

Special Issue

Regulatory Roles of Inflammasomes in Human Diseases

Message from the Guest Editors

Inflammasomes are intracellular protein complexes comprising intracellular pattern recognition receptors and other inflammatory molecules and play a pivotal role in the inflammatory responses. Inflammasomes are activated in response to a variety of pathogens and danger signals, resulting in caspase-1-dependent maturation and secretion of IL-1 β and IL-18 as well as gasdermin D-mediated pyroptosis, an inflammatory cell death. Previous studies have uncovered the activation of inflammasomes in the inflammatory responses and their dysregulation in many human diseases; therefore, inflammasomes have been considered as critical drug targets to treat a wide range of human diseases. This Special Issue welcomes original research, reviews, and perspectives with a focus on but not limited to the mechanisms of inflammasome regulation, the role of inflammasome in disease pathogenesis, identification and validation of novel molecules modulating inflammasome activation, development of inflammasome-targeting strategies, and inflammasome-targeted therapeutics.

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