



Brain Dynamics and Connectivity from Birth through Adulthood

Guest Editor:

Dr. Ardalan Aarabi

Department of Neuroscience & Biomedical Engineering, School of Medicine, University of Picardie-Jules Verne, Amiens, France

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Message from the Guest Editor

In a wide variety of neurological and neuropsychological disorders, network disruption has been shown to better provide deeper insights into the topological patterns underlying neurocognitive dysfunctions. Neuroimaging studies have shifted from examining individual brain regions towards examining the whole brain as an integrative complex network to give rise to coherent perception, cognition and action. This special issue aims at presenting the latest findings on brain functions, structure and cognition with a particular emphasis on functional and structural connectivity in neurodevelopmental and aging groups.

Our topics of interest include (but are not limited to):

- Invasive/non-invasive brain imaging;
- Clinico-anatomical correlation studies;
- Multimodal imaging;
- Task-based/resting state functional connectivity (EEG, MEG, fMRI, fNIRS);
- Structural connectivity (DWI);
- Multimodal/multiscale brain connectivity analysis;
- Data-driven and model based brain connectivity analysis;
- Application of machine learning to structural and functional connectome mapping.





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Prof. Dr. Stephen D. Meriney

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

Message from the Editor-in-Chief

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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).

Contact Us

Brain Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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