



insects



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Climate Sensitive Ecological and Dynamical Models of Insects

Guest Editors:

Dr. Kamil Erguler

The Cyprus Institute, Nicosia,
Cyprus

Dr. David Roy

Biological Records Centre, UK
Centre for Ecology & Hydrology,
Wallingford OX10 8BB, UK

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Message from the Guest Editors

Urbanisation, globalisation, habitat loss, and climate change associated with range expansion of invasive species are expected to result in ecosystem disruptions, biodiversity loss, and an increased probability of infectious disease emergence. Understanding the complex links between insects, the key components of many ecosystems and pathogen transmission cycles, and their environment through mathematical and statistical modelling has become essential tools in efforts to anticipate current and potential future threats to human, animal, and ecosystem health. This Special Issue will report recent discoveries and review key subject areas in the broad field of climate-sensitive ecological and dynamical modelling of insects, as well as the utilization of meteorological datasets, remote sensing, citizen science, and traditional surveillance to develop new solutions for prediction, protection, and/or control of native and invasive insect species.



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