Special Issue

Neuropharmacology and Brain Physiology: From Molecular Mechanisms to Medicines Application

Message from the Guest Editor

Neuropharmacology is a dynamic field that has seen significant advancements in recent years. Research has uncovered intricate details about the neurotransmitter systems, receptor dynamics, and intracellular signaling pathways that regulate neuronal activity and synaptic plasticity. For instance, studies on the dopaminergic system have elucidated its role in reward processing and motor control, while investigations into glutamatergic and GABAergic systems have shed light on excitatory and inhibitory balance in the brain. Moreover, the molecular mechanisms underlying neuropsychiatric and neurodegenerative disorders, have been increasingly delineated, revealing potential targets for pharmacological intervention. This Special Issue will highlight the translational aspect of neuropharmacology by presenting research on the development of novel pharmacological agents and therapeutic strategies aimed at modulating these molecular targets. Researchers are invited to submit original research articles, reviews, and perspectives that contribute to this dynamic and evolving field.

Guest Editor

Dr. Gustavo Provensi

Department of Neurosciences, Psychology, Drug Research and Child Health (NEUROFARBA)—Pharmacology and Toxicology Session, University of Florence (UNIFI), 50139 Florence, Italy

Deadline for manuscript submissions

closed (31 July 2025)



Current Issues in Molecular Biology

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 3.7 Indexed in PubMed



mdpi.com/si/209392

Current Issues in Molecular Biology Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 cimb@mdpi.com

mdpi.com/journal/cimb





Current Issues in Molecular Biology

an Open Access Journal by MDPI

Impact Factor 3.0 CiteScore 3.7 Indexed in PubMed

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Madhav Bhatia

Department of Pathology and Biomedical Science, University of Otago, Christchurch, 2 Riccarton Avenue, P.O. Box 4345, Christchurch 8140, New Zealand

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PMC, PubMed, Embase, CAPlus / SciFinder, FSTA, AGRIS, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and reviewer names are published annually in the journal.

