Special Issue

Tau-Targeted Treatment of Alzheimer's Disease

Message from the Guest Editors

The pathological aggregation of tau protein into neurofibrillary tangles is a defining feature of Alzheimer's disease, closely correlated with cognitive decline and neurodegeneration. Accordingly, there is a critical need to characterize the molecular mechanisms driving tau misfolding, hyperphosphorylation and propagation to gain deeper insights into disease onset and progression. This requires the development of relevant disease models and therapeutic strategies that effectively target tau pathology in vivo. While tau-targeted approaches to modify the course of Alzheimer's disease hold significant promise, their effectiveness in experimental and clinical settings remains to be fully realized. This Special Issue will examine the molecular pathogenesis of tauopathy; emerging tau-centric therapeutic strategies, including immunotherapies, small-molecule inhibitors and gene therapies; the development and characterization of cellular and animal models for mechanistic study and drug screening; mechanisms of tau propagation and trans-synaptic spread and the identification of molecular biomarkers in model systems for diagnosing, staging and monitoring pathological progression.

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Message from the Editorial Board

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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