

Special Issue

Molecular Ecology, Physiology and Biochemistry of Insects

Message from the Guest Editor

Of all the zoological classes, insects are the most numerous in species and the most varied in structure. The omics era gives us the opportunity to gain deeper insight into the different aspects of insect physiology and environmental adaptation, for example, by silencing or overexpressing candidate genes of interest. A major challenge in current entomology is to integrate different levels of organization, from cellular mechanisms to functions in ecosystems. The rapid development of molecular techniques for studying physiological functions of genes will revolutionize entomology not only of so-called model organisms like *Drosophila*, but in general. When we understand how physiological processes are regulated and at what time, we will be able to manipulate them, thereby providing new attractive opportunities for practical applications.

We invite you to contribute original research articles and critical reviews on both basic and applied approaches in insect molecular biology. Articles on the molecular mechanisms of insect-plant interactions, and systems of insect communication in general, are also welcome.

Guest Editor

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