

## Special Issue

# Human Brain Responses and Functional Brain Networks across the Lifespan

### Message from the Guest Editors

Life-long adaptation of human brain networks allows for responding to life-period-specific challenges. This enables increasingly complex cognitive functions during development and compensational processes during aging. Enhanced neuroplasticity occurs during development or is triggered by life-changing events and may have a sustained impact on the later stages of life. Recent studies increasingly mirror how brain development and function are influenced by social experiences. Human brain development further relates to risks of emerging mental health disorders or accelerated mental aging. These multifold aspects of adaptations in human brain networks through life can be characterized by event-related and oscillatory EEG or MEG measures. Their high temporal resolution specifically enables determining age-related changes in the temporal coordination of multiple neural activation patterns and their integration within functional neural networks. The aim of this Special Issue is to bring together a broad range of EEG/MEG studies to better understand the mechanisms and functions of brain changes through the lifespan.

---

### Guest Editors

Prof. Dr. Birgit Mathes

Human and Health Sciences, University of Bremen, 28359 Bremen, Germany

Prof. Dr. Canan Başar-Eroğlu

Faculty of Arts and Science, Izmir University of Economics, 35330 Izmir, Turkey

---

### Deadline for manuscript submissions

closed (29 July 2024)



## Brain Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/si/178595](https://mdpi.com/si/178595)

*Brain Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[brainsci@mdpi.com](mailto:brainsci@mdpi.com)

[mdpi.com/journal/  
brainsci](https://mdpi.com/journal/brainsci)





# Brain Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/journal/  
brainsci](https://mdpi.com/journal/brainsci)



## 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.

---

### Editor-in-Chief

Prof. Dr. Stephen D. Meriney

Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA  
15260, USA

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYINDEX, PsycInfo, CAPlus / SciFinder, and other databases.

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).

#### Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.