

Special Issue

Research on Signal Transduction Mechanisms of Cancer Cells

Message from the Guest Editor

Cellular signaling mechanisms are intricately linked to homeostasis through events that control cell proliferation, survival and death. Aberrations in some of these mechanisms are often associated with oncogenic processes. Cancer cell signal transduction is a core process in tumor cell growth, proliferation, invasion, and metastasis, involving multiple intricate biochemical reaction pathways. Research on this pathway provides insights into the mechanisms driving development and progression of different cancers. There are many ways to study cancer cell signal transduction, including molecular biology, genetic engineering, protein chemistry, bioinformatics, etc. These may lead to identification of novel biomarkers and potential targets of therapy. Cancer cell signal transduction pathways are currently a research hotspot in cancer treatment, and their important role in it is gradually being discovered. The purpose of this Special Issue is to provide new insights into the signal transduction mechanisms of tumor cell growth, proliferation, invasion, metastasis, and apoptosis and their applications in cancer therapy.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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