Editor’s Note

Editor Note on Techniques to Isolate and Characterize Bio Active Compounds

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β-Lapachone (3, 4-dihydro-2,2-dimethyl-2H-naphthol [1,2-b] pyran-5,6-dione) is alipophilic ortho-naphthoquinone, having antifungal, antimicrobial, antitumor, antiviral and anti-trypanosomal activities. It is originally isolated from the lapacho tree of South America. The current study deals with the isolation of β-Lapachone accomplished by preparative TLC, further the compound was characterised by 1H NMR, Mass and FT-IR spectral analysis. A significant antifungal activity was recorded against Candida albicans and Aspergillus niger species [1].

The aim of this study is to investigate the analgesic, antipyretic and anti-inflammatory activities of aqueous extracts of Aloe volkensii and scientific validation of its efficacy. Results of the study articulate that the opioids of Aloe volkensii have contributed to the analgesic effects and the phytochemicals contributed to the anti-inflammatory and antipyretic activities. This study is in line with the traditional use of A. volkensii to treat various diseases associated with pain, fever and inflammation [2].

Baharetha et al. investigated the anti angiogenic effect of the Nigella sativa seeds extracts prepared from varying extraction pressure and temperature. GC-MS analysis study reveals the presence of antioxidant compounds and its anti-angiogenic activity confirmed by the cell viability study on human umbilical vein endothelial cells [3].

The study developed by Sathelly et al. discusses about the effective protocol for the in vitro plantlets multiplication from leaf disc explants of Piper longum L., a medicinally important plant. They have developed MS medium supplemented with 2 mg/l BAP+1 mg/l kinetin+3% Glucose is found to be the best combination for maximum multiple shoot induction frequency. Author proposed this is a most suitable plant tissue culture method for the economically important medicinal plant [4].

References