



Role of *Drosophila* in Human Disease Research 4.0

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Message from the Guest Editors

Dear Colleagues,

Drosophila has been used as a highly tractable animal model for studying human diseases, with notable success in the study of various neurodegenerative diseases, metabolic syndromes, and cancer. The similarities between the mammalian and *Drosophila* systems have also allowed *Drosophila* to play a role in the evaluation of candidate substances for the treatment of these human diseases.

More recently, based on similarities in the pathways involved in DNA replication, DNA repair pathways, physical and neurological properties, *Drosophila* models have also started to be used to study more complex psychiatric disorders, aging, and other rare intractable human genetic diseases. However, it is always important to keep in mind both the benefits and limitations of fly models by comparing them to other animal models, such as mouse, zebra fish, and nematode worm. For this Special Issue, we welcome original research and up-to-date review articles that provide novel insights into how *Drosophila* models (especially models of DNA replication and repair genes) have progressed the understanding of human disease.





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