

Special Issue

Profiling of Secondary Metabolites with Mass Spectroscopy-Based Methods

Message from the Guest Editors

Nearly all organisms except birds and mammals produce secondary, or as they are recently called, specialized metabolites. They comprise terpenoids, aromatic and non-aromatic polyketides, phenols, alkaloids and non-ribosomal peptides. In attempts to explore their often-controversial biological function, efficient qualitative and quantitative analytical methods are required for analysis. Linking gas- and liquid chromatography to mass spectrometry has developed into the method of choice for state-of-the-art profiling for secondary metabolites. The aim of this Special Issue is to provide an overview on the analysis of secondary metabolites in the age of metabolomics with mass spectrometry-based methods. Comments on useful statistical methods, available databases for structure elucidation and progress in methodology are welcome. We hope that the insights presented from expert laboratories will be a valuable guide for the community of researchers investigating secondary metabolites besides of primary (sugars, organic- and amino acids amongst others) that usually represent the focus in metabolomic studies.

Guest Editors

Dr. Franz Hadacek

Department of Plant Biochemistry, Albrecht-von-Haller-Institute, Georg-August-Universität-Göttingen, 37073 Göttingen, Germany

Prof. Dr. Petr Karlovsky

Molecular Phytopathology and Mycotoxin Research, Georg-August-Universität Göttingen, Göttingen, Germany

Deadline for manuscript submissions

closed (25 September 2022)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/61434

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

[mdpi.com/journal/
cells](https://mdpi.com/journal/cells)





Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



[mdpi.com/journal/
cells](https://mdpi.com/journal/cells)



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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities, 6-145 Jackson Hall, 321 Church St SE,
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,
Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

Journal Rank:

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 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).