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Wound healing: Contributions from plant secondary metabolite antioxidants

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Abstract

Plants possess a wide variety of phytochemicals to perform their normal physiological functions and to protect themselves from microbial pathogens and animal herbivores. These phytochemicals are classified either as primary or secondary metabolites. The secondary metabolites have been identified in plants as alkaloids, terpenoids, phenolics, anthraquinones and triterpenes. Although plants synthesise these compounds for their own use, the phytochemicals are believed to have diverse medicinal properties including antioxidant properties. Plants have therefore been a potential source of antioxidants. Antioxidants have received a great deal of attention due to increased oxidative stress that has been identified as a major causative factor in the development and progression of several life-threatening diseases, including neurodegenerative and cardiovascular diseases and wound infection. Many medicinal plants, therefore, have been cited and known to have antioxidant properties and healed wounds successfully. Thus, this presentation considers it necessary to highlight on the antioxidant and wound healing properties of some medicinal plants.

Biography

Victor Y A Barku is a progressive professor in Organic Chemistry at the Department of Chemistry, University of Cape Coast. His research interests is in Natural Products Chemistry (Phytochemistry) focusing on isolation and structural elucidation of bioactive compounds from medicinal plants purposively towards drug discovery. He holds a Ph.D. degree certificate in Chemistry from the University of Cape Coast, Ghana. He has published over 30 articles in reputable peer-reviewed journals including book chapters. He is a member of the Asian Council of Scientific Editors and Editorial Board member of the South Asian Research Journal of Natural Products. He is also a Technical Editor for the Research Journal of Medicinal Plants and Research Journal of Phytochemistry.

Publications

- Wound Healing: Contributions from Medicinal Plants and Their PhytoconstituentsA digital
- Studies on the physicochemical characteristics, microbial load and storage stability of oil from indian almond nut (terminalia catappa l.)
- Isolation and pharmacological activities of alkaloids from Cryptolepis sanguinolenta (Lindl) schlt
- Phytochemical Studies, In-vitro Antibacterial Activities and Antioxidant Properties of the Methanolic and Ethyl Acetate Extracts of the Leaves of Anogeissus leiocarpus
- In-Vitro Assessment of Antioxidant and Antimicrobial Activities of Methanol Extracts of Six Wound Healing Medicinal Plants

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