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Glutamate Receptors

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Deadline for manuscript submissions:
closed (26 November 2021)

Message from the Guest Editors

So far, eight different mGluR subtypes have been cloned and characterized that are located either in the perisynaptic annulus or on presynaptic terminals and have diverse neuroanatomical distributions and unique pharmacological and intracellular signaling properties. The mGluRs can be divided into Group I (mGlu1 and mGlu5), Group II (mGlu2 and mGlu3), and Group III (mGlu4, mGlu6, mGlu7, and mGlu8). Group I mGluRs, particularly mGluR5, are positively coupled to N-methyl-D-aspartate receptor (NMDAR) function and the Homer family of proteins. Group I mGluRs are rarely found presynaptically. Presynaptically localized Group II and Group III mGluRs, notably mGluR2 and mGluR3, are the classic inhibitory autoreceptors that suppress excess glutamate release from the presynaptic terminal. In recent years, positive allosteric modulators of mGluRs have also been synthesized. These compounds are an exciting advance for the development of novel therapeutic agents for increasing the activity of mGluR subtypes.

All authors are cordially invited to contribute original research papers or reviews that target mGluRs to this Special Issue of Life.

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Message from the Editor-in-Chief

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