Special Issue

Neuroinflammation Linked to Metabolic Disorders

Message from the Guest Editor

Neuroinflammation is considered a potential causal factor for several brain-related diseases including neurodegenerative diseases. Indeed, the augmentation of pro-inflammatory cytokines is linked to many neurodegenerative pathways that are associated with depression and dementia. Besides, neuroinflammation is also linked to metabolic disorders. Metabolic disorders also named metabolic syndrome include diabetes and obesity are generally associated with low-grade inflammation. Neuroinflammation related to obesity has been considered to preferentially target the hypothalamus, but however, more recent studies reported that obesity-derived neuroinflammation could affect other brain areas such as the hippocampus, cortex, brainstream, or amygdala. It is noteworthy that metabolic disorders such as insulin resistance and obesity are also linked to neurodegenerative diseases most likely through neuroinflammatory mechanisms. The cellular and molecular mechanisms linking neuroinflammation to the onset of metabolic disorders are still poorly documented, especially the cross-talk between microglia and neurons/astrocytes/tanycytes, as well as the implicated signaling pathways.

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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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