

Special Issue

Proteomic Applications in Ageing and Neurodegenerative Conditions

Message from the Guest Editors

Advances in mass spectrometric technologies, separation sciences and associated informatics have ushered proteomics technologies to a position where we can address questions at the level of the effector molecule with sensitivity and precision greater than ever before. Probing thousands of proteins from clinical and biofluid samples or in tissues in the context of cellular and subcellular localisations and their post-translational variants now offer unprecedented opportunities in characterising complex disease phenotypes. The sheer breadth of data potentially generated by these advanced MS technologies encompasses analyte subsets ranging from lipids, metabolites, peptides, proteins and post-translational modifications. Each technique harbours its own merits and challenges, from experimental design to sample processing and data handling. This Special Issue will comprise new manuscripts describing the limitations and considerations required for effective -omics experimentation and novel research demonstrating the importance of MS-based -omics to our understanding of the molecular underpinnings of processes informing on and/or regulating ageing and/or neurodegeneration.

Guest Editors

Prof. Dr. Thomas Wishart

Dr. Rachel A. Kline

Dr. Dominic Kurian

Deadline for manuscript submissions

closed (31 July 2025)



Cells

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Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



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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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JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

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).