Special Issue

Data Science in Cancer Genomics and Precision Medicine

Message from the Guest Editor

Data science in cancer genomics is a new interdisciplinary field that applies statistics and next-generation sequencing (NGS) technologies to understand alterations in the genome of cancer cells. Data generated by these technologies are often termed multi-omics data and can include information on DNA, RNA, proteins, and epigenetic modifications, among others. Data science in cancer genomics allows us to better understand the molecular basis of different cancers and exploit this information to match each patient with the most appropriate molecular targeted therapy, widely known as "Precision Medicine". While traditional chemotherapy and radiation treatments target cellular processes common to both healthy and cancerous cells, precision medicine directs newly developed treatments specifically to cancer cells based on their underlying molecular profile. This Special Issue of the *International Journal of Molecular Sciences* focuses on the research field of "Cancer Genomics and Precision Medicine" and welcomes both original research articles and review papers that deal with the molecular mechanisms underlying modification in human cancer cells.

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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