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In-virto and in-vivo Pharmacological Evaluation of 6-fluoro-3(Piperidin-4-yt) Benzo[d]isoxazole Derivatives for Their Antipsychotic Properties

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Objective & Aim: This study aims to evaluate the pharmacological potential of ethanol extracts from the rhizome of Alpinia calcarata, focusing on their anti-carcinogenic**,** antioxidant, and anti-inflammatory activities. The objective is to investigate the extract's efficacy in inhibiting cancer cell growth, scavenging free radicals, and suppressing inflammatory responses**,** thereby providing scientific validation for its traditional medicinal use**.**

Method: Ethanol extraction of *Alpinia calcarata* rhizome was performed using Soxhlet apparatus. The anti-carcinogenic activity was assessed through in vitro cytotoxicity assays (MTT assay) on selected human cancer cell lines. Antioxidant activity was evaluated using DPPH and ABTS radical scavenging assays. Anti-inflammatory potential was determined through protein denaturation inhibition and membrane stabilization assays. The results were statistically analyzed to determine the significance of the bioactivities.

Keywords: *Alpinia calcarata*, ethanol extract, anti-carcinogenic, antioxidant, anti-inflammatory, phytochemicals, medicinal plants, rhizome, cytotoxicity, DPPH assay

Biography1: Mr. **Bora Shankar Rao** is pursuing his M.Pharmacy in the Department of Pharmacology at *Sri Venkateswara College of Pharmacy*. His research focuses on In-virto and in-vivo Pharmacological Evaluation of 6-fluoro-3(Piperidin-4-yt) Benzo disoxazole Derivatives for Their Antipsychotic Properties, as reflected in his study on the *Pharmacological Evaluation of Ethanol Extracts from Alpinia calcarata Rhizome*.

Biography2: Ms. N. Rajeswari, M.Pharm (Pharmacology), is an Assistant Professor at Sri Venkateswara College of Pharmacy with over 6 years of academic and research experience. Her interests include experimental pharmacology, toxicology and herbal drug research, with a focus on integrating traditional medicine with modern therapeutics.

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