

Special Issue

Therapeutic Applications of Neural Stem Cells & Extracellular Vesicles

Message from the Guest Editor

Biologics involving neural stem cells (NSCs) and extracellular vesicles (EVs) are transforming therapeutic approaches for neurological disorders. Over the past five years, neural stem cell-derived progeny and extracellular vesicles have made their way to clinical trials as potential treatments for intractable diseases, such as Parkinson's disease, Alzheimer disease, dementias, amyotrophic lateral sclerosis, stroke, traumatic brain injury and spinal cord injury. However, there still remain critical challenges in translating these therapies to patients. In this Special Issue, we will address the current progress and challenges in the development of therapeutic NSCs and EVs: 1) methods for controlling the identity, purity and potency of these biologics, in order to produce optimal therapeutic effects; 2) their isolation, perpetuation and characterization; 3) their impact of cellular composition and delivery methods on efficacy and translation from animal models to patients.

Guest Editor

Dr. Marcel M. Daadi

1. Southwest National Primate Research Center, Texas Biomedical Research Institute, San Antonio, TX 78245-0549, USA
2. Department of Radiology, Long School of Medicine, University of Texas Health San Antonio, San Antonio, TX 78229-3900, USA

Deadline for manuscript submissions

closed (31 March 2022)



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/77479

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)