

Special Issue

G Protein-Coupled Receptors: Signaling, Regulation and Therapeutic Opportunities

Message from the Guest Editor

G-protein-coupled receptors (GPCRs) are sensors of the external (light, odors, and tastants) and internal (hormones, neurotransmitters, and local hormones) milieu, mediating physiological functions and participating in the pathophysiology of many diseases. Therefore, GPCRs are targets of a large percentage of prescribed and illegal drugs. Pharmacology and therapeutics are advancing, leading to the discovery of full, partial, inverse, and biased agonists, antagonists, allosteric modulators, inducers of internalization and degradation, and the identification of unexpected actions of substances already employed in current medical practice, all of which has led to the development of targeted therapies for different maladies. Similarly, molecular strategies have allowed, at least partially, for the elucidation of how GPCR structure is modulated by different ligands and by proteins that regulate them through interaction and post-translational modifications, thus evidencing the formation of receptor complexes and their roles in signaling at the plasma membrane and endosomes. The current Special Issue welcomes submissions on these areas.

Guest Editor

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