Special Issue

Focus on Cellular Parkinson's Disease—from Gut to Brain

Message from the Guest Editor

Parkinson's disease (PD) is an irreversible neurodegenerative disorder that clinically manifests in uncontrolled motor and specific non-motor symptoms (e.g., constipation). There are two primary cellular hallmark features of Parkinson's disease: an irreversible loss of dopaminergic neurons of the substantia nigra pars compacta located within the midbrain, and the formation of intracellular insoluble aggregates called Lewy bodies (LBs). LBs are deposits of lipids and proteins with a dominant component of the LBs identified as a small protein called alpha-synuclein. There is increasing evidence suggesting an interplay between the aggregation of this protein and dopaminergic cell death. Many cellular models of Parkinson's disease are used in pre-clinical research, but while laboratory studies provide important mechanistic and drug-development knowledge, they also need to be applicable to clinical practice and translational in nature. This Special Issue of *Cells* is seeking the submission of papers that use cellular models of PD in the context of mechanistic or drug discovery research while taking the multifactorial clinical manifestation of PD into account.

Guest Editor

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Deadline for manuscript submissions

closed (20 July 2022)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/102029

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About the Journal

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).