

Special Issue

Molecular Regulation in Ocular Physiology and Diseases

Message from the Guest Editor

The vertebrate eye is a highly specialized sensory organ resulting from structures derived from the neural tube called optic vesicles. During embryogenesis, ocular development is controlled by several intracellular and extracellular signaling pathways. These signaling pathways play essential roles in several developmental processes, including cell proliferation and cell fate determination. While the activity of these pathways is tightly controlled during development, dysregulation can result in multiple ocular malformations. Furthermore, faulty regulation of several signaling pathways has been associated with ocular pathologies in post-natal life. This Topic will highlight the role of several key signaling pathways involved in eye development and how their dysregulation contributes to ocular diseases.

Guest Editor

Dr. Bruno Larrivée

Centre de Recherche de Maisonneuve-Rosemont, Département d'ophtalmologie, Université de Montréal, Montreal, QC H3G 1Y6, Canada

Deadline for manuscript submissions

closed (31 December 2023)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.1
CiteScore 9.9
Indexed in PubMed



mdpi.com/si/118552

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

[mdpi.com/journal/
cells](https://mdpi.com/journal/cells)





Cells

an Open Access Journal
by MDPI

Impact Factor 5.1
CiteScore 9.9
Indexed in PubMed



[mdpi.com/journal/
cells](https://mdpi.com/journal/cells)



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

Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities, 6-145 Jackson Hall, 321 Church 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 17.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2024).