

Special Issue

Role of Protein Kinase CK2 in Molecular Biology

Message from the Guest Editor

CK2 (casein kinase 2, CKII) is a serine threonine kinase, known to be essential for eukaryotic cell signaling for proliferation, survival and development. More than 300 proteins have been identified as CK2 substrates in the cells, elucidating diverse molecular functions of CK2 that depend on its defined cellular localization and biological time axis. Recently, functional genomic studies have demonstrated alterations in CK2 catalytic subunit alpha (*CSNK2A1*) in developmental disease, along with accumulated evidence concerning the overexpression of CK2 gene and/or protein levels in multiple types of human cancers. Based on these findings, drug discovery targeting this kinase has been piloted worldwide. In view of these current research efforts, this Special Issue focuses on original research articles and reviews, investigating the mechanisms underlying the function of protein kinase CK2 in the field of molecular biology, genomics, functional proteomics, epidemiology, pharmacology, protein structural biology, and cell biology. Trans-omics studies elucidating the function of CK2 are also welcome.

Guest Editor

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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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