

Special Issue on **Altered Brain Networks in Parkinson's Disease: Neurophysiologic and Neuroimaging Studies**

CALL FOR PAPERS

Parkinson's disease is a brain disorder which causes severe movement disabilities. Though most studies of Parkinson's disease based on neuroimaging are on the abnormality of motor function and motor network, studies also indicate that it is much more than a motor disorder. Parkinson's disease affects nonmotor functions such as cognition, sleep, sensory processing, and autonomic function. Therefore, investigation of Parkinson's disease by integrating other nonmotor functions and brain modules into motor network would provide new insights and thus be beneficial to improve the treatments of both motor and nonmotor symptoms.

Nowadays, increasing number of studies provide evidence that brain works in an integrated way; that is, brain regions cooperate with each other but not as a collection of segregated regions. Researches on the brain network offer an approach for exploring the way different brain areas work collectively at network level. In addition, various neuroimaging techniques, such as EEG, fMRI, and PET, provide us with efficient tools to construct the neural networks with high temporal and spatial resolutions. With resourceful tools and implication of a different view of Parkinson's disease, we now require more sophisticated and tailored algorithms for various neuroimaging techniques to understand neural networks related to Parkinson's disease. The purpose of this special issue is to publish high-quality research papers addressing recent advances on brain's neural network related to Parkinson's disease.

Potential topics include but are not limited to the following:

- ▶ Altered brain network in PD patients based on high spatial resolution techniques such as functional and structural magnetic resonance imaging
- ▶ Altered brain network in PD patients based on high temporal resolution techniques such as Electroencephalography and Magnetoencephalography
- ▶ Altered brain network in PD patients based on synchronous recording systems, such as EEG-fMRI
- ▶ Altered behavioral and brain network in PD patients during performing cognitive tasks including but not limited to attention, memory, language, and decision
- ▶ Altered brain network in PD patients during different states including but not limited to sleep stages or emotional states
- ▶ Altered brain network in PD patients after treatments such as medication and deep brain stimulation

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/pd/abnp/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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