

Special Issue

Regulatory Mechanisms Underlying Tumorigenesis

Message from the Guest Editor

Functional studies of tumor suppressor genes have revealed the significance of various regulatory mechanisms underlying tumorigenesis. For example, the loss of function of p53 or Rb results in deregulated cell-cycle checkpoints, whereas BRCA1/2 deficiency induces the impairment of DNA repair mechanisms. Although these essential machineries in normal cell survival and maintenance are intricately regulated, the candidates for molecular therapeutic targets have been identified partly predicated on the extensive analyses of hereditary cancer syndromes. Compared to traditional chemotherapy, molecular target drugs are expected to show fewer adverse effects; however, it has been reported that characteristic adverse effects appear in some cases. To overcome these problems and to improve the efficacy of drugs to tumors, novel molecular targets should be considered from different perspectives. This Special Issue aims at novel therapeutic targets for carcinomas and sarcomas based on basic and clinical research. In addition, authors are invited to submit original research and review articles that discuss this concept.

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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