

Special Issue

Targeting The Nuclear Factor Kappa-B (NF- κ B) Pathway for Drug Discovery

Message from the Guest Editor

The dysregulation of IKK/NF- κ B has been shown to be associated with inflammatory and autoimmune diseases, given the fact that the IKK/NF- κ B pathways play a central role in immune and inflammatory responses. In addition, IKK/NF- κ B-mediated inflammation is essential for the pathogenesis of other common human diseases such as cancer, diabetes, cardiac dysfunction and aging.

Since the direct pharmacologic inhibition of IKK β kinase activity has limited value in disease treatment, targeting NEMO-IKK β interaction or other protein-protein interaction interfaces to attenuate excessive IKK β activation under pathological conditions is considered as a promising strategy to develop novel therapeutics. In this special Issue, we invite authors in this field to report their original research discoveries pertaining to novel therapeutic approaches for targeting IKK. We are especially interested in novel research strategies that target allosteric sites and other protein-protein interaction interfaces, thereby inhibiting IKK activation, which would avoid severe side effects due to induced apoptosis and IL-1 β secretion.

Guest Editor

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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