



## Three years of improving forest health!

It is time to show you what we have done in the past year!

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"A very sincere thank you for all the great work that has been done in HOMED so far. I am confident that we can go on with the good atmosphere and very effective collaboration between partners," - commented the project coordinator Hervé Jactel.

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### HOMED partners met up for the third annual meeting of the project



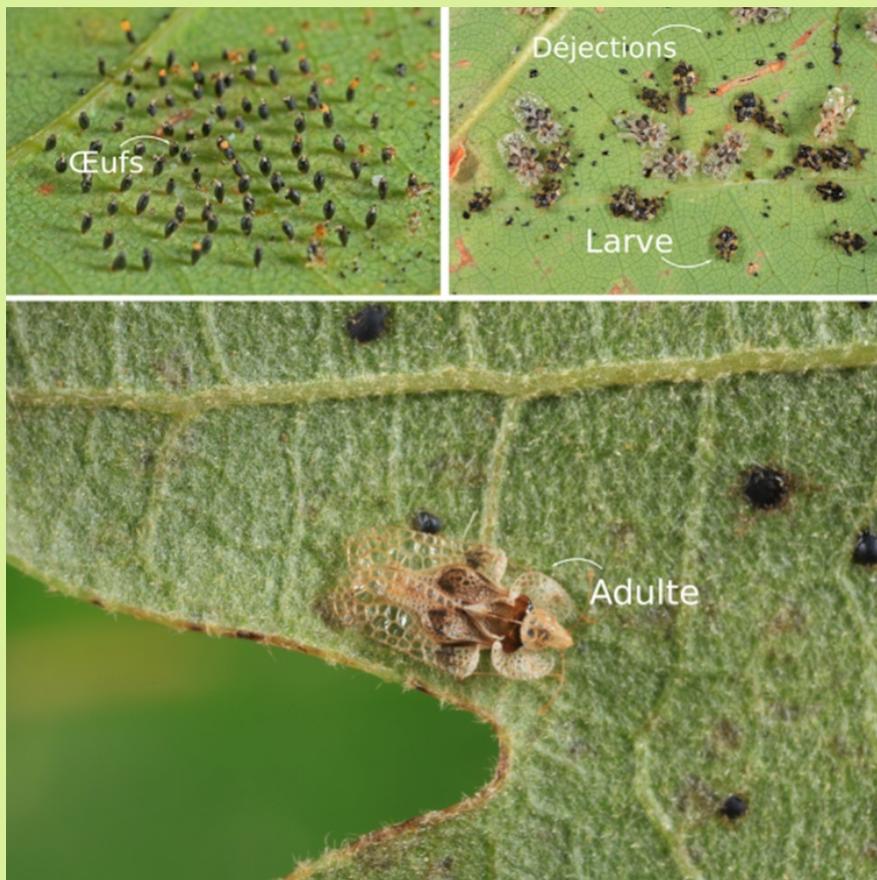
More than 50 project partners gathered [between 13 and 17 September 2021](#) to mark the successful ending of the third year of the HOMED project. Due to the COVID-19 pandemic, the third annual meeting of HOMED was also held online. As the four-year project enters its final stage of development, the third HOMED AGM is the last regular annual meeting of the project consortium.

Within the five conference days, working group teams of scientists and experts discussed project achievements, research results and discussed future actions. Each working group held a separate panel where they shared their research progress, challenges and upcoming plans for the last year of HOMED's duration. Project partners held the sessions within an interactive online environment and a lot of ideas were generated.

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## HOMED's scientific progress

### Forest health at risk: A new invasive alien species is discovered to damage oaks



The long list of herbivorous insect species associated with oak has a newcomer - a small bug from the Tingidae family. Its name is *Corythucha arcuata*, more commonly known as the oak lace bug.

[Read more](#)

(Click on the images to view the full papers.)

## Generic Model to Predict the Outbreak of Insects in European Forests

Dorian Collet<sup>1</sup>, Christelle Robinet<sup>1</sup> INRAE

Academic Editor: Dimitrios Avtzis

Published: 30 June 2021 by MDPI in The 1st International Electronic Conference on Entomology session Forest and Urban Entomology  
10.3390/IECE-10375 (registering DOI)



Research Article

NeoBiota 65: 169-191

<https://doi.org/10.3897/neobiota.65.66276> (10 Jun 2021)

## Classical biological control against insect pests in Europe, North Africa, and the Middle East: What influences its success?

M. Lukas Seehausen, Catarina Afonso, Hervé Jactel, Marc Kenis



## Forest Ecology and Management

Volume 496, 15 September 2021, 119377



## Biological control of emerging forest diseases: How can we move from dreams to reality?

Simone Prospero<sup>a</sup>, Leticia Botella<sup>b, c</sup>, Alberto Santini<sup>d</sup>, Cécile Robin<sup>e</sup>

Open Access Article

## Rapid Detection of Pine Pathogens *Lecanosticta acicola*, *Dothistroma pini* and *D. septosporum* on Needles by Probe-Based LAMP Assays

by Chiara Aglietti<sup>1</sup>, Colton D. Meinecke<sup>2</sup>, Luisa Ghelardini<sup>1,3,\*</sup>, Irene Barnes<sup>4</sup>, Ariska van der Nest<sup>4</sup> and Caterina Villari<sup>2</sup><sup>1</sup> Department of Agriculture, Food, Environment and Forestry (DAGRI), University of Florence, Piazzale delle Cascine 28, I-50144 Firenze, Italy<sup>2</sup> Warnell School of Forestry & Natural Resources, University of Georgia, Athens, GA 30602-2152, USA<sup>3</sup> Institute for Sustainable Plant Protection, CNR, 50019 Sesto Fiorentino, Italy<sup>4</sup> Department of Biochemistry, Genetics and Microbiology, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria 002, South Africa

\* Author to whom correspondence should be addressed.

Academic Editor: Roberto Faedda

Forests 2021, 12(4), 479; <https://doi.org/10.3390/f12040479>

Received: 8 March 2021 / Revised: 7 April 2021 / Accepted: 10 April 2021 / Published: 14 April 2021

(This article belongs to the Special Issue Ecology, Identification and Management of Forest Diseases)



## Host-mediated, cross-generational intraspecific competition in a herbivore species

Bastien Castagneyrol, Inge van Halder, Yasmine Kadiri, Laura Schillé, Hervé Jactel

doi: <https://doi.org/10.1101/2020.07.30.228544>

This article is a preprint and has not been certified by peer review [what does this mean?].

Special feature

## Spatial orientation of social caterpillars is influenced by polarized light

Mizuki Uemura<sup>†</sup>, Andrej Meglič<sup>†</sup>, Myron P. Zalucki, Andrea Battisti and Gregor Belušič<sup>✉</sup>

Published: 17 February 2021 | <https://doi.org/10.1098/rsbl.2020.0736>

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Article | [Open Access](#) | Published: 05 November 2020

## Evidence for a cryptic parasitoid species reveals its suitability as a biological control agent

M. Lukas Seehausen<sup>✉</sup>, Nicolas Ris, Laetitia Driss, Alessandro Racca, Pierre Girod, Sylvie Warot, Nicolas Borowiec, Ivo Toševski & Marc Kenis

*Scientific Reports* **10**, Article number: 19096 (2020) | [Cite this article](#)



### MANAGEMENT OF BIOLOGICAL INVASIONS

International Journal of Applied Research on Biological Invasions

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Volume 11, Issue 4

*Special Issue: Detection and control of alien forest species in a changing world*  
Edited by: Maarten de Groot, Janā Kus Veenfliet, Nikica Ogris, Lado Kutnar and Aleksander Marinšek  
Published in November 2020

This special issue of *Management of Biological Invasions* are the proceedings of the international conference "Detection and control of forest invasive alien species in a dynamic world" held in Ljubljana, Slovenia, September 26th–29th, 2019 organized by the project LIFE ARTEMIS (LIFE15 GIE/SI/000770). Partners in the project LIFE ARTEMIS are Slovenian Forestry Institute, Institute of the Republic of Slovenia for Nature Conservation, Slovenia Forest Service and Zavod Symbiosis. LIFE ARTEMIS is co-funded by the European Commission in the framework of the LIFE financial instrument, Ministry of the Environment and Spatial Planning of the Republic of Slovenia, the City of Ljubljana and the Slovenian Research Agency.

The publication of this special issue is supported by the [International Association for Open Knowledge on Invasive Alien Species \(INVASIVESNET\)](#).



### NeoBiota

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[Review Article](#) NeoBiota 62: 301–332  
<https://doi.org/10.3897/neobiota.62.52991> (15 Oct 2020)

## Harmonising the fields of invasion science and forest pathology

▼ Trudy Paap, Michael J. Wingfield, Treena I. Burgess, Joseph M. Hulbert, Alberto Santini

## *Caliciopsis moriondi*, a new species for a fungus long confused with the pine pathogen *C. pinea*

▼ Duccio Migliorini, Nicola Luchi, Alessia Lucia Pepori, Francesco Pecori, Chiara Aglietti, Fabio Maccioni, Isabel Munck, Stephen Wyka, Kirk Broders, Michael J. Wingfield, Alberto Santini



## Tree Diversity and Forest Resistance to Insect Pests: Patterns, Mechanisms, and Prospects

Annual Review of Entomology

Vol. 66:277-296 (Volume publication date January 2021)  
 First published as a Review in Advance on September 9, 2020  
<https://doi.org/10.1146/annurev-ento-041720-075234>

Hervé Jactel,<sup>1</sup> Xoaquín Moreira,<sup>2</sup> and Bastien Castagneyrol<sup>1</sup>

<sup>1</sup>INRAE, University of Bordeaux, BIOGECO, F-33810 Castan, France; email: herve.jactel@inrae.fr

<sup>2</sup>Misión Biológica de Galicia (MBG-CSIC), 36080 Pontevedra, Galicia, Spain

## Journal of Applied Ecology



POLICY DIRECTION | [Free Access](#)

## Effectiveness of clear-cuttings in non-fragmented pine forests in relation to EU regulations for the eradication of the pine wood nematode

Christelle Robinet✉, Philippe Castagnone-Sereno, Manuel Mota, Géraldine Roux, Corinne Sarniguet, Xavier Tassus, Hervé Jactel

First published: 19 December 2019 | <https://doi.org/10.1111/1365-2664.13564> | Citations: 2

## HOMED at Conferences

## HOMED results presented at the IUFRO Conference 2021



Results of the HOMED project were presented at the IUFRO Scientific Conference: "Biological invasions in forests: trade, ecology and management". The event was held between 20 and 24 September 2021, and it featured seven presentations by HOMED researchers:

- "Effects of density and diversity of neighbouring trees on horse chestnut leafminer damage in urban areas", Alex Stemmelen
- "The effect of tree diversity on forest resistance to non-native pests: the case of the invasive western conifer seed bug, *Leptoglossus occidentalis*, in Europe", Ana Farinha
- "Modelling dispersal trajectories of *Monochamus galloprovincialis*, insect vector of the invasive pine wood nematode, to optimize monitoring by trapping networks", Pedro Nunes
- "A global perspective on biological control policies: between patchwork and harmonization management", Lukas Seehausen
- "Small-scale sampling intensity for sentinel nurseries", Rene Eschen
- "A Reciprocal Sentinel Planting Approach for Assessment of Risk from Invasive Alien Tree Pests", Caleb Kime
- "Worldwide tests of generic attractants for early detection of non-native cerambycid species at arrival on other continents", Alain Roques



HOMED held first mentor workshop for project's PhD students and post-doctoral researchers

HOMED held its first quarterly workshop for HOMED PhD



HOMED held second mentor workshop for project's PhD students and post-doctoral researchers

The main aim of the workshop was to provide a forum for

students and post-docs. The idea of the workshop was to intensify young researchers' involvement in the project.

discussion between young researchers involved in the project and renowned HOMED senior scientists who can provide their expert advice and mentoring.

[Read more](#)

[Read more](#)

## HOMED research presented to EC Working Group on Plant Health Surveillance



Results of the HOMED project were presented at the Innovative approaches for territorial surveillance event organised by the Working Group on Plant Health Surveillance, co-organized by the European Commission's Directorate-General for Agriculture and Rural Development (DG AGRI) and the Directorate-General for Health and Food Safety (DG SANTE). The event was held on 18 March, where 58 participants, two official representatives from each EU country and EC agents, gathered to discuss innovative approaches for territorial surveillance.

[Read more](#)

## HOMED's policy briefs

**HOW CAN THE SURVEILLANCE OF INVASIVE ALIEN PESTS AND PATHOGENS PREVENT TREE PANDEMICS?**



**Summary**

The policy brief is based on a statement prepared by the HOMED project consortium on the occasion of the International Year of Forests (2012) and published in the year journal Forest Ecology and Management. It discusses the importance of forest health and the role of surveillance in preventing tree pandemics. It also discusses the role of surveillance in preventing tree pandemics and the role of surveillance in preventing tree pandemics.

**Keywords**

Tree pandemics, emerging diseases, biodiversity, surveillance

This project received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 742011.

[Download HOMED Policy brief I](#)

**FOSTERING COLLABORATION BETWEEN PATHOLOGISTS AND ENTOMOLOGISTS FOR BETTER MANAGEMENT OF FOREST PEST AND PATHOGEN INVASIONS**



**Summary**

The policy brief is based on a statement prepared by the HOMED project consortium on the occasion of the International Year of Forests (2012) and published in the year journal Forest Ecology and Management. It discusses the importance of forest health and the role of surveillance in preventing tree pandemics. It also discusses the role of surveillance in preventing tree pandemics and the role of surveillance in preventing tree pandemics.

**Keywords**

Capacity building, education, fungi, forest health, identification, insects, interdisciplinary

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[Download HOMED Policy brief II](#)

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**Summary**

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[Download HOMED Policy brief III](#)

# HOMED's collection of practice abstracts

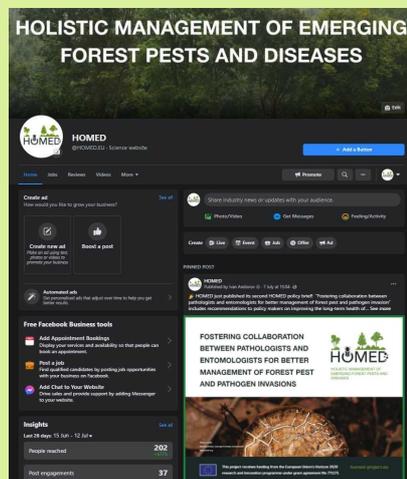
## HOMED's collection of practice abstracts featured on EIP-AGRI



As part of the promotional and dissemination toolset of HOMED, selected to make the results of the project available across stakeholders and the general public, a collection of practice abstracts was prepared and published on the [European Innovation Partnership for Agricultural Productivity and Sustainability \(EIP-AGRI\)](#) platform. These concise and clear pieces of knowledge aim to present HOMED results to one of the key project target groups - the practitioners.

[View the collection here](#)

## HOMED on Social Media



**The team of HOMED kindly reminds you to tag us  
@ProjectHOMED whenever you mention us on  
Twitter or @HOMED.EU on Facebook! Let's  
continue developing together by keeping up the  
good work!**

**Coming Soon**

We are entering the final year of the HOMED project!



With a lot of work behind our back, project partners are looking forward to the final year of HOMED! Stay tuned for the special new outputs of HOMED in 2022!

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### **HOMED project**

Holistic Management of Emerging Forest Pests and Diseases

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