

Special Issue

Regulation of Cerebrovascular Resistance in Health and Disease: From Molecules to Humans

Message from the Guest Editor

Optimal cerebrovascular perfusion is vital for maintaining healthy brain function. This complete task is achieved by different and appropriate mechanisms regulating the resistance of various extracranial and intracranial vessels.

One of the specific attributes of cerebral circulation is its well-developed autoregulation. This tight control of cerebral blood flow is crucial to maintaining a relatively constant blood supply of the brain, as well as intracranial blood volume, and at the same time to comply with the limited space available in the skull.

Thus, small intracranial cerebral arteries have a well-developed constrictor function. On the other hand, this limitation does not affect extracranial arteries, allowing them to dilate freely, thus providing increased blood flow to the brain.

We invite the submission of manuscripts to this Special Issue that will contribute to improving our understanding of the mechanisms responsible for the appropriate supply and autoregulation of cerebral blood flow and reveal the pathomechanisms responsible for disease relate conditions fostering the development of appropriate preventions and therapies.

Guest Editor

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