

Special Issue

Drug Delivery to Brain Tumors

Message from the Guest Editors

Clinical outcomes following treatment of primary malignant brain tumors are far from satisfactory. One of the main obstacles to the development of effective therapies is failure to achieve therapeutically relevant concentrations in the CNS due to the presence of blood–brain and/or blood–brain–tumor barriers. Some of the approaches explored to address this challenge include blood–brain barrier disruption and drug modifications to enhance CNS permeability; unfortunately, neither approach has proven successful. Another approach is to deliver therapeutics locoregionally, directly into the tumor mass and surrounding tumor-infiltrated brain parenchyma. The most widely used method for direct brain delivery is convection-enhanced delivery (CED), whereby specially designed catheters are introduced into target tissue and the infusate is delivered slowly over a prolonged period of time. CED enables delivery of conventional, nano-, bio-, gene, and even cellular therapies. This Special Issue provides a highlight of the most recent progress made to improve the efficacy of therapeutics delivered directly to brain tumors.

Guest Editors

Prof. Dr. Waldemar Debinski

Brain Tumor Center of Excellence, Department of Cancer Biology, Wake Forest University School of Medicine, Comprehensive Cancer Center of Wake Forest Baptist Medical Center, Winston-Salem, NC 27157, USA

Prof. Dr. Michael Vogelbaum

Program Leader of NeuroOncology and Chief of Neurosurgery, Department of NeuroOncology, Moffitt Cancer Center, Tampa, FL, USA

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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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