

Special Issue

The Blood–Brain Barrier and Neuroprotection

Message from the Guest Editors

The blood–brain barrier (BBB) plays a regulatory role of the central nervous system (CNS) in maintaining homeostasis for normal brain function. In acute or chronic diseases, the BBB breakdown occurs, leading to extravasation of unwanted substances, e.g., proteins, hormones, toxins, and other harmful elements, into the brain, resulting in brain pathology. Thus, regulation of the BBB is one of the critical factors in health and disease. This Special Issue aims to explore the role of the BBB in modifying the disease processes using conventional and nanoformulations to maintain the integrity of the BBB in neurodegenerative diseases in pre-clinical and clinical conditions. Involvement of the molecular mechanisms of BBB integrity and repair will be discussed in various acute and chronic neurodegenerative diseases. We hope that this Special Issue will widen our understanding of BBB and brain diseases and enhance our knowledge of therapy.

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