-10, B-18, B-5
Silva-Lucca, R.A.; E-13, E-92
Silva-Neto, M.A.C.; B-21, B-26, D-37, D-49, D-57, E-43, G-11, G-33, G-60, G-61, J-2, L-41, N-143
Silva-Silva, A.M.; N-100, N-63
Silveira, A.B.; G-11, L-41
Silveira, C. K. B.; R-17
Silveira, C.B.; F-68
Silveira, G. P.; L-39
Silveira, I. D.; T-46, T-62
Silveira, L.B.; H-44, L-25
Silveira, M.S.; SP.23-3
Silveira, T.R.; R-37
SILVEIRA, W. S.; G-54
Silveira,C.B.M; M-24, M-34
Sílvia, C.; A-14
Simão, A.M.S.; L-31
Simão, R.C.G.; F-3
Simão, T.A.; C-6
Simão,F.; R-30
Simas, F.F.; M-20, M-42, M-65
Simeoni, L.A.; N-137, N-88, SP.15-3
SIMIONI, Andreza Ribeiro; M-88
Simões, A.C.Q.; E-10
Simões, I. V.; E-82
Simões, ZLP; SP.16-4
Simões-Barbosa, A.; G-37, H-58, H-59
Simonetti, A.C.; H-18, H-21
Simon-Giavarotti, K.A.; T-3
Simonin, V.; E-43
Simons, S.M.; B-45
Siqueira, A. M.; I-27
SIQUEIRA, C. M.; T-24
Siqueira, F. P.; E-9
Siqueira, M. P.; H-19
Siqueira, P. F. M.; U-9
Siqueira-Junior, C.L.; E-35, E-44, E-47
Sitta, A.; C-19
Siviero, F.; D-24
Skaf, M.S.; SP.15-3
Smaili, S.S.; E-94
Small IA; B-1
Smetana, J H C; N-125
Smiderle, F.R.; M-70
Smith, R.E.B.; E-121, E-128
Smith, T.J.; F-13
Snutch, T.P.; SP.23-1
Soares F; B-12
Soares FA; B-10
Soares, A.A.; A-45
Soares, A.M. (H1); H-17, H-43, H-44, L-25, N-108, N-74
Soares, A.M.S.; E-125, E-24
Soares, C.O.; T-37
Soares, F.A.; SP.13-3
Soares, J.C.M.; I-20, T-30, T-46
Soares, M.A. (H2); S-48, U-12
Soares, M.A.M.; D-44
Soares, M.J.; D-54
Soares, M.R.; F-13, F-21, F-60, F-67, S-42
Soares, S.M.; M-35, U-20
Soares, T.S.; D-46, D-85
Sobral, A.P.V.; C-52
Sobreira, A.C.M.; A-40, A-45, A-49
Sodré, C.L.; G-39
Sogayar, M.C.; B-14, B-24, B-25, B-27, B-29, B-32, B-33, B-41, B-42, B-43, B-62, B-8, J-15, J-3, J-6, J-7, T-43, T-78
Sola-Penna, M.; BJC-1, I-13, I-2, I-4, I-5, I-6, L-21, L-58, L-66, L-69
Soletti, R.C.; R-16, R-8
Soll, D.; CF.20, F-71
Sombra, A.S.B.; M-79
sondermamm; B-48
Sophia, R.A.; D-19
Soraggi, C.L.; J-19
Sorenson, M.M.; L-122, L-58, N-130, N-131, N-133, N-146, N-33
Sorgine, M.H.F.; D-65, D-71, F-18, F-4, N-166
Soriani, F.M.; A-9, G-10, G-7
Sotero-Martins, A.; H-75
Sousa F. L.; U-10
Sousa Filho, J.F.; L-27, L-34
Sousa, C. A.; U-7
Sousa, C.S.; E-117
Sousa, D.O.B.; E-111
SOUSA, E. M.; E-23
Sousa, F.J.R.; F-7, N-169
Sousa, F.Y.M.; A-40, A-45
Sousa, I.P.J.; F-35
SOUSA, J. C.; C-21
Sousa, J.M. (H4); N-101
Sousa, J.M.A.; C-31
Sousa, K.M.O.; N-154
Sousa, L.O.; B-49
Sousa, M.V.; C-7, E-33, G-52, N-168, N-170, N-20, S-13, S-20, S-22, S-43, S-44
Sousa, R.S.; A-23
Sousa, S.C.; SP.01-3
Souto, A.A; C-32
Souza A. O.; L-20
Souza F G; I-26
Souza FHM; L-55
Souza Júnior, M.T.; N-129
Souza R.R.; A-35
Souza Silva\; Souza-Silva,F.; K-17
Souza, A. A. de; SP.09-1
Souza, A. F.; E-39
Souza, A.A de; F-49
Souza, A.C.S.; P-4
SOUZA, A.M.T.; P-12
Souza, A.P.; F-73
Souza, B.M.; L-98, N-14, S-14, S-27, S-41, S-5
SOUZA, C. A. de; P-17
Souza, C. G.; R-17
Souza, C.F.; G-11
Souza, C.G.M.; L-75, L-89, L-96
Souza, C.S. (H2); N-55
Souza, C.S. (H3); R-13
Souza, C.S.; N-55
Souza, C.T. (H2); C-4
Souza, D.B.; C-44
Souza, D.F.; L-19
Souza, D.G.; R-16, R-8
Souza, D.H.F.; N-29, N-80
Souza, D.O.; R-37, R-39, R-46, R-52, R-53
Souza, D.S.L; D-74, E-65
Souza, E.M.; F-15, F-17, F-38, F-45, F-48, F-51, F-52, F-70, F-76, F-80, N-76, SP.05-2
Souza, F.C.; N-18, S-11
Souza, G.A. de; SP.05-3
Souza, G.M.; E-10, G-16, SP.22-1
Souza, H. S. P.; M-21
Souza, ICC; J-18
Souza, J. E. O.; G-33, G-65
Souza, J.E.G.; H-32
Souza, J.M.; B-15
Souza, L. A. R.; M-25
Souza, L. A.; E-53
Souza, L. M.; T-65, T-80
Souza, L.C.; H-6
Souza, L.F.; I-22, L-129
Souza, L.M.; C-33, M-28, M-46, M-81, M-94
Souza, M. O.; A-31
Souza, M.C.R.; G-8
Souza, M.F.; N-31
Souza, M.L.S.; M-17
Souza, M.T. (H1); E-78
SOUZA, N. A. de; P-17
Souza, O.N.; L-36, SP.20-2
Souza, P. P. C.; U-27
Souza, P.C. (H2); N-149
Souza, P.R.E.; H-120, H-66, U-13
Souza, R.A.; G-39
Souza, R.R.R.; J-17, L-102, L-106
Souza, S.E.G.; S-37
Souza, S.J.; V-13
Souza, S.R. (H1); H-1, H-3, H-32, N-45
Souza, T. M. L.; A-28, A-29
Souza, T.F.; E-125, E-24
Souza, T.L.F.; N-46, N-82
Souza, T.M.S.; E-50, E-61, E-95
Souza, T.P.; Q-6
Souza, T.S.; J-3
Souza, VRM; F-40
Souza,A.S.; D-29
Souza,D.F.; R-3, R-37, R-53
SOUZA,SARA; T-23, T-82
Souza; D-67
Souza-Araújo, F.V.; H-25
Souza-Filho, J.F.; SP.06-2
Souza-Santos, P.; A-32, E-66
Spadaro, A.C.C.; F-79
Spector, N.; V-10
Sperandio-da-silva, G.; N-159
Spisni, A.; N-180
Spitz, G.A.; I-6
Squina F M; G-19
Sredni, ST; B-10
Srougi, M.; M-100, M-59
Stábeli, R.G.; H-17, H-44, L-25, N-108
Stahl, J.A.; U-21
Stambuk, B.U.; H-109, H-60, H-61, I-11, I-28
Stancanelli\; M.; U-3
Stanisçuaski, F.; L-116, L-118, N-90
Stauffer, F.J.S.; F-40, N-169
Steffens, M.B.R.; F-45, F-70, F-76, SP.05-2
Steinberg, M; M-80

Stelling, M.P.; M-29
Stevani, C.V.; SP.14-4
Stiebler, R.; D-23
Stimamiglio, M.A.; J-4, J-9, R-49
Stocker, A.J.; D-44
Stoppa, G.R.; I-19, I-21
Straus, A.H.; E-78, M-89, M-97, O-11, O-4, O-5
Stroeh E.; R-5
Stuart D.; N-65
Sturm, N.; SP.16-3
Suarez, ER; M-71
Suemasu, C. N.; D-26
Sugai, J.K.; K-12
Sugimoto, T.R.; T-10
Sumikawa, J.T.; E-13, E-16
Susin, M.F.; F-3
Suzan D. Santos; H-116
Suzuki, E.; L-3, M-5
Suzuki, R. S.; H-110
Szpoganicz, B.; C-41

T

Tabak, M.; P-8, P-9, Q-12
Tada, S. F. S.; F-73
Taga, R.; B-4
Tagliari, L.; M-89
Tagliari, P.D.; E-50, E-61, S-56
Tahara EB; T-28
Tajara EHS; N-121
Takahashi, H.K.; E-78, M-89, M-97, O-11, O-4, O-5, SP.06-4
Takata, C.S.; H-77, Q-13, Q-8
Takeda, A. A. S.; N-74
Takeda, K.I.; B-51
Takeda, L.H.; E-77
Takita, M.A.; F-49, SP.09-1
Tamaki, F.K.; D-6, D-68
Tambourgi, D.; B-55, N-106
Tanaka, A.K.; M-97, O-4
Tanaka, A.S.; D-10, D-11, D-59, D-60, D-62, N-120, N-126, S-50
Tanaka-Azevedo, A.M.; D-60
Tanizaki, M.M.; H-14, H-15, H-26
Tanner, W.; CF.05
Tardy, M.; CF.16, R-12, R-60
Targino, M.R.; D-29
Targon, M.L.P.N.; SP.09-1
Targueta, C.P.; E-41, E-45
Tárnok, A.; CF.09
Tasca, C.I.; R-1, R-21, R-46, R-5, R-7
TAVANO, O. L.; L-88
Tavares, C.; N-76
Tavares-do-Carmo; D-29
Tedesco, A.C.; M-88, T-83
Teixeira L.A.C.; M-77
Teixeira, A.R.L.; CF.17, G-52
Teixeira, D.M.A.; SP.19-4
Teixeira, E.C.; F-61, F-65
Teixeira, E.H.; R-49, R-56
Teixeira, F.K.; E-40
Teixeira, F.M.; N-30, N-52
Teixeira, F.R.; E-64, K-11, S-36
Teixeira, K.R.S.; SP.05-4
Teixeira, L.G.D.; S-39
Teixeira, P.C. (H2); N-40
Tejada, E.C.S.; G-28
Teles, L.M.B.; C-40, C-7
Temperini, M.L.A.; S-33
Tempone, A.J.; F-57
Tendler, M.; H-8
Tentor, J; C-50
Teodoro, C.E.S.; A-12, A-26, A-46
Teodoro, L.G.V.L.; L-136, L-77
TERADA, R. K.; C-44
Terenzi, H. (H2); N-76, P-31, R-8
Terenzi, H.F. (H1); G-32, G-53, G-59, L-104, L-74, L-97, N-101
Termignoni, C.; D-40, D-84, L-121, L-60, S-21
Terra, RMS; N-19
Terra, W.R.; D-20, D-41, D-50, D-51, D-6, D-68, D-80, D-81, D-9, L-23
Terrão, M. C.; G-32
Tersariol, I.L.S.; C-46, J-5, L-10, L-101, L-113, L-29, L-8, L-91, SP.06-5
Tessari, C.M.; L-99
Tessmann, D.J.; H-83
Tessutti, L.S.; K-22
Tessutti,LS; K-2, K-3
Thais, M.E.; R-7
Thalhammer, S.; F-20
Thays, S. A.; F-54
Thedei Jr, G.; T-83
THEODORO TR; M-71
Thiemann, O.H.; G-26, G-36, G-73, L-70, N-25, SP.08-4, SP.16-3, V-3
Thomaz R.R.; L-64
Thomazella, D.P.T.; G-31
Thomé, C.H.; G-46
Tiago Charão de Oliveira; N-151
Tiago Leite; I-5
Ticli, K.F.; H-17
Tiera, M.J.; L-128
Tiera, V.A.O.; L-128
Tigre, D. M.; F-2
Timm, M.I.; K-14
Tiné, M.A.S.; SP.19-3
Tinoco, L.W.; N-1, N-158
Tischer, C.A.; M-81
Todeschini, A.R.; F-34, N-159, N-31, N-44, N-92
Tofoli F.; N-32
Togawa, R.C.; N-129
Toledo, M.S.; L-3, M-5, M-89
Toma, L.; L-115, L-79, M-32, M-6
Tomazella, G.G.; N-152
Tonin, A.; R-22, R-23, R-44
Tonon A.P; E-112
Tonso, A.; G-24
Tormena, C.F.; S-14
Tornieri, P.H.; B-39
Torquato, R.J.S.; D-60, D-62, M-23
Torres, FR; N-174
Tôrres, J. A.; V-17
Torres, M.A. (H1); T-65
Torres, M.A. (H2); T-80
Torres, R.A.; U-22
Torres, T.E.P.; I-24
Torri, G.; M-55, M-92, M-94
Torriani I.L.; N-10, N-123
Torriani, I.L.; F-73, N-169, N-64
Torsoni, M.A.; I-19, I-21
Tortora, V.; T-79
Tosi, L.R.O.; G-19
Tosta. C. E.; H-55
Tótola, A. H.; G-25, G-69, G-71
Tovar, A.M.F.; M-29, M-77, M-84
Toyama, M.H.; L-40
Tramontina, A. C.; R-35, R-36, R-53
Tramontina, F.; R-3, R-35, R-36, R-38, R-53
Travassos, L. R.; L-14, L-81, M-68, P-25, S-1, S-2, U-1
Travensolo, R.F.; F-11, F-12
Trentin, A.G.; J-11, J-13, J-21, J-4, J-9, R-1, R-10, R-58
Trevisan, M.T.S.; O-10
Trevisan, R.; T-19, T-48
Trevizano, L. M.; L-15, L-18
Trindade, D. F.; T-60
Trindade, E.S.; M-27, M-80, M-82, M-87, M-98, M-99
Trindade, V.M.T.; E-72, J-14, M-37
TriTryp consortium; CF.10
Trivella, D.B.B.; T-48
Trópia, M.J.M.; G-76
Trovatti, E.; H-22, H-7, H-86
Trovó, A.B.; N-121
Trujillo, C. A.; P-10, R-25, R-26
Tsujita, M.; SP.21-4
Tsuruta, L.R.; N-65
Tudella, V.G.; A-9, G-10, G-7
Tufik, S.; I-26, T-72
Turato, WM; T-68
Turchiello, R.F.; C-29
Turk, B.; L-80
Turque, A.S.; F-68

U

Uchôa, A.F.; D-67, E-16, E-51
Uchôa, H.B.; N-121, V-15
Ulbrich, A.; SP.21-2
Ulhoa, C.J.; H-50, H-56
Ullian, E.; E-10, E-17, E-7
Ulrich, H.; P-10, R-18, R-25, R-26, S-4
Unfer,T.C.; L-134, T-76
Uratani, J. M.; M-45
Ürményi, T.P.; E-35, E-47
Uyemura, S.A.; A-9, F-53, F-79, G-10, G-7, M-35, T-68, T-9, U-20

V

V.C.B., H-68, H-93
Valadares,I.T.; U-28
Vale Campos, M.G; H-90
VALENCIA, E. Y.; G-29
Valenga, F.; M-86
Valente, A.P.; M-14, M-16, M-33, M-53, N-107, N-116, N-117, N-154, N-156, N-158, N-41, N-47, N-59, N-67, Q-3
Valente, C; A-2, A-48
Valente, M.A.S.; E-108
Valente, R.C.; P-3
Valente, R.H.; F-55, N-110, N-135
Valente-Mesquita, V.L.; H-102
Valentim, A.C.; N-178
Valentini, S.R.; G-13, G-46, G-47, G-50, G-51, G-54
Valenzuela MD; J-7
Valero, V.B; B-13
Valle, D.; D-21
Valli, M.; H-7
Valverde, R.H.F.; A-41
Van der Straeten, D.; E-85
Van Eldik, L.J.; CF.04
Vand Sand; T-36
Vaneza R. Grippe; A-6
Vannier-Santos, M.A.; G-43
VARAGO,FC; H-90
Vargas, B.A.; R-42
Vargas, C. (H1); E-20
Vargas, C. S.; D-29
Vargas, C.R.; C-19, R-41, R-43
VARGAS, F.; T-64, U-23
Vargas-Rechia, C.G.; M-35
Vasconcellos, A.M.H.; D-13, D-30, D-31
Vasconcelos, A.B.; H-90
Vasconcelos, A.F.; M-69
Vasconcelos, A.S.; C-30, C-37, K-4
Vasconcelos, A.T.; SP.07-2
Vasconcelos, I B; N-69
Vasconcelos, I. B.; P-20
Vasconcelos, I.M.; E-111, E-122, E-23, E-73, E-97
Vasconcelos, L.R.S.; SP.02-3, U-13
Vasconcelos.M.L.; H-117
Vaslin, M.F.S; E-36
Vaz, A. C. Q.; N-46
Vaz, T.H.; B-54, N-148
Vaz,T.; M-78
Vedoy, C.G.; B-25
Veiga, S.S.; B-22, B-34, C-46, C-47, L-115, L-79, P-19, P-23, SP.06-3
Veja, N.; SP.19-1
Velarde, D.T.; B-58

3-Indice_autores.pmd 108 6/6/2005, 12:38

Velho,J.A.; C-4
Vellosa, JCR; T-27
Velloso, L.A.; C-4, I-19, I-21, SP.03-3
Velozo, E.; R-13, R-60
Veltri, T.; N-131
Venancio, T.M.; E-82, G-23
Venancio,J.B.; E-62
Vencio, R.N.Z.; B-20, E-10, G-16, SP.08-3
Vendite, D.A.; R-5
Ventura, J A; E-27
Ventura, J.S; N-66, P-28
Venturini, B. A.; S-26
Venuto, T.; H-41
Verbisck, N.V.; C-35
Vercesi, A.E.; A-21, A-35, C-22, C-38, C-4, E-11, G-20, L-64
Vercesi, AML; N-121
Verjovski-Almeida, S.; A-10, B-1, B-14, B-20, B-23, B-27, B-40, B-41, G-23, G-34, G-42, L-43, N-107
Verli, H.; M-18, M-44, N-19, N-93
Vernal, J; N-76, R-8
Vettore, A L.; B-10, B-5, N-80
Viana, A.G.; M-95
Viana, D.A; H-29, H-72
Viana, L.H.; E-121
Viana, P.A.; L-15, L-18
Vicente Crisostomo; F-18
Vicente, A.C.P.; E-35, E-47
Vicente, E.F.; N-18
Vicentini, R.; E-10
Vidal, C E; E-85
Videla, LA; SP.01-4
Vidigal, S.A.; N-26, T-13
Viegas, C. M.; R-22, R-41, R-43, R-44
Viegas, L.F.W.; H-33
Viegas, M.P.; D-61
VIEIRA DB; Q-10
Vieira JR, Adair; E-107
Vieira, D.S.; N-5
Vieira, E.D.; Q-2
Vieira, F.A.; E-8
Vieira, L.G.E.; SP.09-4
Vieira, L.M.; B-20
Vieira, M. D.; F-74
Vieira, M.L.; H-74
Vieira, M.N.N.; R-27
Vieira, P.C.; G-36, SP.08-4
Vieira, R.C.; A-4
Vieira, R.F.F.; N-154
Vieira, R.P.; F-75
Vieira, T. O; T-36
Vieira, T.C.R.G.; M-13, M-41
Vieira,S.M; L-63
Vieites, F. M.; L-94, U-16
Vieyra, A.R.; A-41, SP.17-3
Vigna, B.Z.; N-63
Vila, A.J.; SP.04-1
Vilanova, E.; M-26
Vilar, C. V.; SP.22-4
Vilegas, W.; T-24
Vilela, L.; V-12
Vilela, M.B.; E-13
Vilela-Silva, A.C.E.S.; M-10, M-16
Villa, L.L.; H-11
Villela, A. D.; H-52
Villela, C.G.; S-45
Villena SN; M-90
Vinagre, F.; E-20, SP.22-4
Vinha, G.G.; D-12
Visôtto, L.E.; D-47
Vitorelli, P.M.; E-124
Vitória, A.P.; E-121
Vitorino,M.M.F; E-101
Vivacqua, C.A.; C-33
Vivan, A.L.; F-10
Viviani, V.; D-64, N-103, N-60, N-91, SP.14-3
Von Dannecker, L.E.C.; B-16, B-9
Von Kruger, W.M.A; F-20, F-21, F-32, F-7, SP.05-4
Vovelle, F.; S-40
Vozári-Hampe, M.M.; E-72

W

Waclawovsky, A.J.; E-32
Wagner, C.; R-59
Wagner, R.; M-20, M-42, M-58, M-62, M-63, M-65
Wahlheim, D. O.; R-7
Wajner, A. (H1); B-46, C-34, C-42
Wajner, M.; C-19, C-48, JT.18-4, R-14, R-19, R-22, R-23, R-29, R-31, R-33, R-34, R-4, R-41, R-42, R-43, R-44, R-50, R-51
Waldemiro Gremski; P-19
Walker J.; G-72
Walz, R.; R-7
Wanderley, M.S.O.; H-18
Wang, N.; CF.12
Wang, Y; SP.12-3
Wannmacher, C.M.D.; C-48, R-14, R-19, R-22, R-23, R-29, R-4, R-41, R-42, R-43, R-44, R-50, R-51
Ward, R.J.; G-17, N-34, N-4, N-5, N-50, N-6
Wassem, R.; F-52, SP.05-2
Watanabe, M.M.; H-74
Watanabe, R.M.O.; L-72
Watterson, D.M.; CF.04
Webb, P.; N-137, N-88, SP.15-3
Weber, P.G.; L-38
Weinlich, R.; SP.21-2
Welsh, J.; SP.12-3
Wengert, M; P-29
Werlang, I.C.R.; F-5
Wermelinger, L.S.; S-42
Werneck D. A.; E-80
Werneck I; B-12
Whitaker, CVA; C-24
Wilhelm Filho, D.; T-36
Wille AC; B-22, B-34
Wilusz , J; B-6
Wilusz, CJ; B-6
Winck, F.V.; F-43, G-48
Wink, M.R.; L-119
Winter, C.E.; B-44, B-57, B-60, M-3
Winter, R.; N-3
Wodall, J P; F-16
Wofchuk, S.; R-53
Wondracek D. C.; C-43, R-59
Woranovicz-Barreira, S.M.; M-65
Wu, Y.; SP.15-1
Wulff, N.A.; E-18
Wyse, A.T.S.; C-48, R-14, R-19, R-22, R-23, R-29, R-4, R-41, R-42, R-43, R-44, R-50

X

Xavier da Silveira, E.; F-55
Xavier Filho, J.; D-67, E-114, E-16, E-80, E-81, E-82, E-87, E-88, K-10
Xavier, Caroline Addison Carvalho; G-8, M-15, M-25, M-57
Xavier, H. S.; H-31, H-35, H-4, H-63
XAVIER, ILGS; H-90
Xavier, L. S.; C-26
Xavier, L.P.; D-47, D-63
Ximenes, A.; D-37
Ximenes, N.C.A.; H-36
Ximenes, V.F.; L-135, L-95

Y

Yates, M.G.; F-45, F-50, F-51, F-52, SP.05-2
Yatsuda AP; G-62
Yokaichiya, D.K.; K-23
Yokosawa, J.; F-53
Yoneyama, K.A.G.; O-11
Yu, Q.; SP.12-3
Yunes, R. A; P-17, P-32

Z

Zago, M.A.; B-5, SP.05-3
Zaha, A; J-15
Zaini, P.A.; E-112
Zambuzzi, W.F.; B-4, C-13, J-7, L-46, L-71
Zamin, L.L.; R-30
Zamoner, A.; R-34
Zanardo Filho, A.; M-35
Zanata, S. M.; C-35, J-12, N-23, R-54, T-54
Zanatta, D.B.; D-66
Zancan, P.; I-2, I-4, L-66
Zanchin, N.I.T.; B-53, B-54, N-117, N-125, N-148, N-153, N-7
Zandoná, B.R.; R-42
Zandonadi; A-15
Zanella, C.A.B.; R-45
Zanelli, C.F.; G-51, G-54
Zanette, D.; Q-11
Zanette, D.L.; B-10
Zanetti, G.D.; E-72
Zanon, JP; H-73
Zanotta, L.C.; S-43
Zapella, P.D.A.; N-101
Zaro, M.A.; K-14
Zavan, C.; L-35
Zecchin, K.G.; C-38, C-4
Zelanis, A.P; N-66
Zeni, G.; C-43, P-27, T-64, U-23
Zerbini, F.M.; E-109, F-42
Zerbini, M.F.; E-26
Zibetti, R.G.M.; M-83
Ziegler, D.; R-38
Zilly, A.; L-85, L-86
Zingales, B.; SP.08-3
Zingali, R.B.; D-84, F-62, L-63, N-135, N-150, N-73, P-14, P-5, P-6, R-28, S-10, S-18, S-23, S-42
Ziulkoski, A.L.; M-37
Zottis, A.; L-39

3-Indice_autores.pmd 109 6/6/2005, 12:38

Errata 2004 – XXXIII Reunião da SBBq

M25 - **Extraction and Purification of Glycosaminoglycans of the Primitive Cordate *Styela plicata* and their Antithrombotic Activity Using Arterio-Venous Shunt Model**
Santos, J.C.; Mesquita, J.M.F.; Gandra, M. and Pavão,M.S.G

R65 - **Superoxide Dismutase Protects Human Gl-15 Glioblastoma Cells Against the Toxicity Induced by 1,2-Dihydroxybenzene**
Pereira, M. R. G.; De Oliveira, E. S.; De Villar, F. A. G. A.; Grangeiro, M. S.; Alcantara, J. F.; Silva, A. R.; Hughes, J. B.; Costa, S. L.; Costa, M. F. D.; El-Bachá, R. S.

V24- **Protein Identification Automation: A Script to Search Multiple Sequences Using a Single Program**
Oliveira, C.C.S.; Rodrigues, H.S.; Castro, M.S.; Fontes, W

3-Indice_autores.pmd 110 6/6/2005, 12:38