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Advances in translocator protein (TSPO) research

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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.



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Special Issue



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