F Mtunzi et al., Nat Prod Chem Res 2017, 5:5 (Suppl)
DOI: 10.4172/2329-6836-C1-016

Evaluation of biological activities, isolation and identification of active compounds from selected plants from Kwazulu-Natal, South Africa

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Bioassay guided study involving anti-inflammatory studies measurements of LOX activity effected by a reaction medium containing 15-LOX, linoleic acid in buffer at pH 9 for 30 to 90 seconds after adding plant extract/fraction, free radical scavenging capacity against the ABTS.+ radical cation and DPPH. radicals, antimicrobial and bioautography assays against Staphylococcus aureus, ATCC 29213, Pseudomonas aeruginosa, ATCC 27853, Enterococcus faecalis, ATCC 29212, Escherichia coli, ATCC 25922, Candida albicans and A. fumigatus were carried out on the plants extracts, fractions and pure compounds. Isolation of compounds displaying biological activity was characterized by use of spectroscopic techniques.

Biography

F Mtunzi has completed his PhD from University of North-West, South Africa. Presently, he is the Senior Lecturer and Researcher at Vaal University of Technology. He has published more than 30 papers in reputed journals and has been serving as an Editorial Board Member of repute.

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