

## Special Issue

# Ion Channels in Neurological and Psychological Disorders

### Message from the Guest Editor

Ion channels play a crucial role in maintaining the balance of ions across cell membranes, which is vital for the electrical activity of neurons and the proper functioning of the brain. Dysregulation of ion channels is implicated in a variety of neurological and psychological disorders, such as stroke, epilepsy, Alzheimer's and Parkinson's disease, schizophrenia, bipolar disorder, and drug addiction. Understanding the mechanisms through which ion channels influence these conditions can offer new insights into their pathophysiology and potential therapeutic targets. This Special Issue invites contributions that explore the role of ion channels in the context of neurological and psychological disorders. Authors are encouraged to submit original research articles, reviews, and perspectives that focus on the following:

- Mechanisms of ion channel dysfunction in neurological or psychological disorders;
- Novel ion channel-based therapies or potential drug targets;
- The impact of ion channel mutations on disease progression;
- Experimental models and methodologies, such as omics data, for studying ion channel behavior in disorders.

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### Guest Editor

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### Deadline for manuscript submissions

20 August 2026



## Biomolecules

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*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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