

## Special Issue

# Emerging Mechanisms in B Cell Activation

### Message from the Guest Editors

B cells form a pivotal branch of adaptive immune system. Activation of B cells by specific antigens triggers a cell activation and differentiation cascade to mount high-affinity antibody responses. B cells can be activated by various forms of antigens as well as a cocktail of innate-type of signals but the molecular mechanisms of these processes still remain poorly understood. The technological advances in fields, such as microscopy, mechanobiology, molecular sensors, and proteomics, have recently opened new avenues in studying the cell biological events of B cell activation. This Special Issue will focus on different aspects of B cell activation and its regulation, from the cell surface receptors to the various cell biological events and ultimately to the changes in the transcriptional profiling and cell fate. We welcome original manuscripts, reports on new technologies or methodologies used to study B cell activation, as well as reviews on this topic.

### Guest Editors

Dr. Pieta Mattila

Faculty of Medicine, University of Turku, Abo, Finland

Dr. Maria-Isabel Yuseff

Departamento de Biología Celular y Molecular, Facultad de Ciencias Biológicas, Pontificia Universidad Católica de Chile, Santiago, Chile

### Deadline for manuscript submissions

closed (31 August 2023)



## Cells

an Open Access Journal  
by MDPI

Impact Factor 5.2  
CiteScore 10.5  
Indexed in PubMed



[mdpi.com/si/112944](https://mdpi.com/si/112944)

*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

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, CAPus / 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).