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Evaluation of Antimicrobial, Antioxidant Activity and Preliminary Phytochemical Investigation of Medicinal Plants Used in Traditional Medicine

Saadia Mohammed Ali¹, Jasmine Fatima² and Huma Mustafa³

¹Department of Biotechnology, Integral University, Lucknow, India

²Department of Chemistry, Integral University, Lucknow, India

³Council of Science & Technology, Lucknow, India

Medicinal plants are the best source to obtain a variety of herbal drugs. Mankind owes its existence to plant life to a great extent. The use of plants as food, clothing, ornaments, transport, shelter etc. had been known since the beginning of time. For a long period of time, plants have also served as a valuable source of natural products for treatment of various infectious diseases and maintaining human health. A large portion of the world's population, especially in developing countries, still depends on the traditional system of medicine. The present investigation aims to study the antimicrobial activity and antioxidant activity of commonly used plants in unani medicine. The plants undertaken study includes *Lallemantia royleana*, *Rosa indica* and *Solanum nigrum*. The plant parts studied include the seeds of *Lallemantia royleana*, the petals of *Rosa indica* and the berries or fruit of *Solanum nigrum*. The plant extracts were prepared using organic and inorganic solvent. The in-vitro efficacy of selected promising plant extracts and their fractions against different drug resistant enteric bacteria was performed. The phytochemical analysis of biologically most active plant extracts and fractions was also performed and the phytoconstituents are estimated qualitatively and quantitatively. The plant extract showed promising antimicrobial and antioxidant activity, therefore, can be evaluated for isolation of bioactive natural products. This 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 has completed Ph.D. in Biotechnology from Integral University, Lucknow, India. Saadia was awarded with a Gold medal at University for securing the first position in Life Sciences and also been awarded with the SC Pant Memorial Young Scientist Award in 2009 for her outstanding research work. She has published papers in several International and National reputed journals.

saaya27@gmail.com

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