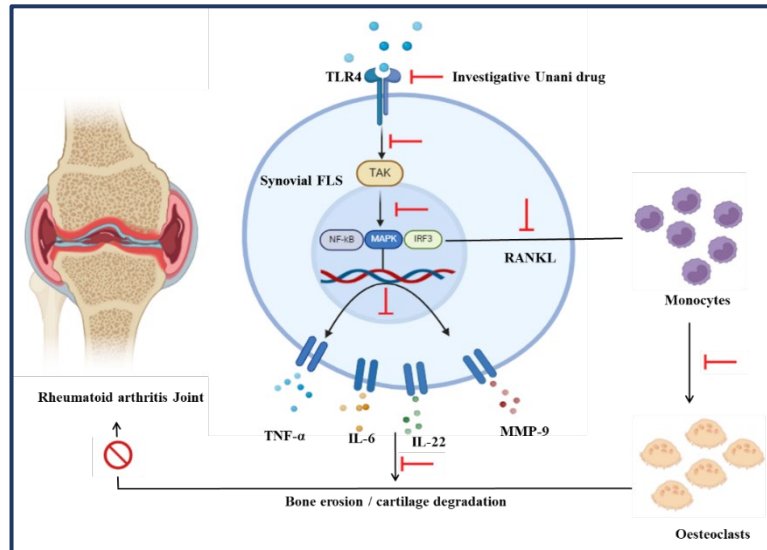


# Therapeutic evaluation of an unani herbal medicine against rheumatoid arthritis –an immunological approach for scientific validation

## Graphical Abstract/ Layout



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## Project Description:

Rheumatoid arthritis (RA) is an autoimmune-mediated inflammatory disease characterized by progressive joint destruction. Currently available therapies offer limited respite, suggesting the need for new alternative medicines. Macrophages and fibroblast-like synoviocytes (FLS) plays a crucial role in the pathogenesis of RA. Current pieces of evidence suggest that TLR-4 signaling cascade tightly controls the macrophage and RA-FLS mediated disease progression of RA. However, no therapies are available that specifically attenuate TLR-4 signaling in RA.

In recent years, there is renewed interest for Unani medicines as potential candidates for the treatment of joint disorders. However, to date, the precise mechanism of action of the investigative drug has not been identified to validate its therapeutic claim against arthritis. Hence, this study is designed to investigate the anti-arthritic action and immunological mechanism of *the unani polyherbal formulation* in rheumatoid arthritis with reference to

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**Name of the Scheme**  
Extramural Research Scheme

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**Duration of the Project (years)**  
3

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