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Molecular Pharmacology of 5-HT Receptors

Guest Editor:

Dr. Caroline Sevoz-Couche
Sorbonne Universite, Paris, France

Deadline for manuscript submissions:
closed (25 January 2022)

Message from the Guest Editor

Dear Colleagues,

In the human central nervous system (CNS) alone, all the serotonin receptor subtypes, with the exception of 5-HT5b, are expressed. LGICs require auxiliary subunits for their trafficking, assembly, and pharmacological modulation. Auxiliary subunits do not form functional homomeric receptors but are reported to assemble with the principal subunits in order to modulate their pharmacological profiles. For example, in the brain, serotonergic 5-HT3B, 5-HT3C, 5-HT3D, and 5-HT3E are reported to assemble with the 5-HT3A subunit to modulate its pharmacological profile.

Much research regarding serotonin has been in the area of neuropsychiatric drug discovery in the treatment of affective disorders, where there continues to be an extreme interest in the design of more efficacious pharmaceuticals. With the wealth of structural information obtained in the past twenty years for serotonin GPCRs and LPGCs, this Special Issue focuses on the challenge for modern 5-HT research: structure-guided approaches that eventually lead to neuropsychiatric medications with greater efficacy and fewer side effects.

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