



## Animal Models of Parkinson's Disease and Related Disorders

Guest Editor:

**Prof. Dr. Yuzuru Imai**

Department of Research for  
Parkinson's Disease, Juntendo  
University Graduate School of  
Medicine, Tokyo, Japan

Deadline for manuscript  
submissions:

**closed (15 April 2020)**

### 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  $\alpha$ -Synuclein 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.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

## Contact Us

---

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI