Special Issue

Understanding the Host/Microbe–Microbe Interactions in Human Diseases: From Imaging Technologies to Multi-omics Approaches

Message from the Guest Editor

Optical imaging plays a crucial role in unraveling the intricate dynamics of host–microbe and microbe–microbe interactions. By employing various optical modalities such as fluorescence microscopy, confocal microscopy, super-resolution microscopy, and nonlinear label-free chemical imaging, researchers can delve into the spatial and temporal aspects of these interactions with remarkable precision. Optical imaging enables the observation of cellular and subcellular events, allowing scientists to track the movement, adhesion, and communication between host cells and microbes or among different microorganisms. This powerful tool not only enhances our understanding of the molecular mechanisms governing these interactions but also facilitates the development of targeted interventions and therapies to modulate host–microbe relationships or control microbial communities. Overall, optical imaging serves as an indispensable tool in the study of host/microbe–microbe interactions, providing invaluable insights that contribute to advancements in microbiology and immunology.

Guest Editor

Dr. Puting Dong
Department of Microbiology, The ADA Forsyth Institute, Boston, MA 02142, USA

Deadline for manuscript submissions

closed (31 August 2024)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/195484

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

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

MDPI

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
Dental Basic Sciences, University of Minnesota, 308 Harvard 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).