

## Special Issue

# Biomarkers and Cellular Biology in Perioperative Medicine

### Message from the Guest Editors

Surgical procedures alter tissue integrity, and contact with foreign materials implanted perioperatively induces a number of inflammatory reactions. Depending on the magnitude of such perioperative trauma, the molecular and cellular impact on homeostasis is tremendous, and postoperative injury-associated immunosuppression (IAI) has been shown to occur in a significant number of patients. The use of cardiopulmonary bypass (CPB), for example, may aggravate perioperative immunosuppression. However, biomarkers and cellular responses in perioperative medicine are generally neither specifically monitored nor well understood. This Special Issue aims to investigate current developments and mechanistic discoveries regarding the impact of surgical and interventional procedures on organ systems. We provide a wide range of state-of-the-art papers from respected experts in anesthesiology and perioperative medicine.

---

### Guest Editors

Prof. Dr. Markus M. Luedi

Department of Anaesthesiology and Pain Medicine, Inselspital, Bern University Hospital, University of Bern, 3010 Bern, Switzerland

Dr. Jan Larmann

Department of Anesthesiology, Heidelberg University Hospital, 69120 Heidelberg, Germany

---

### Deadline for manuscript submissions

closed (31 December 2022)



## Cells

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 10.5  
Indexed in PubMed



[mdpi.com/si/104868](https://mdpi.com/si/104868)

*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/](https://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

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 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).