







an Open Access Journal by MDPI

Drug Screening in Experimental and Clinical Studies Targeting the Blood Brain Barrier

Guest Editor

Dr. Beatrice Mihaela Radu

Department of Anatomy, Animal Physiology and Biophysics, Faculty of Biology, University of Bucharest, Bucharest, Romania

Deadline for manuscript submissions:

closed (15 October 2021)

Message from the Guest Editor

Blood brain barrier (BBB) is a key regulator for the access of any drug to the brain parenchyma. Various drugs may either directly affect the transport through these systems. or indirectly regulate their gene/protein expression, thus contributing to their up/downregulation internalization mechanisms, that finally affects the expected drug transport across the BBB. For this reason, accurate information regarding the interaction with drugs or their permeability through the BBB is necessary, making drug screening and drug safety assays mandatory for any commercial or newly synthesized drug. Moreover, the mechanisms behind BBB alterations in various pathologies must be understood to ensure the optimal drug delivery. To this purpose, experimental in silico, in vitro, and in vivo studies have brought essential information for drug development. Additionally, several strategies have been developed to increase the efficiency of drug delivery to brain parenchyma, especially in clinical situations (i.e. neuro-oncology, pharmacoresistance), where transport mechanisms are altered due to the pathological condition.













an Open Access Journal by MDPI

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

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.

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 & Molecular Biology*) / CiteScore - Q1 (*Biochemistry*)

Contact Us