



biology



an Open Access Journal by MDPI

Mechanisms Underlying Neuronal Network Activity

Guest Editor:

Dr. Jorge Flores-Hernandez

Laboratorio de
Neuromodulación, Instituto de
Fisiología, BUAP, Puebla 72570,
Mexico

Deadline for manuscript
submissions:

31 May 2025

Message from the Guest Editor

Dear Colleagues,

I invite you to review the state of the art related to NMDA receptors and how acetylcholine can modulate brain circuits. New findings imply that acetylcholine can coactivate NMDA receptors. Acetylcholine is produced by Meynert nuclei or in cholinergic interneurons in the basal ganglia, among other cholinergic nuclei in central nervous system. Usually, glycine is proposed as a coactivator. However, in the central nervous system, expressly in the brain cortex, we do not have glycinergic cells. Thus, this may warrant further research.

Dr. Jorge Flores-Hernandez
Guest Editor



mdpi.com/si/207482

Special Issue



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in
Molecular and Integrative
Biosciences, Faculty of Biological
and Environmental Sciences,
University of Helsinki, P.O. Box
56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology
Institute, University of Valencia
and CSIC, 46980 Valencia, Spain

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

Contact Us

Biology Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/biology
biology@mdpi.com
[X@Biology_MDPI](https://twitter.com/Biology_MDPI)