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Phytochemical and antimicrobial studies of *Euphorbia heterophylla* (Linn.)

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Euphorbia heterophylla is used as anti-gonorrhoea and in the treatment of common ailment in traditional medicine. The aim of the present study was to evaluate *E. heterophylla* leaves for the antibacterial activities and phytochemical components. Antibacterial analysis was carried out using agar well diffusion assay against eight pathogenic strains of gram positive, gram negative bacteria (*Neisseria gonorrhoea*, *Salmonella typhi*, *Pseudomonas aureginosa*, *Proteus vulgaris*, *Staphylococcus aureus*, *Escherichia coli*, *Streptococcus pneumonia* and *Bacillus subtilia*) and four different fungal species (*Aspergillusniger*, *Aspergillus tamari*, *Candida albicans* and *Fusarium oxysporium*). Phytochemical studies revealed the presence of tannins, anthraquinones, alkaloids, flavonoids and phenols in hexane, acetone and water extracts containing only phenol. The plant extracts demonstrated antimicrobial activity against both the test bacteria and fungi with water extract demonstrating the highest activity followed by the acetone extract. The plant has been presented for further isolation, identification and purification of these phyto-constituents.

Biography

Senjobi Comfort Titilayomi has completed her MSc at the age of 29 years from the University of Ibadan, Ibadan, Nigeria, where she is currently undergoing her PhD program in Botany. She is a lecturer at Tai Solarin college of Education, Omu, Ijebu-Ode, Ogun state, Nigeria, where she holds a responsible position of Examination Officer because of her diligence to work and high level of discipline that is seasoned with integrity. She is a prolific writer and has published more than ten papers in reputable journals.

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