Special Issue

G Protein-Coupled Receptors

Message from the Guest Editor

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.

Guest Editor

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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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