Special Issue

Applications of fMRI (Functional Magnetic Resonance Imaging) in Neuropsychiatry and Neurological Disease

Message from the Guest Editor

Functional magnetic resonance imaging (fMRI) has emerged as an important tool in the study of brain function, offering non-invasive insights into the neural activity associated with both psychiatric and neurological disorders. This Special Issue will highlight advanced research that uses fMRI to explore the neural foundations of various conditions such as schizophrenia, Alzheimer's disease, epilepsy, and frontotemporal dementia. Contributions will explore advances in resting-state and task-based fMRI, functional connectivity analyses, and integration with other modalities such as EEG and PET. Emphasis will also be placed on the clinical translation of fMRI biomarkers for diagnosis, prognosis, and treatment monitoring. Innovative applications, including machine learning-based pattern recognition and individualized brain mapping, underscore the role of fMRI in precision medicine and, by encouraging interdisciplinary discussions among neuroscience, psychiatry, neurology, neuropsychology, and biomedical engineering, this Special Issue aims to advance our understanding of brain dysfunction and promote the development of fMRI-based tools for clinical decision-making.

Guest Editor

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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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