

CONTEMPORARY SCIENCE TOPICS APPLIED TO BIOTECHNOLOGY: DVD LECTURES USED IN UNDERGRADUATE CLASSES IN LARGE COUNTRIES

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At 2006, under Prof. Glaucius Oliva coordination, a series of lectures spoken by CBME researches and invited scientists on the Contemporaneous Science Topics Applied to the Biotechnology were produced as DVD media. These media were offered to our collaborators in the CBME education and dissemination nuclei at different Brazilian Universities. One of these nuclei is in the Biochemistry Department at Federal University of Ceará (Brazil), under coordination of Prof. A.L.P. Freitas. Prof. Freitas had an insight and used these media in her Biochemistry graduation class (Special Projects 3), where the students also acted on that activity. First the students watched the DVDs (one or two/student) and after that organized a power point presentation including literature actualized data. The presentation was presented to their classmates, followed by debate and also to under graduation students (Tutorial Education Program, MEC-Sesu-PET-Biologia). After two months we discussed this activity with the students, as well as other teaching strategies to be used by the teacher in the university. So, the graduation students were very enthusiastic with this methodology because Brazil is a very large country and the mobilizations of scientists to present specific lectures are difficulty because the long distance among Universities from all the regions of the country. The students' evaluation about this strategy was very much positive and ended with a question for us: "Can we buy or copy those DVDs? We would like to have it at home because it will always be available to be watched and to be used by us when we will teach in the University". The lectures in DVDs are: from IFSC-USP, Glaucius Oliva (A descoberta do DNA como material Genético: a dupla hélice; Genoma Estrutural: de genes a novos fármacos); Ana Paula U. Araújo (A tecnologia do DNA recombinante: manipulando os genes; Plantas Transgênicas); Otávio H. Thiemann (O fluxo da informação genética); Richard Charles Garratt (Patentes); from Instituto Ludwig, SP, André Luiz Vettore (O Projeto Genoma Humano e novidades); from UNICAMP João Meidanis (Bioinformática); Nelson Duran (Nanobiotecnologia: nanopartículas e nanomateriais para liberação de bioativos); From USP-SP Armando Ventura, ICB (Terapia Gênica); Lygia V. Pereira, ICB (Clonagem terapêutica e reprodutiva; células tronco); Koiti Araki, IQ, (Biossensores); from UFRJ, Pedro G. Pascutti, (Otimização de estrutura e dinâmica molecular).

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