Special Issue

Molecular Basis of Adaptation in Arthropods

Message from the Guest Editors

Arthropods originated more than 500 MYA and have expanded into all major habitats. They have evolved herbivorous, detritivorous, parasitic and carnivorous lifestyles, and exhibit a remarkable ability to adapt to (novel) nutritional challenges, resulting in highly dynamic feeding ecologies. Arthropod populations also quickly adapt to several anthropogenic stressors, such as pesticides, heavy metals and changing climate conditions. In this Special Issue, we welcome all studies that aim to unravel the molecular basis of these adaptation processes and specifically encourage studies implementing whole-genome-based approaches and/or reverse genetics tools (e.g. CRISPR-Cas9 and RNAi), to address their research hypotheses.

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