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In Vitro Antioxidant Activity, Mineral Composition, and In Silico Identification of Potential Human COX-2 Inhibitors from *Azadirachta Indica*: A Case Study of Rheumatoid Arthritis

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Rheumatoid arthritis (RA) is a chronic autoimmune disorder marked by synovial inflammation and joint destruction, with Cyclooxygenase-2 (COX-2) significantly contributing to its pathogenesis. Traditional management includes NSAIDs and COX-2 inhibitors, which pose gastrointestinal and cardiovascular risks. Azadirachta indica (neem), known for its anti-inflammatory prop ...

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