

Special Issue

Inhibition and Treatment in Adhesion, Migration, Invasion, and Metastasis of Cancer Cells

Message from the Guest Editors

Adhesion, migration, invasion and metastasis are key processes in the progression of cancer, representing critical steps through which cancer cells spread from their primary site to distant organs, leading to the establishment of secondary tumors. These processes are regulated by a complex network of signaling pathways that involve various molecules, including integrins, matrix metalloproteinases (MMPs) and the components of the extracellular matrix (ECM). The interactions between cancer cells and the ECM not only facilitate the physical movement of cells, but also activate signaling pathways that promote the survival, proliferation and further spread of cancer cells.

This Special Issue seeks to explore the molecular mechanisms of these critical cancer progression steps and the development of therapeutic strategies to target them. Contributions may include studies on the molecular mechanisms regulating adhesion, migration, invasion and metastasis; the role of the tumor microenvironment in facilitating cancer cell mobility; advances in identifying molecular targets and developing inhibitors; preclinical and clinical investigations of novel therapeutic agents.

Guest Editors

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Deadline for manuscript submissions

25 December 2025



Pharmaceuticals

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/201942

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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