Parkinson's Disease

Special Issue on
Toward the Development of Novel Therapeutic Targets for Parkinson's Disease: New Models and Molecular/Cellular Pathways

CALL FOR PAPERS

The identification of novel cellular and molecular pathways that play an important role in Parkinson's disease (PD) is fundamental for the development of future therapeutic strategies.

Currently, there is no definitive treatment delaying or stopping the progression of this disease, which severely affects the well-being of PD patients. However, there is a great interest in better understanding the processes leading to the pathognomonic neurodegenerative process.

To this purpose, it is of primary importance to pinpoint novel pathways, which modulate or ameliorate/exacerbate the major pathological features of PD such as protein aggregation, neurodegeneration, and dysfunction of the dopaminergic system. Disturbed neuronal homeostasis due to oxidative stress, mitochondrial dysfunction, impaired protein quality control systems, affected metabolic pathways, trafficking pathways, and synaptic plasticity may contribute to PD associated neuropathology.

We solicit high quality original research articles as well as short review articles focused on new models or particular proteins/pathways of interest that could facilitate the identification of novel therapeutic targets for Parkinson's disease.

Potential topics include, but are not limited to:

- ▶ Protein posttranslational modifications
- ▶ Misfolding and oligomerization pathways
- ▶ Protein clearance systems
- ▶ Protein trafficking pathways
- ▶ Mitochondrial dysfunction
- ▶ Oxidative pathways
- ▶ Synaptic function
- ▶ Alpha-synuclein strains
- ▶ Neuroprotective drugs
- ▶ Design of novel drugs
- ▶ Drug neuronal delivery systems
- ▶ Novel cellular/animal models of PD
- ▶ Alpha-synuclein spreading

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/pd/tdnt/.

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