# Special Issue

# Brain Channelopathies: From Molecular Mechanisms to Therapeutic Approach

## Message from the Guest Editor

Brain channelopathies are a primary cause of numerous brain disorders, including epilepsy, pain, headache, ataxia, and tinnitus, among others. In most cases, the cause genetic or autoimmune loss of function of voltage-gated or ligand-gated ion channels whose function cannot be compensatedfor by other channels sharing a similar function. For instance, loss of potassium channel function was found to be at the origin of temporal lobe epilepsy as well as headaches. Ion channels interactwith regulatory proteins, the absence of which can directly lead to the loss of ion channel function.In this Special Issue, we expect to shed new light on key cellular and molecular pathways involved in brain channelopathies. We are anticipating contributions from cellular neurophysiologists as well as cellular neurobiologists.The current Special Issue will accept original studies and state-of-art reviews in the field of brain channelopathies, written by scientists active in the field.  For further information, please visit Special Issue website.

## Guest Editor

Prof. Dr. Dominique Debanne
INSERM, Aix Marseille University, UNIS, UMR1072, Marseille, France

## Deadline for manuscript submissions

closed (15 March 2023)

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*Cells*
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

Prof. Dr. Alexander E. Kalyuzhny
Neuroscience, UMN Twin Cities, 6-145 Jackson Hall, 321 Church St SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2024).