

Special Issue

New Approaches in the Exploration of Parkinson's Disease

Message from the Guest Editors

Parkinson's disease (PD) is a chronic, complex, and progressive neurodegenerative disease defined by the loss of dopaminergic neurons in the substantia nigra pars compacta, situated in the midbrain and associated with Lewy bodies, which are cytoplasmic inclusions of alpha-synuclein aggregates. Clinical diagnosis of PD is based primarily on motor symptoms, such as a slowly progressive asymmetric resting tremor, rigidity, and bradykinesia. Although non-motor symptoms, which include olfactory deficits, constipation, autonomic dysfunction, depression, and REM sleep behavior disorder, usually precede the presence of motor deficits.

Different factors may influence PD risk such as mitochondrial dysfunction, impaired autophagy, oxidative stress, protein aggregation, neuroinflammation, and environmental and genetic status.

This Special Issue aims to better characterize PD, covering aspects related to the motor and non-motor symptoms that negatively impact health-related quality of life.

Guest Editors

Dr. Carla Masala

Dr. Paolo Solla

Dr. Francesco Loy

Dr. Tommaso Ercoli

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

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Editor-in-Chief

Prof. Dr. Stephen D. Meriney

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

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