



Molecular Mechanism Underlying Memory Modulated by Emotions and Stress

Guest Editor:

Prof. Dr. Jana Tchekalarova

Institute of Neurobiology,
Bulgarian Academy of Sciences,
Acad. G. Bonchev Street, Block
23, 1113 Sofia, Bulgaria

Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editor

This Special Issue aims to attract the interest of researchers who study the modulatory effect of emotions, stress and novelty on memory consolidation, retrieval and reconsolidation. The main objective is to provide a platform for the promotion of the latest discoveries regarding the cellular mechanism of the emotional enhancement of memory, circuits responsible for novelty detection and the neuromodulatory capacities of catecholamines, the endocannabinoid system, acetylcholine and glucocorticoids.

Potential topics focusing on molecule-level studies are as follows:

The role of the basolateral amygdala in the emotional modulation of memory;

The role of locus coeruleus connected to dorsal hippocampus projections in memory consolidation and novelty processing;

The effects of post-encoding stress on cellular and system consolidation;

The effects of stress on memory retrieval and reconsolidation;

The effects of cortisol/corticosterone on synaptic plasticity and gene expression in the hippocampus;

The role of the endocannabinoid system in the hippocampus and basolateral amygdala for the emotional modulation of memory;





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI