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***Pleurotus florida*: Myco- community in carcinogenic metal ions uptake capacity**Pungayee Alias Amirtham P¹ and Padmavathy S²¹Cauvery College for Women, India²Bishop Heber College, India

Chemical carcinogens trigger cancer, directly cause genetic mutation leading to rapid cell division and abnormal cell growth. Most of the heavy metals are anticipated to be human carcinogen and metal carcinogenicity ingestion in living system beyond the limited concentration causes severe health disorders. Macro fungi are promising economic, environmental sound alternative bioremediating tool for the heavy metal uptake capacity. The present study offers an insight into the deterioration of metal toxicity through the *Pleurotus* species and the experimental results highlighted the screening potential of *Pleurotus florida* for nickel and cobalt ions uptake capacity. Larger amount of cobalt ion 66.33 mg/Kg in the fungal fruiting body than nickel ions (52.83 mg/Kg) showed that cobalt ion has greater bioaccumulation factor and resulted in lower growth rate. The metal accumulated *Pleurotus florida* species were tested against pathogenic bacteria and fungal organisms and the zone of inhibitory values indicated greater antimicrobial activity than control and it confirms the bioaccumulation of metal ions in the fungal fruiting body.

Biography

Pungayee Alias Amirtham is an Assistant Professor in Cauvery College for Women, India. She has number of publications in national and international journals.

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