

## Special Issue

# Pest Infestation in Trees: Mechanisms, Effects and Control Methods

### Message from the Guest Editors

Forests and urban trees are facing escalating threats from native and invasive pests on a global scale, causing significant ecological disruption, economic losses, and diminished ecosystem services.

Understanding the intricate mechanisms of infestation—including host selection, colonization strategies, feeding ecology, vector–pathogen interactions, and tree physiological responses—is fundamental to developing effective countermeasures. Quantifying the multifaceted effects of these infestations is particularly crucial, encompassing impacts on individual tree health, growth, and mortality; alterations to forest structure, biodiversity, and resilience; and broader socio-economic consequences. We welcome original research and reviews on integrated pest management (IPM) strategies, such as biological control, silvicultural practices, host resistance breeding, chemical ecology (semiochemicals), precision technologies, and environmentally compatible interventions. We particularly seek contributions that address emerging challenges posed by climate change, the spread of invasive species, novel detection/monitoring techniques, and the integration of multidisciplinary approaches.

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### Guest Editors

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Prof. Dr. Jing Tao

Prof. Dr. Dun Jiang

Dr. Lili Ren

Dr. Tuuli-Marjaana Koski

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### Deadline for manuscript submissions

closed (30 April 2026)



## Forests

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