Special Issue

Genetics and Ecological Evolution of Dipteran Pest Species

Message from the Guest Editors

Many of the world's most impactful insect pest species of agricultural and medical importance are found in the order Diptera. These include multiple species of true fruit flies, mosquitoes, tsetse flies, blow flies, and house flies, just to name a few. In addition to the widespread devastation and suffering caused by these pests in various habitats around the world where they are currently found, these species also tend to be highly invasive and capable of adapting to new ecological niches. In part because of these problems, at both the international and local levels, considerable resources have been committed to controlling these species and limiting their spread through both chemical and biological control programs. In many cases, however, these control programs have suffered from a fundamental lack of knowledge of the genetics and ecology of these pest species. The goal of this Special Issue is to bring about a more comprehensive understanding, in general, of what is known about the genetics and ecology of these Dipteran pest species and how, in particular, this information might be used to improve the effectiveness of control programs.

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Arthropods are a diverse and abundant group of animals that are important to a variety of research dictates. For example, hexapods act as bio-indicators of ecosystem function and pest status and serve as model systems for questions concerning physiology, embryology, genetics, and social interaction. The editorial board and staff at Insects is committed to providing contributors an open access forum to showcase objective and innovative research as well as succinct review articles. Our journal is dedicated to providing timely and thorough review of qualified submissions and we welcome you to submit a contribution.

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