Special Issue

Innate Immunity in Overdrive: Novel Insights into Autoinflammatory Syndromes

Message from the Guest Editor

Autoinflammatory diseases (AIDs) are disorders of innate immune dysregulation, causing recurrent or chronic inflammation without high-titer autoantibodies or antigen-specific T cells. They include monogenic syndromes, such as familial Mediterranean fever, and multifactorial conditions like adult-onset Still's disease and Behçet's disease. Advances in genetics and immunology have clarified roles of inflammasomes and cytokines (IL-1, IL-18, TNF). International registries now provide real-world insights into epidemiology, outcomes, and prognosis. A major breakthrough is VEXAS syndrome, identified in 2020, caused by somatic UBA1 mutations and marked by systemic inflammation and hematologic abnormalities, illustrating the "genotype-first" approach. This Special Issue will discuss recent progress and its impact on diagnosis, biomarkers, precision medicine, and treatment strategies. Targeted therapies, especially IL-1 and IL-6 inhibitors, have already changed care, with more advances expected through personalized approaches.

Guest Editor

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