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Drosophila as a Model System to Study Metabolism

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Message from the Guest Editor

Defects in cellular and organismal metabolism can result in a number of diseases including obesity and type 2 diabetes, which are very prevalent worldwide. Increasing our knowledge of how metabolism is controlled is essential to better understand the pathogenesis of these diseases; however, studying metabolism in humans is very challenging. An organism that has recently emerged as a model system to study metabolism is the fruit fly, *Drosophila melanogaster*. *Drosophila* is an excellent system in which to study metabolism due to its short generation time and lifespan and the high similarity of its genes, cellular and biochemical pathways, and cellular and organ physiology with mammals. In addition, there are many genetic tools available in *Drosophila* that allow each gene in the genome to be manipulated. With this Special Issue, we aim to bring together a wide range of *Drosophila* researchers studying many diverse aspects of metabolism in the hope of highlighting the many important discoveries that can be made with flies; this research can ultimately be used to gain a more thorough understanding of metabolic biology in a wide range of biological systems.

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