

Special Issue

Neurodevelopmental Disorders: Genetic Studies and Therapeutic Strategies

Message from the Guest Editors

Neurodevelopmental disorders (NDDs) have been modeled in laboratory mice and rats through a variety of genetic and environmental approaches over the past few decades. Mouse models based on genetic mutations have been widely employed to explore the pathological mechanisms underlying NDDs and to identify novel therapeutic targets. Our Special Issue will focus on such preclinical research, providing novel insight into the molecular pathways involved in NDDs and suggesting valid therapeutic approaches. We welcome studies involving basic research on rodent models of all NDDs, including Autism spectrum disorders, Schizophrenia, Down syndrome, and rare NDDs. Articles proposing novel pharmacological and non-pharmacological therapeutic approaches in pre-clinical models, as well as those investigating pathological pathways, are strongly encouraged. Findings describing novel genetic rodent models of NDDs will be included; pertinent non-genetic approaches will also be considered.

Guest Editors

Dr. Susanna Pietropaolo

Univ. Bordeaux, CNRS, Aquitaine Institute for Cognitive and Integrative Neurosciences, UMR5287, 33405 Bordeaux, France

Dr. Bruno Bontempi

Univ. Bordeaux, CNRS, INCIA, UMR 5287, 33076 Bordeaux, France

Deadline for manuscript submissions

31 January 2026



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/173961

Biomolecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)



About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)