

Synergistic Effects of Plant-Based Compounds in Poly-Herbal Formulations for Inflammation Management

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Abstract: *Inflammation, a fundamental biological response to injury or infection, plays a pivotal role in maintaining homeostasis within the body's intricate systems. While acute inflammation is a protective mechanism crucial for tissue repair and defense against pathogens, chronic inflammation has been implicated in the pathogenesis of numerous debilitating diseases, including cardiovascular disorders, autoimmune conditions, and neurodegenerative ailments.[1,2] The conventional therapeutic arsenal for managing inflammation often relies on non-steroidal anti-inflammatory drugs (NSAIDs) and corticosteroids. However, the associated side effects and limitations of these treatments have fueled an exploration into alternative, nature-derived interventions. The last few decades have witnessed a burgeoning interest in harnessing the potential of plant-based compounds, owing to their diverse bioactive molecules and perceived safety profile.[3,4].*

Keywords: pathogens

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