Special Issue

Advanced Functional Connectivity Analysis in Neuropsychiatric Disorders

Message from the Guest Editors

Patients with neuropsychiatric disorders often suffer from functional impairments in cognition, emotion and social behaviors. However, the neuropathology underlying dysfunctions in neuropsychiatric disorders remains unclear.

In the field of fMRI, functional connectivity (FC) has been demonstrated to be an effective and powerful way to study the neuropathology of neuropsychiatric disorders by examining alterations in neural circuitry functions. In recent years, studies have proposed several advanced connectivity methods, such as dynamic FC, effective connectivity, and distance-dependent and edge-based FC, which consider more details (e.g., direction, time, distance and communication between edges) for connectivity analysis and provide richer information than traditional FC in revealing the neuropathology underlying the clinical disorders.

Thus, this Special Issue focuses on the recent developments in the methods and models based on FC, and their applications in neuropsychiatric disorders. We expect that this will be beneficial for clinicians in understanding the nature, origins and neuropathological mechanisms of clinical symptoms in neuropsychiatric disorders.

Guest Editors

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