# **Special Issue**

# Microtubules in Nervous System Function

### Message from the Guest Editor

In neurons of the central nervous system, microtubules play important roles in shaping dendritic and axonal arbors, regulating cellular migration, and maintaining general function. Additionally, they serve as structures for the transport of proteins to the synapse and use molecular motors to specify which cargo they transport. Transient changes to microtubules in dendritic spines occur after long-term potentiation, and these changes are thought to be essential for learning and memory. Degradation of microtubules occurs in response to neuronal injury, and in neurodegenerative disease, disorganization of microtubules can occur. A recent focus in the field includes the study of posttranslational modifications and the binding of microtubuleassociated proteins to microtubules and how these influence development and function. Changes to the tubulin code affect how the microtubules shape the development and function of the nervous system. In this Special Issue, we will include papers that address the role that microtubules play in the nervous system, from the single cell level to the organism.

#### **Guest Editor**

Prof. Dr. Bonnie Firestein

Department of Cell Biology and Neuroscience, Rutgers, The State University of New Jersey, Piscataway, NJ 08854, USA

### Deadline for manuscript submissions

closed (15 December 2021)



## Cells

an Open Access Journal by MDPI

Impact Factor 5.2 CiteScore 10.5 Indexed in PubMed



mdpi.com/si/89135

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



## **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).

