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B-PAPM- Biological potency of certain antifeedant plant extracts against some pathogens for the management of human disease

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Abstract

In vitro antimicrobial activity of leaf extracts from various antifeedant plants *viz., Calotropis gigantea* R.Br, *Ricines communis L, Aristolochia bracteolate* were investigated .. The crude methanol extracts were tested against the human ophthalmic pathogens *viz.,E.coil*,*Staphylococcus aureus*, *Streptococcus pyogenes*, *Staphylococcus epidermis*, *Streptococcus pneumoniae*, *Klebsiella, Pneumoniae*, *Streptococcus vividins*, *Proteus* sp. *Acinitobacter* and urinary tract infectious bacterial pathogens *viz., Pseudomonas* sp, *Enterobacter* sp, *Escherichia coli, Klebsiella pneumoniae* and *Proteus* sp. And antibiotic resistant pathogens (ABR) *viz., Staphylococcus aureus, Klebsiella pneumoniae, Streptococcus epidermis, Pseudomonas aeruginosa* and *Streptococcus pneumoniae*. Extract from leaf of chosen plant species have maximum inhibitory activity against most of the above used bacterial strains with the measured zone of inhibition. Among the plant species tested, the crude methanol extract of *Calotropis* have significant effect against the bacterial pathogens. Further investigation has been undertaken to isolate the active ingredients. Based on their feeding deterrent and toxic properties, some of these plant extracts have potential for use as alternative treatment for different types of human diseases such as ophthalmic, Urinary tract infectious and antibiotic resistant bacterial diseases etc.

Biography

Dr. S. Abideen has completed his Ph.D at the age of 42 years from Manonmaniam Sundaranar University, Centre for Marine Science and Technology, Rajakkamangalam. He has published more than 5 papers in reputed journals and published 6 books. He has organized 3 National conferences and guided post graduate students for their dissertation.