

## Special Issue

# Genomics and Proteomics of Cancer

### Message from the Guest Editor

Carcinogenesis, tumor growth, and cancer progression are classified as complex multifactorial tissue-dependent processes. Furthermore, tumor growth and progression are primarily stimulated by genetic predispositions or environmental causes, or a combination of the two. Genetic and epigenetic modifications are important in many diseases, especially in cancer development where cells are able to proliferate and escape the mechanisms that normally control their survival and migration. Cancer cells show extensive alterations in protein expression levels and in protein phosphorylation. A complete characterization of the altered proteins in cancer versus normal cells can also help explain multidrug resistance, therapy-related side effects, and disease recurrence after therapy. Proteomic profile data can be used to elucidate cancer biology and metastasis processes in detail and drive the development of novel drug targets. This Special Issue of *IJMS* focuses on the proteins involved in the signaling pathways implicated in cancer biogenesis and progress.

### 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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