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Chemokines and Chemokine Receptors

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Message from the Guest Editor

Chemokines are proinflammatory chemoattractant cytokines that play a fundamental role in a multitude of physiological processes, besides being primarily involved in leukocyte trafficking. Around 45 drugs targeting chemokine receptors have been developed, yet only three are clinically approved. The major limitation in this field is the complex nature of aberrant chemokine signaling, which makes it difficult to understand the redundancy of chemokine receptor–ligand binding. Besides being involved in disease pathogenesis, chemokine signaling plays a critical role in many physiological processes that pose an additional challenge. Moreover, the broad ligand-binding pockets of chemokine receptors makes it difficult to design highly specific antagonists leading to non-specific binding, which may pose debilitating off-target effects.

In this Special Issue, authors are invited to submit their original and review articles that provide mechanistic insights into the chemokine system and highlight some potential strategies in the future development of chemokine-directed therapy.

I look forward to your valuable contributions.



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Special Issue



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