

Special Issue

Rheumatic Diseases: Molecular Mechanisms and Treatment

Message from the Guest Editor

Rheumatic diseases encompass a diverse group of conditions characterized by autoimmune-mediated inflammation affecting multiple organs. Understanding their molecular mechanisms is crucial for developing effective treatments. Research has unveiled intricate pathways involving dysregulated immune responses, aberrant cytokine signaling, and genetic predispositions. Targeting these mechanisms has led to the development of innovative therapies such as biologic agents and small molecule inhibitors. Biologics like TNF- α inhibitors and interleukin-6 receptor antagonists disrupt inflammatory pathways, providing relief for conditions like rheumatoid arthritis and ankylosing spondylitis. Small molecule inhibitors, including Janus kinase (JAK) inhibitors, modulate intracellular signaling cascades to mitigate inflammation in diseases like psoriatic arthritis. Additionally, emerging treatments focus on immune regulation and tissue repair mechanisms to address the underlying pathology more effectively. By elucidating these molecular pathways and developing targeted therapies, researchers aim to improve outcomes and quality of life for individuals living with rheumatic diseases.

Guest Editor

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