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Mineral constituents and antimicrobial activity of three rasashastra formulations

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Activity against Pseudomonas aeruginosa (ATCC-27853), Escherischia coli (ATCC 25922), Staphylococcus aureus (ATCC 25923), Staphylococcus aureus - MRSA and Candida albicans (ATCC 90028) using well diffusion assay, a modified version of the same and the agar dilution assay. Mineralogical analysis revealed a number of minerals including mica, cinnabar, chalcopyrite, sphalarite, arsenolite as constituents in MR while AB and ABS consisted of altered mica and iron oxides. All the drugs showed minor amounts of toxic elements and significant antimicrobial activity against Pseudomonas nation assay. The most susceptible bacterium was S. aureus, while none of the tested component showed activity against C. albicans. This study reveals that antimicrobial activity may be augmented with some minerals with the combinations of organic matter, as opposed to having only altered mica and iron oxides.

Biography

A. U. Wijenayake is a graduate in Geology, University of Peradeniya. Currently, pursuing her postgraduate studies at the Postgraduate Institute of Science (PGIS) in the same university. She has published 3 research articles in journals.

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