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Advances in the Understanding of Frontotemporal Dementia

Guest Editors:

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Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Frontotemporal dementia (FTD) is an umbrella term that comprises a group of early onset neurodegenerative dementias characterised by progressive deficits in behaviour, executive function and language. As such there is no permanent cure for FTD with existing therapies focused on symptom control. A third of the FTD cases are of familial origin with mutations occurring in c9ORF72, progranulin and MAPT. Neuropathologically, abnormal cellular and nuclear inclusions are observed positive for tau, TDP-43 or FET proteins in brains of patients. Recent studies have highlighted molecular pathways associated with lysosomal dysfunction, synaptic loss, and neuroinflammation as putative culprits in disease pathogenesis in FTD.

Thus, this special issue will review the current understanding of FTD disease and aim to publish commentaries, original research articles and reviews relating to but not restricted to the following aspects:

Genetic and sporadic FTD

Cellular and animal models of FTD

Molecular pathways in FTD

Pathogenic heterogeneity

Fluid biomarkers

RNA splicing

Non-coding RNAs

RNA binding proteins (stress granules/paraspeckles)

Potential therapies for FTD

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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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