

Special Issue on Translational Perspectives of Genetic and Epigenetic Approaches in Parkinson's Disease: An Update

CALL FOR PAPERS

Parkinson's disease (PD) is a chronic and progressive disorder, with a multifactorial etiology influenced by certain environmental, aging, and causative and susceptibility genetic factors. Moreover, there is a large variability in the clinical progression and response to pharmacological treatment in PD patients. With PD affecting a significant and growing segment of the population, there is an urgent need for a better treatment paradigm.

Knowledge regarding the pathophysiological basis of PD has greatly expanded over recent years, revealing a vast number of moderate effect-sized risk factors which influence PD. Due to this knowledge, it is envisaged that "precision medicine" is the way forwards in PD treatment. In "precision medicine" both diagnosis and treatment will be based on the integration of biomarkers from heterogeneous sources of biological information, with important contributions from the fields of genetics and epigenetics. This may help physicians to recognize subjects with the highest risk for the development of PD, stratification of PD patients, and provide an opportunity for the identification of novel potential targets for neuroprotective treatment.

Genetic and epigenetic factors play an important role in the initiation, development, and progression of PD. A better understanding of PD's pathophysiology and the contribution of these factors to PD will help to elucidate the underlying pathological processes.

This special issue is focused on cutting-edge areas of genetics and epigenetics in PD research, including basic science, translational research, and drug response in PD. We aim to provide an overview on the recent advances on genetics and epigenetics in PD, the relative contribution of each of these mechanisms to the pathophysiology of the disease, their interactions, and their impacts on translational research in PD. We invite authors to contribute research articles or reviews reporting genetics and epigenomics studies in PD research.

Potential topics include but are not limited to the following:

- ▶ Advances in genetics of PD
- ▶ Association analysis in PD
- ▶ The role of functional polymorphisms in PD
- ▶ Epigenetic alterations as biomarkers for PD
- ▶ Gene regulation in PD
- ▶ Noncoding RNAs regulation in PD
- ▶ New technologies to improve understanding genetic background of PD
- ▶ Precision medicine for PD

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

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

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