

Analysis of Sewage and Fresh Pond Water Samples from Thakur College Campus and their Treatment using Fungal Organisms

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Abstract: *Aflatoxin biosynthesis was induced by compounds in filtrates (EF) obtained from cultures consisting of ground maize kernels colonized by Aspergillus flavus. Natural poisons in food are as much a part of our life as the oxygen we breathe. It is more important to be able to neutralize these poisons naturally from our diet. This is only possible if we are exposed to very minute and non-toxic amounts which our bodies can handle with ease. It would not only be unrealistic, but impossible to totally eradicate natural poisons from our food. Some mycotoxins directly inhibit the growth of microorganisms. The term Mycotoxin literally means poison from fungi. Mycotoxins are secondary metabolites produced by micro fungi that are capable of causing disease and death in humans and other animals. Because of their pharmacological activity, some mycotoxins or mycotoxin derivatives have found use as antibiotics, growth promotants, and other kinds of still others have been implicated as chemical warfare agents.*

Keywords: *Aspergillus flavus, Mycotoxins, Aflatoxins, Secondary Metabolites*