



## BIOLOGY

The selective mGluR2 agonist DCG-IV dose-dependently inhibits synaptic transmission in the Dentate Gyrus (stimulation of Medial Perforant Path (MPP), see fig. A and B). Pre-synaptic action of DCG-IV is revealed by modulation of the Paired-Pulse Ratio in the Dentate Gyrus. mGluR2 receptors act as pre-synaptic autoinhibitory receptors under conditions of high-frequency stimulation at MPP synapses. mGluR2 receptors have been described as a novel target to treat anxiety disorders since mGluR2 agonists display anxiolytic and antipsychotic properties *in vivo* and reduce side-effects compared to current available drugs.

## PATHOLOGIES ASSOCIATED WITH mGluR2 RECEPTOR

Obsessive and Compulsive Disorders  
Anxiety and Stress Disorders  
Drug and Alcohol Addiction

## BIBLIOGRAPHY

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