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## Blood–Brain Barrier: From Physiology to Disease and Back

Guest Editor:

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Deadline for manuscript submissions:

**closed (15 June 2023)**

### **Message from the Guest Editor**

The blood–brain barrier (BBB) is the interface between the central nervous system (CNS) and the cerebral blood circulation. It is a dynamic barrier essential for maintaining the microenvironment of the brain. Compromised BBBs have been found in various neurological disorders including schizophrenia, autism, Alzheimer’s disease, and brain tumors, to name a few. The biomimetic BBBs derived from hiSPCs not only enable the cost-effective development of systemic drug delivery methods but also drug screening targeting the neurovascular coupling for these neurological disorders. This Special Issue thus aims to collect contributions on topics including 1) the development and characterization of the BBB from primary and hiPSC-derived cells, as well as cell lines in health and disease; 2) the investigation of molecular and cellular mechanisms for compromised BBBs in neurological disorders; 3) the development of methods for drug delivery across the BBB; 4) drug screening utilizing the developed BBBs for the treatment of neurological disorders; and 5) the investigation of immune- and tumor-cell adhesion to and transmigration across the BBB.



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**Special** Issue



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