

Special Issue

G Protein-Coupled Receptor and Their Kinases in Cell Biology and Disease

Message from the Guest Editor

Over the past three decades, after that Nobel prizes Robert Lefkowitz and Brian Kobilka characterized G protein-coupled receptors (GPCRs) structure, several clinical and pharmacological evidence advanced our knowledge on how these receptors, and their signaling pathways, influence almost every aspect of mammals physiology. Indeed, GPCRs can transduce cellular signals from neurohormones, sensory stimuli, and ions and their activity is directly modulated by GPCR kinases (GRKs) by phosphorylation and subsequent desensitization. Nevertheless, an alteration in GRKs expression, with subsequent GPCR dysfunction, may induce, or at least influence, the development and progression of different systemic disorders. Thus, several drugs able to directly inhibit or enhance GPCR signaling have been developed and are currently used in clinical practice. This Special Issue is calling both original articles and reviews providing to the readers of IJMS a comprehensive elucidation about GPCR and GRK functions in cell biology necessary for developing novel research approaches as well as therapeutic strategies. Dr. Cannavo Alessandro

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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