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Name of Journal: World Journal of Gastroenterology

Manuscript NO: 33075

Manuscript Type: REVIEW

Localization and role of metabotropic glutamate receptors subtype 5 in the gastrointestinal tract

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### Abstract

Metabotropic glutamate receptor subtype 5 (mGluR5) is a Group I mGlu subfamily of receptors coupled to the inositol trisphosphate/diacylglycerol pathway. Like other mGluR subtypes, mGluR5s contain a phylogenetically conserved, extracellular orthosteric binding site and a more variable allosteric binding site, located on the heptahelical transmembrane domain. The mGluR5 receptor has proved to be a key pharmacological target in conditions affecting the central nervous system (CNS) but its presence outside the CNS underpins

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Localization and function of metabotropic glutamate receptor 8 in the enteric nervous system ... expressed in the gut and to examine their role in gastrointestinal physiology. ... The gut was removed and washed with oxygenated (95% O2-5% CO2) .... the brain expresses the genes encoding all four group III mGluR subtypes.

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The metabotropic glutamate receptors, or mGluRs, are a type of glutamate receptor that are ... The mGluRs are further divided into subtypes, such as mGluR 7a and ... The mGluRs in group

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