Special Issue

Advances in Nanoparticle-Driven Approaches for Targeted Brain Drug Delivery

Message from the Guest Editors

The effective treatment of various central nervous system disorders remains a challenge. To deliver a sufficient therapeutic concentration of a drug to the intended site of action in the brain in a predictable/controlled manner, various nanoparticlebased drug delivery systems have been proposed, such as ligand-functionalized or stimuli-responsive nanocarriers, often in combination with transient BBB disruption (e.g., focused ultrasound waves, osmotic agents) or alternative delivery routes (e.g., intranasal route, meningeal lymphatic reverse pathway), This Special Issue aims to collect recent developments and challenges related to various nanoparticle-driven strategies for overcoming the BBB, thus contributing to the creation of new avenues for the successful treatment of brain disorders. We welcome articles covering a wide range of topics related to the following areas, among others: novel nanoparticle designs and combinational strategies for targeted brain drug delivery, in vitro/in vivo fate and interactions with the biological environment, biocompatibility and safety assessments, translational research, and regulatory perspectives.

Guest Editors

Prof. Dr. Snezana Savic

Department of Pharmaceutical Technology and Cosmetology, Faculty of Pharmacy, University of Belgrade, Vojvode Stepe 450, 11221 Belgrade, Serbia

Dr. Tanja Ilić

Department of Pharmaceutical Technology and Cosmetology, Faculty of Pharmacy, University of Belgrade, Vojvode Stepe 450, 11221 Belgrade, Serbia

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

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Editor-in-Chief

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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