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Title:	Inside story of Group I Metabotropic Glutamate Receptors (mGluRs)
Authors:	Bhattacharyya, Samarjit (/jspui/browse?type=author&value=Bhattacharyya%2C+Samarjit)
Keywords:	Endocytosis Receptor recycling Trafficking Desensitization
Issue Date:	2016
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Citation:	International Journal of Biochemistry and Cell Biology, 77, pp. 205-212.
Abstract:	Metabotropic glutamate receptors (mGluRs) are G-protein coupled receptors (GPCRs) that are activated by the neurotransmitter glutamate in the central nervous system. Among the eight subtypes, mGluR1 and mGluR5 belong to the group I family. These receptors play important roles in the brain and are believed to be involved in multiple forms of experience dependent synaptic plasticity including learning and memory. In addition, group I mGluRs also have been implicated in various neuropsychiatric disorders like Fragile X syndrome, autism etc. The normal signaling depends on the precise location of these receptors in specific region of the neuron and the process of receptor trafficking plays a crucial role in controlling this localization. Intracellular trafficking could also regulate the desensitization, resensitization, down-regulation and intracellular signaling of these receptors. In this review I focus on the current understanding of group I mGluR regulation in the central nervous system and also their role in neuropsychiatric disorders.
URI:	https://www.sciencedirect.com/science/article/pii/S1357272516300577?via%3Dihub (https://www.sciencedirect.com/science/article/pii/S1357272516300577?via%3Dihub) http://hdl.handle.net/123456789/2516 (http://hdl.handle.net/123456789/2516)
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