



insects



an Open Access Journal by MDPI

Insect Adaptation to Changing Environment: From Behavior to Molecular Mechanisms

Guest Editors:

Prof. Dr. Jesper G. Sørensen
Department of Biology, Aarhus
Universitet, Aarhus, Denmark

**Prof. Dr. Torsten Nygaard
Kristensen**
Department of Chemistry and
Bioscience, Aalborg University,
Aalborg, Denmark

Deadline for manuscript
submissions:
closed (31 March 2024)

Message from the Guest Editors

Dear Colleagues,

Insects and other small ectotherms are, in addition to changes imposed by global climate change, constantly faced by variable environmental conditions that change within timescales that vary from within days to across seasons and years. While the intricate adaptive responses and adaptations to changing environmental conditions have been intensively studied, numerous outstanding questions remain. These include—but are not restricted to—how to measure adaptation and adaptive responses, which molecular mechanisms and genetic pathways are involved, the type and role of behavior, the use of microclimates, trade-offs between fitness components, genetic variation and evolutionary potential, and changes in the distribution and abundance of insects in accordance with environmental change. More than one million species of insects have been described, and this large group has immense importance for ecosystem functioning. We seek to compile a Special Issue with high-quality original submissions and reviews that address and discuss main outstanding questions within the topic of Insect Adaptation to Environmental Changes.



mdpi.com/si/174062

Special Issue