

Special Issue

***Drosophila* Models for Neurodegenerative Diseases: Achievements and Prospects**

Message from the Guest Editors

Neurodegenerative diseases affect an ever-increasing aging population. The disorders range from motor dysfunction to psychiatric troubles and dementia. So far, no cure is available, but steady progress is being made. Part of this progress is due to studies in the fruit fly *Drosophila* which have led to major insights into the cellular and molecular mechanisms underlying neurodegeneration.

Here, we aim to shed light on the benefits of using *Drosophila* to complement, or even overcome the limitations of studies carried out in humans and other animal models. The advantages of *Drosophila* are primarily the ease with which it is possible to perform in vivo studies that cover all aspects of the diseases from genes to circuits and behavior; the well-described anatomy and cellular organization of its brain, which is now close to being completely described at the level of neural circuits and synaptic connections; and the dazzling variety of genetic tools that are continuously developed and improved to study gene functions and neuronal activity in situ at cell and circuit resolution.

Guest Editors

Dr. Serge Birman

Dr. Emi Nagoshi

Dr. Frank Hirth

Deadline for manuscript submissions

closed (31 December 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

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

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