

Topical Collection

Computational Imaging for Biophotonics and Biomedicine

Message from the Collection Editors

Due to the improvement of advanced algorithms and computational power, computational imaging has experienced tremendous growth in recent years and has attracted the attention of many researchers, which may evolve the conventional imaging technologies and bring many exciting opportunities for biophotonics and biomedicine. Therefore, we are writing to invite you to participate by submitting a manuscript to a Special Issue of *Cells* (IF=6.6). This Special Issue plans to give an overview of the most recent advances in the field of computational imaging and their applications in biophotonics and biomedicine. The aim of this Special Issue is to provide selected contributions on advances in both technology developments, as well as basic and clinical applications. Potential topics include, but are not limited to, the following:

- Advanced technologies in microscopy and spectroscopy;
- Quantitative phase imaging;
- Optical super-resolution imaging;
- Optofluidics and on-chip microscopy;
- Scattering imaging and tomography;
- Machine learning and AI.

Collection Editors

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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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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 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).