

Special Issue

Exploiting the Specialization of the Blood–Brain Barrier to Deliver Therapies to the Brain

Message from the Guest Editor

Overcoming the blood–brain barrier (BBB) to efficiently deliver theranostics to the brain will revolutionize the diagnosis and treatment of neurological disorders. In this Special Issue, original research articles and reviews are welcome in research areas including (but not limited to): brain endothelial cell physiology specialization (e.g., tight junction stability, cell-surface protein dynamics, glycocalyx variations, endocytic activity modulation, arterio-venous differentiation); cell trafficking mechanisms governing transcytosis (e.g., ligand–receptor affinity, intracellular protein mediators, vesicular tubulation, endosomal escape); modulation of BBB function by the neurovascular unit; and innovative drug delivery strategies exploiting these characteristics. We aim to establish a focus point to foment the development of next-generation brain targeting strategies which embrace the physiology of the BBB for the improved delivery of therapies into the brain. I look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

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