

## ANTI-INFLAMMATORY AND CITOTOXIC ACTIVITIES OF EXTRACT OF THE MUSHROOM *Geastrum saccatum*

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The mushroom *Geastrum saccatum* is used in the popular medicine as scar prevent and anti-inflammatory. Studies carried through with polysaccharides extracts of this fungi, demonstrated that the same ones possess many biological activities. The powders of the fruits bodies of the mushroom was placed in a solution in the proportion of 10 g of powder for 100 ml of distilled water at 100°C during 3h and to the supernatant 3v of ethanol was added. The action of this extract was tested in the inhibition of the hydroxyl and superoxide radicals with values of the order of 75% and 88.4%, respectively. The antioxidant action was confirmed by the measure of the lipid peroxidation of rat liver microsomes. The anti-inflammatory action of extract was verified by carrageenan- induced pleurisy. The extract reduced (50 mg/Kg) the amount of NO ( 14,5 nmol NO<sub>2</sub>/NO<sub>3</sub> ) of the pleural exudates from treated rats(control = 23,9 nmol NO<sub>2</sub>/NO<sub>3</sub>). Ear edema induced by croton oil was inhibited by administration (i.v) of the extract (30 mg/Kg). When leukocytes from rat peritoneum were incubated with the extract (50mg/ml) a low cytotoxic effect was observed. The results suggest that this mushroom has anti-inflammatory compounds.

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