Special Issue

Advances in translocator protein (TSPO) research

Message from the Guest Editor

The 18 kDa translocator protein (TSPO) is a receptor molecule expressed throughout the body, including in the brain. At the cellular level, the primary location of this 18 kDa protein is the outer mitochondrial membrane. Interestingly, among the central functions of TSPO is the modulation of cell nuclear gene expression via the mitochondria to the cell nucleus signaling pathway. Via this modulation of numerous cellular functions, TSPO is able to take part in homeostasis of the cell and organism, including responses to disease, injury, and stress. Thus, it is no surprise that TSPO has been shown to be involved in various diseases and injurious processes. Such disorders include neurodegenerative diseases and brain injury, in particular the chronic progressive components of these disorders; cardiovascular disorders; mental and emotional disorders; and cancer. Therefore, TSPO has attracted attention as a potential area to develop therapeutic and diagnostic applications for various diseases.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2022)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/76923

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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