

## Changes in the expression of serotonin receptor 5-HT<sub>5A</sub> by chemical substances

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Serotonin has been involved in distinct physiological processes by the activation of their receptors subtypes. In this work we studied the changes on the expression of 5-HT<sub>5A</sub> receptors in rat hippocampus induced by the chemical leptin which has been involved in the modulation of food intake. We used the immunohistochemistry in order to know the changes in the distribution for the 5-HT<sub>5A</sub> receptor in the hippocampus. Rats were separated in four groups: control (untreated rats), leptin-treated, serotonin-treated and leptin+serotonin treated. The results showed that treated rats with leptin and serotonin, the specific immunostaining for the 5-HT<sub>5A</sub> serotonin receptor decreased significantly in the dentate gyrus.

### Biography

Guadalupe Garcia Alcocer completed her PHD from National University of Mexico. She is professor at the University Autonomous of Queretaro, Mexico. She has published more than 15 papers, presented 25 works in International meetings and 30 in National meetings. She is serving as referee in repute journals like Brain research and Neuroscience Letters. She formed more than 35 students and is member of the National Research System since 2005.

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