Editor's Note



Editor-in-chief
Thomas Efferth
Johannes Gutenberg
University, Germany

Editor Note on Techniques to Isolate and Characterize Bio Active Compounds

Medicinal and aromatic plants Volume 5, Issue 3, comprises of 12 research articles and 3 editorials.

 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 1 H NMR, Mass and FT-IR spectral analysis. A significant antifungal activity was recorded against *Candida albicans* and *Aspergillusnigrus* 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 antiangiogenicactivity 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

- 1. Karthikeyan R, SaiKoushik O, Kumar PV (2016) Isolation, Characterisation and Antifungal Activity of β-Lapachone from Tecomariacapensis (Thunb.) Spach Leaves. Med Aromat Plants 5: 239.
- 2. Safari VZ, Kamau JK, Nthiga PM, Ngugi MP, Orinda G, et al. (2016) Antipyretic, Anti-inflammatory and Analgesic Activities of Aqueous Leaf Extract of Aloe volkensii in Albino Mice. Med Aromat Plants 5: 240.
- 3. Baharetha HM, Nassar ZD, Ahamed MK, Aisha AFA, Alfadly SO, et al. (2016) Use of Nigella sativa Linn. Supercritical Carbon Dioxide Extract for Targeting the Angiogenesis Cascade. Med Aromat Plants 5: 241.
- 4. Sathelly K, Podha S, Pandey S, Mangamuri U, Kaul T (2016) Establishment of Efficient Regeneration System from Leaf Discs in Long Pepper an Important Medicinal Plant (Piper longum L.). Med Aromat Plants 5: 248.