Special Issue

Role of Zinc in Brain Homeostasis and Neurological Disorders

Message from the Guest Editor

That zinc is a critical factor in the health and development of the nervous system has long been recognized. Zinc is an essential contributor to normal cellular function through its roles as a cofactor for many enzymes, as a vital component of protein structures, and as an intracellular and extracellular signaling ion. The importance of maintaining zinc homeostasis is evidenced by the 24 zinc-transporting proteins that have evolved to transport zinc into and out of cells and between various cellular compartments, with altered levels of zinc being implicated in numerous disorders, including Alzheimer's disease, autism, schizophrenia and depression. This Special Issue will examine the role of zinc in the normal adult and developing brain and how zinc dyshomeostasis can lead to brain dysfunction. Prof. Dr. Richard H. Dyck

Guest Editor

Prof. Dr. Richard Dyck

1. Hotchkiss Brain Institute, University of Calgary, Calgary, AB T2N 1N4, Canada
2. Department of Psychology, University of Calgary, Calgary, AB T2N 1N4, Canada
3. Department of Cell Biology and Anatomy, University of Calgary, Calgary, AB T2N 1N4, Canada
4. President-Elect, International Society for Zinc Biology

Deadline for manuscript submissions

closed (30 June 2025)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/182174

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

mdpi.com/journal/cells

MDPI

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).