

Special Issue

Recent Insights into the Role of Metal Ions in the Nervous System

Message from the Guest Editor

Metal ions play indispensable roles in nervous system development, function, and plasticity, acting as essential cofactors in enzymatic reactions, modulators of synaptic transmission, and regulators of intracellular signalling pathways. In recent years, advances in molecular neuroscience, imaging, genetics, and metallomics have substantially expanded our understanding of how metal ions such as zinc, copper, iron, magnesium, calcium, and lithium influence neuronal excitability, circuit maturation, neuroimmune interactions, and behaviour. This Special Issue, "Recent Insights into the Role of Metal Ions in the Nervous System", will highlight emerging discoveries helping to elucidate the physiological roles of metal ions across molecular, cellular, circuit, and systems-level neuroscience. Topics of interest include, but are not limited to, metal ion homeostasis, metal-dependent synaptic and neuromodulatory mechanisms, interactions between metal ions and neurotransmitter systems, and the contribution of metal dyshomeostasis to neurodevelopmental, neuropsychiatric, and neurodegenerative disorders. We welcome original research articles, reviews, and perspectives.

Guest Editor

Prof. Dr. Richard H. 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

Deadline for manuscript submissions

31 July 2026



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/267353

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

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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

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Copenhagen, Denmark

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