Special Issue

Molecular and Cellular Mechanisms of Corneal Disease

Message from the Guest Editor

The human cornea is a crystal-clear tissue covering the front of the eye. Its architecture and organization ensure visual acuity. The corneal microenvironment consist of five distinct (three cellular and two acellular) layers. Corneal trauma and/or diseases can have irreversible and devastating results that lead to partial or total blindness. Many factors can affect the ending of corneal disorders, and ultimately determine vision and life quality. This is further highlighted by the fact that corneal transplantation remains the gold standard treatment for patients with significant corneal injury/trauma. A multidisciplinary approach seems necessary in order to tackle the complex pathobiology of corneal disease and trauma. The main aim of this Special Issue is to bring together all experts in the corneal field and publish cutting-edge research that can significantly advance our knowledge and transform future therapies. From the corneal epithelium to the endothelium, all contributions are welcome.

Guest Editor

Prof. Dr. Dimitrios Karamichos

North Texas Eye Research Institute (NTERI), University of North Texas Health Science Center, Fort Worth, TX 76107, USA

Deadline for manuscript submissions

closed (28 February 2021)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/37567

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 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).