

## Special Issue

# Contribution of Omics Sciences to Agricultural Biotechnology

### Message from the Guest Editors

Omics sciences facilitate a systems biology approach to unravel the intricate interactions among genes, proteins, and metabolites that shape phenotypes. This holistic strategy depends significantly on high-throughput technologies, bioinformatics, large-scale computational analyses, and diverse biological disciplines. As a result, it drives advancements in (i) improving crop quality and yield; (ii) enhancing the nutritional composition of agrifoods; (iii) deepening our understanding of the molecular mechanisms underlying resistance to (a)biotic stresses; and (iv) deciphering the functional dynamics of plant–microbe interactions. This Special Issue invites contributions that explore these themes, encompassing experimental studies, computational modeling based on basic cell biology experiments, methodological innovations, and comprehensive reviews.

Interdisciplinary approaches integrating diverse fields of biology are particularly encouraged to deepen our understanding of these complex biological phenomena.

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### Guest Editors

Dr. Sara Rinalducci  
Dr. Nunzio D'Agostino  
Dr. Giuseppina Fanelli

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### Deadline for manuscript submissions

closed (30 September 2025)



## Cells

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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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### Editors-in-Chief

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