

Special Issue

Blood–Brain Barrier: Latest Research

Message from the Guest Editors

The blood–brain barrier (BBB) is part of the brain's protective mechanisms; it is a specialized microvasculature that protects neural tissue by preventing the extravasation of blood products while actively exporting undesirable metabolites from the brain to blood. It allows essential nutrients and minerals to enter and ensures nutrient homeostasis. The endothelial cell's distinct luminal and abluminal membranes function as part of the neurovascular unit (NVU), which comprises energetic vascular endothelial cells, glial cells, pericytes, and microglia as well as closely associated astrocytic processes. In this Special Issue on the BBB, we welcome articles pertaining to recent progress in BBB research from basic structural biology to new emerging therapeutic modalities, including translational predictions between in vivo and in vitro systems, and recent clinical advances across modalities.

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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