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

Guest Editors:

Prof. Dr. Magdalena Izdebska

Department of Histology and Embryology, Faculty of Medicine, Ludwik Rydygier Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Toruń, 85-092 Bydgoszcz, Poland

Dr. Marta Hałas-Wiśniewska

Department of Histology and Embryology, Faculty of Medicine, Ludwik Rydygier Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Toruń, 85-092 Bydgoszcz, Poland

Dr. Wioletta Zielińska

Department of Histology and Embryology, Faculty of Medicine, Ludwik Rydygier Collegium Medicum in Bydgoszcz, Nicolaus Copernicus University in Toruń, 85-092 Bydgoszcz, Poland

Deadline for manuscript submissions:

13 December 2024



mdpi.com/si/201942

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.

Special Issue



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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química e Bioquímica (CQB), Faculdade de Ciências, Universidade de Lisboa (FCUL), Rua Ernesto de Vasconcelos, Campo Grande, Edifício C8, 5º Piso, 1749-016 Lisboa, Portugal

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Pharmaceuticals Editorial Office
MDPI, St. Alban-Anlage 66
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