



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

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

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

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