



G Protein-Coupled Receptors

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

G-protein-coupled receptors (GPCRs) represent the largest family of surface receptors in the human body and play a key role in cellular signaling. Since they participate in numerous physiological and pathological processes, GPCRs are extremely important as molecular targets for drugs in medicine. Ligands of GPCRs are used in the treatment of many diseases, including cardiovascular and mental disorders, cancer, and viral infections. Additionally, they are also involved in various kinds of inflammation processes and neurodegeneration. Currently, approximately 30%–50% of drugs in clinical use are targeting GPCRs. Our current understanding of function of GPCRs was changed from simple on-off machines to multidimensional signaling. Each receptor undergoes a series of conformational rearrangements controlled by molecular switches, leading to partial or full activation.

Prof. Dr. Stawomir Filipek

Guest Editor





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Message from the Editor-in-Chief

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