



cells



an Open Access Journal by MDPI

Autophagy Lysosomal Pathway in Ocular Physiology and Pathophysiology

Guest Editor:

Dr. Paloma B. Liton

Departments of Ophthalmology
& Pathology, Duke University,
Durham, NC, USA

Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editor

Dear Colleagues,

Autophagy is a dynamic catabolic process by which cytosolic material, including organelles, proteins, and pathogens, are delivered to the lysosome for degradation by the action of lysosomal hydrolases. Autophagy occurs at basal levels in all cell types and is upregulated under stress conditions, as part of the adaptive cellular response to stress, providing protective functions during tissue injury. Dysregulation of the autophagy lysosomal pathway, either by overactivation or deficiency, is associated with an array of diseases and disorders. In the eye, autophagy has been shown to play a key role in an array of physiological functions, from development to aging in all ocular tissues, including lens, retina, outflow pathway, and cornea.

This Special Issue of *Cells* is for contributions on autophagy and lysosomal pathways in the context of ocular physiology and pathophysiology. You are invited to submit your contributions in the form of original research articles, reviews, or shorter perspective articles. Relevant observations made at the cellular level could come from the following areas:

autophagy

lysosomes

eye

ocular diseases



mdpi.com/si/70114

Special Issue



cells



an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Cell Biology*) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](#)