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Anti-dermatophytic activity of *Avicennia marina* obtained from marine habitat in Yanbu region

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angroves are the ecologically important coastal wetland. They have been used for centuries as popular method for Ltreating several health disorders. Avicennia marina is a member of true mangrove plants also it is an important source of phytochemicals applications. The leaves and root of Avicennia marina have been used as traditional medicine for the treatment of skin diseases. This study was aimed to identify anti-dermatophytic effects of cold and hot aqueous extracts of A. marina against Microsprum gallina, M. gypsum, M. canis, Trichophyton mentagrophytes, T. vercossum, Epidermophyton floccosum, Candida albicans and C. tropicalis in vitro. Dry weight and disk agar diffusion MIC test of fungi were used to determine anti-dermatophytic. The results of our experiment indicate that, aqueous extracts of A. marina have a high effective against M. gallina, M. gypsum, M. canis, T. mentagrophytes, T. vercossum, E. floccosum while low effective against C. albicans and C. tropicalis. The cold extract of A. marina has a higher inhibition with concentrations (10 and 15 ml), whereas the hot extract has more effective than cold extract against tested fungi. The MIS values of hot extract showed the highest antifungal activity against M. gallina, M. gypsum, M. canis, T. mentagrophytes, T. vercossum, E. floccosum. Thus, this study recommended that A. marina can be used to treat skin infections.

Biography

Nojod Ahmed Al-Zumay is currently working as a Teaching Assistant at the University of Jeddah, KSA. She has received her degree in Microbiology in 2011 at King Abdulaziz University, KSA.

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