Special Issue

Migraine Management: Exploring Neural Clues

Message from the Guest Editor

Migraine is the second most disabling neurological disorder that affects over one billion people globally. Once considered primarily vascular, migraine is a complex neurovascular disorder involving both cortical and subcortical pathways. Recent advances have uncovered early neural cues, such as hypothalamic activation, abnormal thalamocortical processing, role of inflammation and mast cell activation, thus offering new targets for intervention. This Special Issue explores cutting-edge research into the neural mechanisms, biomarkers, and multidimensional therapies transforming migraine care. We highlight translational research and advances in pharmacological management, but also non-pharmacological treatments such as neuromodulation, wearable neurotech, and AI-based forecasting tools, behavioral therapies—such as cognitive behavioral therapy (CBT), biofeedback, and relaxation training—and structured trigger management, which remain foundational in preventing migraine chronification. The integration of neural insights with behavioral and technological interventions marks a new era in personalized migraine care.

Guest Editor

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Deadline for manuscript submissions

15 February 2026

Brain Sciences

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.6
Indexed in PubMed

mdpi.com/si/245456

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