



## Drug Delivery to the Brain

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### Message from the Guest Editor

Dear colleagues,

The blood–brain barrier (BBB) and blood–cerebrospinal fluid (BCSF) barriers are critical determinants of CNS homeostasis. Additionally, the BBB and BCSF barriers are formidable obstacles to effective drug delivery to the brain. These barrier tissues are characterized by highly limited paracellular transport and expression of numerous efflux transporters that greatly restrict the ability of small and large molecule drugs to access therapeutic targets in brain tissue. Over the past many years, multiple approaches have been developed in an effort to circumvent brain barriers and improve the pharmacotherapy of neurological diseases. In this Issue of *Pharmaceutics*, critical considerations for drug permeation across brain barriers will be discussed, and state-of-the-art current and future strategies for effective CNS drug delivery will be rigorously reviewed. Additionally, remaining challenges for the treatment of neurological diseases will be outlined with an emphasis on how solutions to such issues can be provided via cutting edge preclinical and clinical studies.





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