

Special Issue

Structural and Functional Insights into Chemokines and Chemokine Receptors in Immune Pathologies

Message from the Guest Editor

Chemokines and their receptors play critical roles in immune responses and the pathogenesis of various immune-related diseases, including autoimmune disorders, cancer, and inflammatory conditions. This Special Issue aims to explore the structural and functional aspects of chemokines and their receptors, focusing on their signaling mechanisms and how they contribute to disease progression. We seek to highlight recent advances in understanding the molecular interactions and conformational dynamics of chemokine receptor complexes, employing cutting-edge techniques such as X-ray crystallography, NMR, cryo-EM, and computational modeling. In addition, the issue will cover the therapeutic potential of targeting chemokine signaling pathways, including drug discovery efforts aimed at allosteric modulation and receptor antagonism. The integration of structural biology, molecular biophysics, and bioinformatics in identifying novel drug candidates and therapeutic strategies will be a key theme. We welcome your submission.

Guest Editor

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