Special Issue

Intracellular Nucleocytoplasmic Trafficking in Neurodegenerative Disease

Message from the Guest Editor

Survival and growth of eukaryotes is dependent on patterns of gene expression which, in part, are determined by the availability of genes for transcription. The availability of genes for transcription is inherently dependent on the movement of proteins and RNA between the cell nucleus, where the genome is housed, and the cell cytoplasm, where protein synthesis and cellular respiration, among other essential functions, occurs. Conversely, transport between the cell cytoplasm and the nucleus is an essential component of the mechanism that determines how the nucleus, epigenome and DNA structure respond to changes in the cytoplasm. A growing body of evidence has established that mechanisms of exchange between the cell nucleus and cytoplasm, nucleocytoplasmic exchange, are severely disrupted in Alzheimer's disease, ALS and other neurodegenerative diseases. Yet many aspects of this disruption in nucleocytoplasmic transport remain unknown. This special issue is designed to provide information that addresses these issues in whole or in part. For further information, please visit the Special Issue website.

Guest Editor

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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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