

Special Issue

Cell Biology of Cancer Invasion: 2nd Edition

Message from the Guest Editor

The invasion of tumor cells is a prerequisite for metastasis, the most dreadful aspect of cancer. Cancer cells detach from the primary tumor and migrate through the tumor stroma to reach blood vessels, where they intravasate into the bloodstream. After cancer cells arrive at the distant organ, they extravasate and colonize to form secondary tumors. A dense extracellular matrix that acts as a physical barrier exists within the basement membrane, tumor stroma, and blood vessel walls. Therefore, the invasive activity of tumor cells, i.e., degradation of the extracellular matrix and coordinated migration, is necessary for cancer metastasis. The acquisition of invasive phenotypes is induced by the activation of oncogenic signaling pathways and epithelial–mesenchymal transition. The invasion of tumor cells is mediated by the formation of cellular structures called invadopodia, dynamic reorganization of the cytoskeleton, secretion and so on. Recent advances including genome sequencing, multi-omics analyses, gene-editing technology, and state-of-the-art microscopies have provided new insights into the mechanisms of cancer invasion.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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