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Assessment of antibacterial and antifungal activity of some Sudanese medicinal plants

Omer Mohammed Abdelrahman Ahmed
Managil University Of Science And Technology, Sudan

The aim of this study is to assess the antibacterial and antifungal activity and to determine the zone of inhibition, MIC, MBC and MFC of extracts on some pathogenic bacterial and fungal strains. In the present study, the microbial activity of ethanolic extracts of leaves of *Moringa oleifera* Lam (Moringaceae) and *Hyphaene thebaica* (Doum fruit) was evaluated for potential antimicrobial and antifungal activity against medically important bacterial and fungal strains. The antimicrobial activity was determined in the extracts using Agar diffusion well-variant method. The antibacterial activity of extracts (5, 25, 50, 100, 250 µg/ml) of each of the two plants were tested against two Gram-positive: *Bacillus anthracis* and *Staphylococcus aureus*; three Gram-negative: *Escherichia coli*, *Streptococcus pyogenes* and *Pseudomonas aeruginosa* human pathogenic bacteria; and three fungal strains: *Aspergillums niger*, *Aspergillus clavatus* and *Candida albicans*. The phytochemical analyses of the plants were carried out. The microbial activity of the leaves of *Moringa oleifera* and fruit of *Hyphaene thebaica* was due to the presence of various secondary metabolites. Hence, these plants can be used to discover bioactive natural products that may serve as leads in the development of new pharmaceuticals research activities.

Biography

Omer Mohammed Abdelrahman Ahmed has completed his PhD in Pharmaceutical Chemistry from Sudan Academy of Sciences, Khartoum. He has excellent experience in teaching, training of medical students and researches like data collection, sorting, tabulation, analysis, use of results in planning, implementation and evaluation. He also has a solid experience in training of junior staff of pharmacist and assistant pharmacist.

basatna2017@gmail.com

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