Special Issue

Advances of Deep Learning in Cell Biology

Message from the Guest Editor

Deep learning is expected to explore beyond our knowledge to interpret cell biology data. A variety of deep architectures has evolved into deep learning, such as autoencoders, convolutional neural networks, recurrent neural networks, long short-term memory, transfer learning, generative adversarial network, and graph neural networks. Therefore, we have initiated such a Special Issue to provide a forum for advances in the development and application of deep learning-based tools in cell biology. Original studies, reviews, methods, and reports on tools, etc. are all welcome. We welcome submissions related to but not limited to the following topics:

- Deep Learning
- Machine Learning
- Cell Biology
- Bioinformatics
- Computational Biology
- High-Throughput Sequencing
- Data Integration
- Genomic Medicine
- Drug Discovery
- Single-cell Omics Analysis
- Precision Medicine
- RNA/Protein Structure Prediction
- Cancer Genomics
- Graph Neural Network
- Transfer Learning
- Generative Adversarial Network
- Autoencoder

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Deadline for manuscript submissions

closed (15 February 2023)

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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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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).