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Antimicrobial activity of some medicinal plants against some oral pathogens

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Antimicrobial activity of some medicinal plants against some human pathogens was carried out in the present study. The plants investigated for their antimicrobial activity are *Lallemantia royleana*, *Phyllanthus maderaspatensis*, *Plantago ovata*, *Rosa indica* and *Solanum nigrum*. The plants were collected from in and around the campus of Integral University, Lucknow, India. The plant parts were separated, washed, cleaned and air dried. Extracts of plants parts were made in methanol by keeping it soaked for 72 hours in dark at room temperature. The extracts were filtered through Whatman filter paper and concentrated *in vacuo*. It was then stored at 4° C in aliquots until used. Different bacterial and fungal strains were prepared using nutrient agar and PDA. The MIC, MBC and standard disc diffusion assay was carried out to evaluate the efficacy of the plant extract using controls. The methanolic extracts of the plants undertaken study showed strong antimicrobial activity against human bacterial and fungal pathogens with MIC₅₀ and MBC values ranging from 4.35-6 and 6-10 µg/ml; and zone of inhibition ranging from 6-22 mm. Hence, the plant extracts can be evaluated for isolation of bioactive natural products that may serve as leads in the progress of development of fresh pharmaceuticals addressing to the unmet therapeutic requirements for better health.

Biography

Saadia Mohammed Ali have completed PhD in Biotechnology from Integral University, Lucknow, U P, India. She has an experience of five years at Integral University, Lucknow, UP as a Lecturer in the department of Biotechnology delivering lectures in Basic Biology, Biochemistry, Microbiology and Bioinformatics for a period of 5 years. Have attended seminars, conferences and trainings of various applications of Life Sciences and Bioinformatics and awarded with a Gold medal at University level for securing the first position in Graduation. Have also been awarded with the SC Pant Memorial Young Scientist Award.

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