

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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