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Isolation and molecular characterization of the dandruff sample and its inhibiton by medicinal plants

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With dandruff being a common everyday problem and the market loaded with antidandruff shampoos and such skin care products; it is obvious to assume resourceful research into this area. Medicinal plants have some natural Antimicrobial property and therefore such combination could be a potential antidandruff activity. To check its antidandruff activity, experiments have been conducted on *Malassezia furfur* the causal organism for seborrheaic dermatitis or dandruff, which has been cultured for such study in our lab and its molecular characterization, is done by SDS and Agarose gel electrophoresis method. *Malassezia* spp. is lipophilic unipolar yeasts recognized as commensals of skin that may be pathogenic under certain conditions. The medicinal plants are natural and it has no or fewer side effects. Through synthetic and semi synthetic drugs are available in today's market; there is need for new ones from natural origin like phytoconstituents. Spices are the natural constituent who has contained more amounts of chemical constituents is helpful for antimicrobial or antifungal activity.

Biography

Parthasarathi Barik is currently working as a project fellow at CSIR Centre for Mathematical Modeling and Computer Simulation (CSIR C-MMACS) which is repositioned as CSIR Fourth Paradigm Institute, Bangalore, India. His research and professional career spans about 2 years of research and capacity building in modeling and computer simulation, health data mining, Data assimilation, disease modeling knowledge in biotechnology and subjects related to life science.

He obtained his M.Sc. (Biotechnology) from Bangalore University during 2010 and then joined as a researcher at Robust Materials Technology Pvt. Ltd, Bangalore where he carried out extensive research to understand inhibition of human dandruff by medicinal plants using the human dandruff sample. He also position in physics Olympiad in national level. He has published one paper and two more papers are in review in international journal. He also presented few papers in the conferences and also contributed the research articles to conference proceedings.

Currently Mr Partha is involved in the disease modeling group at CSIR C-MMACS where he uses the multi-source weather and climate data and develops the empirical models for the estimation as well as prediction of diseases like Malaria, Diarrhea, etc. at regional scale. He has basic knowledge of computational biology where he uses the software's for the data analysis. He is also good in experimental works in laboratory along with related software exposures.

Apart from his scientific credential he is very much active in the academic capacity building and human resource development where he discussed and helped the college students for the better understanding of life sciences. He is also a good sportsman and played carrom and net ball at national level.

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