

Special Issue

Phytofactories: From Lab to Applications

Message from the Guest Editors

This Special Issue will focus on the exploitation of plant diversity through cell and tissue cultures, examining the full valorization chain of plant resources. We aim to highlight advancements in the production and characterization of specialized plant metabolites and their industrial applications. Topics will include advances in callogenesis, hairy root formation, and plant regeneration; specialty molecule production; process optimization; metabolic engineering; and bioprocessing. The issue will also explore the challenges and future prospects of phytofactories, as well as germplasm preservation technologies. We invite contributions that bridge basic research with practical applications, advancing the use of plant-based systems for sustainable production of high-value compounds.

Guest Editors

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Dr. Kjell Sergeant

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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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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).