

## Special Issue

# Modulating Brain Network Dynamics Through Training: Impacts on Perception, Cognition, and Action in Health and Disorder

### Message from the Guest Editor

This Special Issue aims to gather cutting-edge research exploring how various forms of behavioral training can modulate brain network dynamics, affecting perceptual processes, cognitive functions, and motor actions in both healthy individuals and those with neurological or psychiatric disorders.

Behavioral training includes activities such as physical exercises, cognitive exercises, motor skills practice, music, and video game playing. This Special Issue seeks to highlight research that delves into the mechanisms through which these training regimens bring about neural adaptations.

This includes examining how training can ameliorate deficits in perceptual, cognitive, and motor functions in individuals with conditions such as Alzheimer's disease, Parkinson's disease, stroke, and other neurological or psychiatric disorders. Exploring the impact of training on decision-making processes and the long-term sustainability of training-induced changes in brain network dynamics.

We encourage submissions that utilize advanced neuroimaging techniques, computational models, and interdisciplinary approaches to uncover the underlying principles of brain plasticity induced by training.

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### Guest Editor

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### Deadline for manuscript submissions

31 October 2025



## Brain Sciences

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## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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### Editor-in-Chief

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