Special Issue

Drosophila Models in Autophagy and Aging

Message from the Guest Editors

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

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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