

## Special Issue

# The Cell Biology of Coronavirus Infection

### Message from the Guest Editor

Coronaviruses are enveloped positive strand RNA viruses that infect mammals and birds. They have the interesting property of assembling at intracellular membranes. About 20% of common colds in humans are caused by coronaviruses. More severe diseases, including severe acute respiratory syndrome (SARS) and Middle East respiratory syndrome (MERS), are caused by novel coronaviruses that emerged from animal sources. Another novel coronavirus related to SARS coronavirus (SARS CoV-2) emerged in December 2019 and has spread globally, with significant mortality and economic impact. In this Special Issue of *Cells*, coronavirus infection will be examined from a cell biological perspective. Potential topics include virus entry, formation of replication organelles, genome replication and production of viral mRNA, synthesis and targeting of viral proteins, and assembly and budding in the endoplasmic reticulum-Golgi intermediate compartment and virion egress. How cells respond to coronavirus infection is another important potential topic, including how interferon-stimulated genes impact infection.

---

### Guest Editor

Prof. Carolyn Machamer

Department of Cell Biology, Johns Hopkins University School of Medicine, 725 N. Wolfe Street, 105 WBSB, Baltimore, MD 21205, USA

---

### Deadline for manuscript submissions

closed (15 January 2021)



## Cells

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 10.5  
Indexed in PubMed



[mdpi.com/si/43989](https://mdpi.com/si/43989)

*Cells*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[cells@mdpi.com](mailto:cells@mdpi.com)

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

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 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).