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Comparative Study on the Pharmacognostic Characteristics and Antioxidant Activity of Zingiber officinale (Roscoe) and Zingiber zerumbet (Linn.)Sm

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Pharmacognostic studies ensures authentication of plants, safety and efficacy of the plants, lays down standardization parameters which help in identifying plants and closely related species and establishing whether the species can be substituted for each other (Tatiya et al, 2012). Zingiber officinale and Zingiber zerumbet are closely related species which possess similar characteristics and activities. This research is aimed at establishing whether the Zingiber officinale can be substituted for Zingiber zerumbet.

Specific Objectives:

The specific objectives includes

- To establish the phytochemical constituents of Z. officinale and Z. zerumbet.
- To establish the physico-chemical characters Z. officinale and Z. zerumbet.
- To establish the antioxidant activity of Z. officinale and Z. zerumbet

- To establish the macroscopic and microscopic characteristics of Z. officinale and Z. zerumbet.

Biography

Emmanuel Offin is a dedicated professional in the Department of Herbal Medicine at the Faculty of Pharmacy and Pharmaceutical Sciences (FPPS), Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana. He specializes in advancing the study and practice of herbal medicine. His work focuses on promoting natural and traditional remedies within the scientific framework. Emmanuel actively contributes to the development of herbal medicine education and research in Ghana.