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Phytochemical analysis of leaves of *Coleus aromaticus* Benth and its antibacterial activity against *Staphylococcus aureus*

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The expanding bacterial resistance to antibiotics has become a growing concern worldwide. Increasing bacterial resistance limits therapeutic options and hence attention has turned towards plants as alternative therapy against resistant strains. The search for antibiotic resistance modulators in plants represents a new dimension to addressing the problem of antibiotic resistance. Medicinal plants are promising and offer considerable potential for the development of new agents effective against infections currently difficult to treat. Medicinal plants, since time immemorial have been used as a source of medicine in most parts of the world. Leaves of plant *Coleus aromaticus* Benth were taken for herbal drug potential studies belonging to Lamiaceae family. In India, the plant is commonly known as Patharchur. In the present study *Staphylococcus aureus* bacteria was isolated from the sputum samples of T.B. negative patients. Phytochemical analysis of leaves was done in acetone, aqueous, ethanol and methanol solvents. Results showed that, leaves have flavonoids, saponin, phenolic compound, diterpenes and carbohydrates. The antibacterial activity of *Coleus aromaticus*

was evaluated against human pathogenic bacteria *Staphylococcus aureus* by well diffusion method. It has been observed that all solvent extract exhibit antibacterial activity. The alcoholic extract showed maximum activity followed by aqueous extract while acetonic extract exhibits minimum antibacterial activity against *Staphylococcus*. From this study it is concluded that leaves of *Coleus* are effective in the inhibition of *Staphylococcus aureus* growth in vitro conditions.



Biography

Renu Mishra has completed her PhD at the age of 25 from Barkatullah University, Bhopal, India. She has published more than 50 papers in reputed journals and guiding more than 10 students for doctoral work.

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