Special Issue

Advances in the Use of Hymenoptera as Bioindicators in Agricultural Landscapes

Message from the Guest Editors

The global decline in terrestrial biodiversity is attributed in part to the intensification of agricultural production systems. To evaluate the state of ecosystems and the effectiveness of measures that aim to support biodiversity, reliable (bio-)indicators are required. Hymenoptera are promising bioindicators for the state of terrestrial ecosystems. They fulfill important ecosystem services and collect and provide valuable information about the environment. Innovative approaches, such as recent advances in molecular biology tools or technical devices for automatic species recognition, combined with landscape assessments, are opening new opportunities to use Hymenoptera as sources of information on the state of the environment. Original articles about theoretical, empirical, or applied research, as well as reviews, quantitative meta-analyses or perspective articles that focus on the potential use of Hymenoptera or their products as bioindicators to reflect the state of and threats to biodiversity in agricultural landscapes are welcome to this Special Issue.

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