

## A study on Aspergillus flavus



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## A STUDY ON ASPERGILLUS FLAVUS

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GRIN Verlag Okt 2011, 2011. Taschenbuch. Book Condition: Neu. 210x148x2 mm. This item is printed on demand - Print on Demand Neuware - Technical Report from the year 2011 in the subject Biology - Micro- and Molecular Biology, The University of Mysore (-), course: Biotechnology, language: English, abstract: *Aspergillus flavus* is the most widely known species of the genus *Aspergillus* which is known as a species in 1809 and first reported as a plant pathogen in 1920. Many fungi produce mycotoxin, a toxic secondary metabolite. Most *A. flavus* produces aflatoxin, a type of mycotoxin that is harmful for human, animal, and plant health. Characterization study of this saprophyte is important for the management of various human, animal, and plant diseases as well for surveillance, and other epidemiological study. The study focused on 3 subjects, morphological and physiological study, enzyme activity, and aflatoxin production from ground nut seeds collected from all over India. The growth of this fungus was compared in 4 different media for morphological study and in 4 different temperature on PDA media for physiological study. For enzyme activity, amylolytic, proteolytic, lipolytic, cellulolytic, pectinolytic and catalytic activity were determined. The presence of aflatoxin was performed using thin layer chromatography method. Among 12 isolates, amylase activity was shown by only 12 isolates and there is no clear zone in the remaining 8 isolates. Five isolates did not produce any protease among the 20 tested. Where as 18 isolates were positive for pectin methyl production. In case of lipase, 3 isolates did not show any white precipitation and all other isolates showed white precipitate due to the activity of lipase. Cellulose activity was very low in all the tested isolates and only 2 (AF7 and AF14) isolates exhibited the activity of cellulose in culture plates. Specific activity of catalase was calculated...



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