

Special Issue

Cytoplasmic Sensors: Infection, Inflammation, and Immunity

Message from the Guest Editor

Dear colleagues, Cytoplasmic sensors play sentinel roles in detecting intracellular pathogen- or self-derived molecular patterns and initiate a proper healing-immune response. While important for protecting us from invading pathogens and dangers, dysregulated cytoplasmic sensors can promote autoinflammatory disorders. In addition to initiating signalling cascade that results in the production of pro-inflammatory cytokines and antimicrobial peptides, some members of the cytoplasmic sensors (e.g., NLRP1b, NLRP3, NLRC4, AIM2, and PYRIN) assemble a multimeric protein complex known as inflammasomes. The last decade has seen an unprecedented development in our understanding of how these cytoplasmic sensors function within our cells to not only provide immunity but also maintain cellular homeostasis. Manuscripts (articles and reviews) relating to the recent advancement in our understanding of the cellular, molecular, and biochemical pathways that are regulated by cytoplasmic sensors will be given priority and considered for this Special Issue.

Guest Editor

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