

Special Issue

Drug Delivery across the Blood–Brain Barrier: Latest Advances and Prospects

Message from the Guest Editor

The structural and physiological properties of the blood–brain barrier (BBB) present a challenging obstacle to drug delivery to the central nervous system (CNS), limiting the treatment of many CNS diseases. The therapeutic molecule must reach the target cell in a sufficient concentration and in a suitable time frame in order for the treatment to be effective. Different approaches to improve delivery and circumvent the BBB may be local, regional, or global, and can be simulated by using *in silico*, *in vitro*, and *in vivo* models to understand and improve the specific mechanisms of drug permeation across the BBB. Overall, these experimental and theoretical techniques and strategies at different levels of complexity could provide new insights and future directions for diagnosis, treatment improvement, and a deeper understanding of BBB-related neuropathological events.

Guest Editor

Prof. Dr. Sergey Shityakov

Infochemistry Scientific Center, ITMO University, Lomonosova str, 9, Saint-Petersburg 191002, Russia

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Patrick J. Sinko

Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, William Levine Hall, Room 225C, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020, USA

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