



## Evaluation of antibacterial, antioxidant and toxicological activities

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By Nayeema Nushrat

LAP Lambert Academic Publishing Apr 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - Recent years have witnessed that there is a revival of concern in drug discovery from medicinal plants for the maintenance of health in all parts of the world. The aim of this work was to investigate 4 plants belonging to 4 families (Calotropis gigantea, Mimosa pudica, Achyranthes aspera and Hibiscus rosa-sinensis variety: Kalyani, which were collected from different places in Bangladesh (Faridpur) for their in vitro antibacterial, antioxidant and toxicological evaluation. The 4 plants were extracted with methanol and chloroform to yield 8 extracts by Soxhlet's extraction. Antimicrobial activity was tested by agar diffusion & broth micro-dilution assay. Antioxidant activity was investigated by measuring the scavenging activity of the DPPH (1, 1-diphenyl-2-picrylhydrazyl) radical. Evaluation for in vitro toxicological screening was done against MDCK (Madin-Darby Kanine Kidney) cells by using an established microtiter plate assay based on cellular staining with trypan blue. The results will guide the selection of some plant species for further pharmacological and phytochemical investigations. 68 pp. Englisch.



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