



The NLRP3-Inflammasome in Health and Disease

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In the last decades, many in vitro and in vivo studies have demonstrated that the aberrant NLRP3 activation is strongly involved in the pathogenesis of prevalent diseases, including inflammatory bowel disease, coronary heart disease, chronic kidney disease, autoimmune diseases, neurodegenerative diseases and cancer. Furthermore, genetic studies uncovered mutations or genetic variants in NLRP3 inflammasome components, conferring the susceptibility for diseases, such as diabetes and systemic inflammation. Finally, recently it has been proposed that dysregulated epigenetic mechanisms may contribute to the clinical manifestations of autoinflammatory syndromes by upregulating the expression of inflammasome components.

Therefore, it is our pleasure to invite investigators to contribute to this Special Issue with original research articles, aimed to better elucidate the current knowledge of the physiological and pathophysiological mechanisms of NLRP3 inflammasome activation in health and diseases and to propose new therapeutic approaches targeting NLRP3 inflammasome.





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Message from the Editor-in-Chief

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