



The Regulation of JAKs in Health and in Disease

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Message from the Guest Editors

JAK kinases mediate signaling from approximately 60 cytokines and hormones in the regulation of hematopoiesis, metabolism, inflammation, and immune response. The activation of JAKs functions as the triggering signal for all cytokine signaling where STAT transcription factors are the prototypical substrates and the crosstalk between different signaling pathways underlie the appropriate cellular regulation and biological responses.

This Special Issue will focus on the most recent advances in the regulation of JAKs in cytokine signaling and in diseases and emerging therapeutic approaches. We invite original research articles, short communications, and reviews from basic science to case studies and clinical trials on topics including but not limited to the following:

Regulation of JAKs; JAK-STAT signaling; JAKs in hematological, inflammatory, and autoimmune diseases; Identification and characterization of pathogenic JAK mutations; JAK inhibitors: Methodology for assessment of biochemical features, efficacy or safety, development of novel inhibitors, pre-clinical studies, and clinical findings.





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