Special Issue

Allosteric Modulators of GPCRs

Message from the Guest Editors

G protein-coupled receptors (GPCRs) are the largest group of receptor proteins that are targeted by more than 30% of drugs. The problem of selective modulation of GPCR activity is a mainstream in molecular biology and biochemistry.

This Special Issue is devoted to the prospects and unresolved problems of allosteric regulation of GPCR, and the main topics will be: (1) search, design, and development of different classes of allosteric GPCR regulators, including endogenous allosteric modulators. (2) deciphering the targets and molecular mechanisms of action of the endogenous and artificial allosteric GPCR regulators, (3) study of the structure and organization of allosteric GPCR sites and their role in the functioning of GPCR, (4) the effect of oligomerization of GPCR and their complex with the receptor-activitymodifying protein (RAMP) on allosteric effects; (5) allosteric GPCR regulators and control of biochemical and physiological processes, (6) impaired allosteric regulation of GPCR and pathogenesis of autoimmune, neurodegenerative, and other diseases.

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Deadline for manuscript submissions

closed (30 April 2022)



International Journal of Molecular Sciences

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Message from the Editor-in-Chief

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