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Drosophila Models in Autophagy and Aging

Guest Editors:

Message from the Guest Editors

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Deadline for manuscript submissions: closed (15 February 2025) Drosophila melanogaster is an established and widely accepted model organism for developmental studies that possesses unique advantages, such as a short lifespan, a simple but evolutionarily conserved nervous system, and a wide variety of transgenic strains and genetic tools. Most importantly, over 75% of disease-associated genes in humans have corresponding orthologs in flies, and, remarkably, all key-molecular pathways are highly conserved, with many organ systems in mammals having equivalent systems in Drosophila. Taken together, all types of studies related to autophagy, neurodegeneration, and aging in *Drosophila* are of major interest to this Special Issue.

Keywords:

- autophagy
- apoptosis
- brain-gut axis
- brainopathies
- development
- Drosophila model of human diseases
- microbiome
- mitophagy
- necrosis
- neurodegenerative diseases
- proteostasis
- signaling
- ubiquitin-proteasome system

Specialsue



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