Special Issue

Animal Models of Parkinson's Disease and Related Disorders

Message from the Guest Editor

Parkinson's disease (PD), one of the most common movement disorders, is characterized by age-dependent dysfunction and degeneration of the midbrain dopaminergic neurons. Understanding of the pathogenic mechanisms of PD has progressed with neurotoxin-induced and ⍺-Synunclein propagation models. Moreover, recent advances in human molecular genetics have led to the identification of familial and PD risk genes. Analyses of model animals in which mutations of these PD genes are introduced promise to shed light on the pathogenic mechanisms underlying both idiopathic and familial PD. We invite authors to submit manuscripts focused on the molecular mechanisms of neurodegeneration, therapeutic challenges using model animals, the development of new screening methods, and the generation of new PD and related models to this Special Issue. The key topics include, but are not limited to, the following:

- PD studies using vertebrate models;
- PD studies using non-vertebrate models;
- PD studies using other organisms;
- Drug screening using PD model organisms;
- Development of therapeutic strategies using PD model organisms;
- Development of experimental techniques.

Guest Editor

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Deadline for manuscript submissions

closed (15 April 2020)

About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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