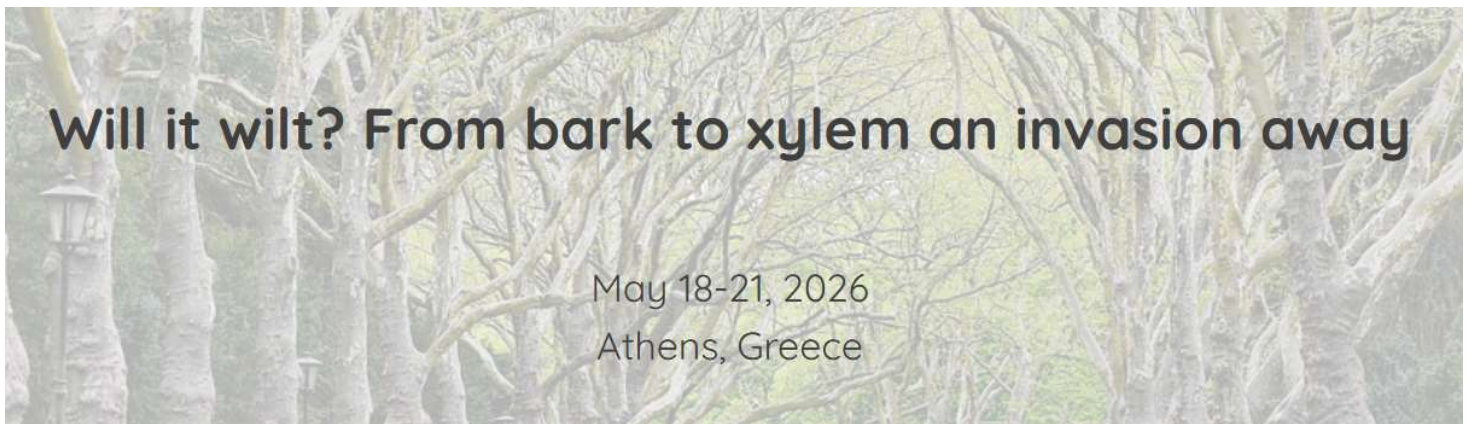




IUFRO
7.02.03 and 7.02.10
Athens, Greece • May 18-21, 2026

PROGRAMME



Will it wilt? From bark to xylem an invasion away

May 18-21, 2026
Athens, Greece

Joint Meeting of the IUFRO working parties
"Vascular Wilt Diseases" and "Pine Wilt Disease"
(7.02.03 and 7.02.10)



Institute for Sustainable Plant Protection
National Research Council of Italy



明治大学
MEIJI UNIVERSITY



National Institute of
Forest Science
Republic of Korea



ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
AGRICULTURAL UNIVERSITY OF ATHENS



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With the collaboration of the Hellenic Ministry of Environment & Energy,
Forest Service



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ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
AGRICULTURAL UNIVERSITY OF ATHENS



DAY 1 - TUESDAY 19th MAY 2026

09:00-10:00 Arrival at the Venue / Registrations / Coffee

10:00-10:30 Welcoming by WG Leaders and the Official of the Greek Minister of Environment

10:30-12:00 Bark Beetle Symbiosis / Chemical Ecology

10:30-10:45 **From Pheromone Discovery to Neurobiology: A New Framework for Understanding Sensory-driven Behavior in *Bursaphelenchus xylophilus***

Ryoji Shinya

10:45-11:00 ***Xylotrechus stebbingi*, a Non-native Occasional Vector of *Ceratocystis platani* in Europe**

Hari Berto, Francesco Pecori, Alain Roques, Marie-Anne Auger-Rozenberg, Alessia L. Pepori & Alberto Santini

11:00-11:15 **Population Genetic Assignment to Characterize Long-distance Dispersal of *Monochamus galloprovincialis*, Vector of the Pine Wood Nematode**

Varrault Mathilde, Desaphy Emma, Guichoux Erwan, Chancerel Emilie, Bankhead Stéphanie & Roux Géraldine

11:15-11:25 **The Potential Role of Bark, Ambrosia and Nitidulid Beetles in the Dispersal of the Wilt Pathogen, *Ceratocystis manginecans* in Indonesian Forestry Plantations**

Kira M. T. Lynn, Michael J. Wingfield, Alvaro Duran, Samuel A. Santos, Marthin Tarigan, Deviana Tan, Jaliaman Sipayung, Wilma J. Nel & Irene Barnes

11:25-11:30 **Cryo-SEM Analysis of the Spiracular Microstructure of *Monochamus alternatus*, a Vector of Pinewood Nematodes**

Changhyun Lee, Junhyung Park, Jin Woo Kim & Ki Woo Kim*

11:30-11:35 **Microbial Volatile Attractants from Beetle Surfaces Guide Pinewood Nematode Tracheal Invasion**

Bin Zhang, Jiahui Duan & Jianghua Sun

11:35-11:40 ***Geosmithia* Species, Including Several New Species, Recovered from South African Bark Beetles**

Wilma J. Nel, Kira M.T. Lynn, Michael J. Wingfield, Jiri Hulcr, Francois Roets & Irene Barnes

11:40-11:55 **Chemical Ecology of Ambrosia Beetles: Knowledge and Perspectives to Manage Exotic Species**

Jorge E. Macías Sámano & Robert R. Setter

COFFEE BREAK



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12:30 – 13:50 Identification and Taxonomy

- 12:30-12:45 **The Tree Wilt Pathogen *Ceratocystis albifundus*: Three Decades of Intriguing Discovery**
Michael J. Wingfield, Jolanda Roux, Irene Barnes & Brenda D. Wingfield
- 12:45-13:00 **Current Status of Dutch Elm Disease Caused by *Ophiostoma novo-ulmi* in Korea**
Ki Hyeong Park, Sang-Tae Seo & Dong-Hyeon Lee
- 13:00-13:15 **Hidden Diversity in *Ophiostoma novo-ulmi*: Evidence from Northern Europe**
Liina Jürisoo, Caroline Sunnerstam, Annika Soomelt, Isabella Børja, Rein Drenkhan & Johanna Witzell
- 13:15-13:30 **Integrating Phylogenetic, Ecological, and Pathogenicity Evidence to Resolve Taxonomic Boundaries in the *Ceratocystis manginecans* Complex**
Kira M. T. Lynn, Michael J. Wingfield, Leonardo S.S. Oliveira, Acelino C. Alfenas, Rafael Ferreira Alfenas, Seonju Marincowitz & Irene Barnes
- 13:30-13:35 **Unseen Communities: Wood- and Soil-Inhabiting Nematodes in Greek Pine Forests**
Neilan Chotzar, Dimitris Avtzis, Maria Argyropoulou & Nikolaos Monokrousos
- 13:35-13:50 **Fungi Associated with *Hylurgus ligniperda* and *Orthotomicus erosus* Infesting Pines in Croatia and South Africa**
Marta Kovač, Nam Q. Pham & Mike Wingfield

LUNCH BREAK AT THE VENUE



National Institute of
Forest Science
Republic of Korea



15:00-16:30 Host-Pathogen Interactions

15:00-15:15 **A Climate-Dependent Vector–Pathogen–Host Transmission Model for the Pine Wilt Nematode**
Daesol Kim & Junwon Kang

15:15-15:30 **Vascular Fungal Endophytes: a Means to Breed Resistance to Dutch Elm Disease?**
David Macaya-Sanz, Juan Antonio Martin & Adrian Miguel-Pizarro

15:30-15:45 **Pathogen Survival on Pruning Tools: *Ceratocystis platani*, a Case Study**
Hari Berto, Alessandro Puca, Alessandra Gionni, Alessia Lucia Pepori, Francesco Pecori, Nicola Luchi & Alberto Santini

15:45-16:00 **Is Root Disease a Factor in Mediterranean Oak Borer (*Xyleborus monographus*) Host Choice in Oregon White Oak (*Quercus garryana*)?**
Kellee Boyer, Jared LeBoldus, Ebba Peterson & Josh Wingfield

16:00-16:10 **Sixteen Years of Transdisciplinary Research on Thousand Cankers Disease in Walnuts**
Denita Hadziabdic

16:10-16:20 **A Global Call to Understand White Pine Blister Rust**
Nadir Erbilgin

16:20-16:30 **Recent Birch Decline in Sweden**
Iryna Matsiakh, Åke Olson, Audrius Menkis

WINE RECEPTION AT THE VENUE

DAY 2 - WEDNESDAY 20th MAY 2026

09:30-11:10 Pathways of Invasion/Disease Management and Control

- 09:30-09:45 **Ceratocystis species in Africa: A Perspective of Future Threats to Forestry and Agriculture**
Irene Barnes, Jolanda Roux, Lina del Mar Angel & Michael J. Wingfield
- 09:45-10:00 **Sharing the Japanese Experiences of Struggle for Controlling Pine Wilt Disease**
Katsunori Nakamura-Matori
- 10:00-10:15 **Paradigm Shift in the Management of Pine Wilt Disease in Korea**
Hyerim Han, Jounga Son, Youngwoo Nam, Ki Hyeong Park, Yeon-Jeong Lim & Won Il Choi
- 10:15-10:30 **Ceratocystis invasion in Greece**
Nikoleta Soulioti, Semina Smarlamaki, Giorgos Patsis, Zapi Gonou Zagou & Aliko Tzima
- 10:30-10:35 **Overcoming Polymorphism Limitations: Novel SSR Markers for Population Genetic Analysis in *Bursaphelenchus xylophilus* and *B. mucronatus***
Méline Saubin, Émilie Chancerel, Soizic Rossetti, Yannis Clavier, Maria de Lurdes Inacio, Olivier Lepais & Laure Villate
- 10:35-10:40 **How Vaccination Reshapes the *Ulmus glabra* Mycobiome Under Dutch Elm Disease**
Liina Jürisoo, Ahto Agan, Rein Drenkhan & Johanna Witzell
- 10:40-10:55 **Key Details for the Effective Use of Semiochemicals to Monitor or Control Pest Populations in the Field**
Robert R. Setter, Jorge Macias Samano, Alain Roques & Marie-Anne Auger-Rozenberg
- 10:55-11:10 **An Integrated, Innovative Framework for Monitoring *Fraxinus angustifolia* Dieback and Resilience in Riparian Forests**
Zlatković Milica, Cvjetković Branislav, Čarter Matjaž, Diminić Danko, Dvorak Milon, Haupman Tine, Karaklić Velisav, Kesić Lazar, Levanič Tom, Mataruga Milan, Orlović Saša, Perendija Nikola, Schwanda Katharina, Stojanović B. Dejan, Stojnić Srđan, Svetlik Jan, Temunović Martina, Visački Vladimir & Libor Jankovský

COFFEE BREAK

11:35-12:55 Population Biology / Breeding

- 11:35-11:50 **Pine Wilt Disease in Spain: Current Epidemiological Status and Genetic Resistance in *Pinus pinaster***
Raquel Díaz, Lucía Villar, María Menéndez, Esteban Torres & Eva Prada
- 11:50-12:05 **Metabolic Interaction between *Ophiostoma novo-ulmi* and *Geosmithia* spp.**
Alessia Lucia Pepori, Hari Berto, Alessandra Gianni, Nicola Luchi, Francesco Pecori & Alberto Santini
- 12:05-12:20 **From Genetic Architecture to Environmental Effects: Insights for Breeding Dutch Elm Disease-Resistant *Ulmus minor***
Jorge Domínguez, David Macaya-Sanz & Juan A. Martín
- 12:20-12:25 **Breeding of Pine Varieties Resistant to Pine Wilt Disease and Molecular Detection of Early Host Responses**
Limei Song & Jianghua Sun
- 12:25-12:40 **Vertical Distribution, Fungal Communities, and Biotic Interactions: Deciphering the Spread of *Bursaphelenchus xylophilus* in European Pine Forests**
Yannis Clavier, Marjorie Lucas, Estelle Ducourtioux, Aure Coudreau, Benjamin Dencausse, Aurélien Kohler, Agnès Aubert, Emilie Chancerel, Zoé Compagnie, Priscillia Alves Gomes, Clément Delmas, Nicolas Papadakis, Maria de Lurdes Inácio, Luís Bonifácio, Méline Saubin & Laure Villate
- 12:40-12:55 **Establishing Pre-breeding Lines for Avocado Tolerance to Laurel Wilt**
Romina Gazis, Jugpreet Singh & Patricia Manosalva

LUNCH BREAK AT THE VENUE - SPONSORS DISPLAY



14:00-16:00 Genomes and Bioinformatics

- 14:00-14:15 **Diversity of Mating Systems in Wilt Pathogens: Insights from the Ceratocystidaceae**
Frances Lane, Brenda D. Wingfield, Michael J. Wingfield & P. Markus Wilken
- 14:15-14:30 **Genome-wide Evidence for Cryptic Multi-generational Introgression between Invasive *Bursaphelenchus xylophilus* and Native *B. mucronatus***
Yuzuki Ikeda, Naoko Ishikawa, Kenichi Yanagisawa, Yoshihisa Suyama & Ryoji Shinya
- 14:30-14:45 **From Transcriptomics to Management: New Insights into Oak Wilt**
Sarah L. Boggess, Meher Ony, Grace M. Pietsch, Margaret E. Staton, Beant Kapoor, Kendhl Seabright, Adam Taylor, William E. Klingeman & Denita Hadziabdic
- 14:45-15:00 **Population Genomics and Transcriptomics Uncover Adaptive Evolution and Virulence in *Ophiostoma* Species Causing Dutch Elm Disease**
Jorge Pallares, Pauline Hessenauer, Louis Bernier, Angel Baron, David Macaya Sanz & Juan Antonio Martín
- 15:00-15:15 **Pangenome Analysis of *Ophiostoma novo-ulmi*, the Causal Agent of Dutch Elm Disease**
Concetta De Quattro, Hari Berto, Sara Torre, Alessia L. Pepori, Francesco Pecori, Federico Sebastiani & Alberto Santini
- 15:15-15:30 **One Clone to Rule Them All? Genomics of the North American VSD Pathogen, *Ceratobasidium* spp.**
Marcin Nowicki, Sarah L. Boggess, Farhat A. Avin, Fulya Baysal-Gurel, John C. Bonkowski, Marc A. Cubeta, Matthew L. Huff, Muhammad Junaid, Katherine Kilbourne, Colton D. Meinecke, Dewayne D. Shoemaker, Margaret E. Staton, Robert N. Trigiano, Jackson H. Turner, Caterina Villari, Jean Williams-Woodward & Denita Hadziabdic

COFFEE BREAK - GROUP PHOTO





DIGITAL POSTERS 16:10-16:45

- 16:10-16:13 **Histological Changes and Distribution of Secondary Metabolites in Japanese Black Pine Seedlings Inoculated with Pine Wood Nematode**
Huang Wengqian, Hirakawa Masafumi, Umebayashi Toshihiro, Kusumoto Dai, Shimizu Bun-ichi, Taneda Haruhiko, Yamagishi Shohei, Watanabe Atsushi & Fukuda Kenji
- 16:14-16:17 **Emergence of *Ceratocystis eucalypticola* as a Devastating Wilt Pathogen of Eucalyptus in China**
FeiFei Liu, YuHua Liang, QuanChao Wang & GuoQing Li
- 16:18-16:21 **How to Eradicate an Invasive Forest Pest without Clear-cutting**
Hongyu Sun, Christelle Robinet, Hervé Jactel, Monique Mourits, Manuela Branco, Wopke van der Werf & Jacob C. Douma
- 16:22-16:25 **From Wilt to Hope: Exploring Fungal Partners in Swedish Elms**
Caroline Sunnerstam, Dániel G. Knapp, Liina Jürisoo & Johanna Witzell
- 16:26-16:29 **Development of a Field-Ready Colorimetric LAMP Assay for Rapid Detection of *Bursaphelenchus xylophilus***
Michael McKee, Noah Lindeman, T. Seth Davis & Jane E. Stewart
- 16:30-16:33 **Fungi Associated with Ambrosia Beetle *Xylosandrus germanus* in Slovakia**
Michal Lalík, Katarína Pastirčáková, Katarína Adamčíková, Marek Barta, Juraj Galko & Martin Pastirčák
- 16:34-16:37 **Identification, Pathogenicity and Fungicide Sensitivity of *Diplodia sapinea*, the Causal Agent of Pine Shoot Blight in China**
Quanchao Wang, Huachao Xu & Xudong Zhou
- 16:38-16:41 **Rhizosphere Bacterial Strains Showing Protection Efficacy against Fire Blight on Apple**
Sujeong Kim, Stefan Kunz, Youngchan Kim & Yongchull Jeun

SOCIAL DINNER - CITY CENTRE

DAY 3 - THURSDAY 21ST MAY 2026

09:35 – 10:30 Risk Assessment and Surveillance

- 09:35-09:50 **Chinese Plan for the Prevention and Control of Pine Wilt Disease**
Fang Guofei, Zhou Yantao, Sun Hong & Wang Yue
- 09:50-10:05 **Assessing the Dispersal of *Monochamus galloprovincialis*, the Vector of the Pine Wood Nematode, in Heterogeneous Landscapes**
Hongyu Sun, Hervé Jactel, Inge van Halder, Manuela Branco, Luís F Bonifácio, Jean-Baptiste Rivoal & Christelle Robinet
- 10:05-10:10 **EFSA Assessment of Control Measures for PWN in the EU**
Agata Kaczmarek, Matteo Crotta, Dora Mijic, Anna Filipiak, Hervé Jactel, Nik Cunniffe, Gregor Urek, Luis Bonifacio & Hans-Hermann Thulke
- 10:10-10:15 **Automating Pine Wood Nematode Counting with AI: a Tool to Optimize Laboratory Work**
Clément Delmas, Yannis Clavier, Estelle Ducourtioux, Aure Coudreau, Méline Saubin, Nicolas Papadakis* & Laure Villate*
- 10:15-10:20 **Host Tree Distribution and Climatic Suitability for Pine Wilt Disease Expression in Austria**
Eva Papek, Tobias Schadauer, Werner Hinterstoisser, Jasmin Wilhelm, Benjamin Schumacher & Gernot Hoch
- 10:20-10:35 **Trap-Mounted Automated Imaging for Monitoring Pest Insects**
Markus Kramer, Felix Dehon & Christian Pylatiuk
- 10:35-10:50 **Testing Novel Generic Lures in France and China for Early Detection of Non-native Cerambycid Species**
Alain Roques, Lili Ren & Marie-Anne Auger-Rozenberg
- 10:50-10:55 **Sudden Emergence of Beech Bark Disease Under Drought Stress Revealed through a Multidisciplinary Monitoring Framework Combining Forest Pathology, IoT-based Sensors and Remote Sensing**
Milica Zlatković, Srđan Stojnić, Vladimir Visački, Lazar Kesić & Saša Orlović

COFFEE BREAK

11:20- 12:30 New Methods of Biosurveillance

- 11:20-11:35 **Detecting DED and Phenotyping Elms for DED Resistance Using Near-infrared Spectroscopy**
Pierluigi (Enrico) Bonello, Anna O. Conrad & Alberto Santini
- 11:35-11:50 **ICT Technology-based Scientific Monitoring and Digital History Management System for Pine Wilt Disease in Korea**
Choi Jaewon, Bae Seong-hyun, Jeong Sung-cheol, Kim Yong-hun, Hwang Jin-hyeong, Lee Changjoon & Yoo Seok-bong
- 11:50-12:05 **An Initial Field Study on the Early Detection of Oak Wilt Caused by *Bretziella fagacearum* in Mature *Quercus rubra* Using Volatile Organic Compounds**
Léa Lebert, Mathieu Gosselin, Philippe Tanguay, Louis Bernier & Ilga Porth
- 12:05-12:20 **Preliminary Exploration in Early Detection of *Ceratocystis platani* Infection on Plane Trees Using Remote Sensed Data**
Hari Berto, Giovanni Marino, André P.M. Fabbri, Alessandra Gianni, Alessia Lucia Pepori, Francesco Pecori, Nicola Luchi & Alberto Santini
- 12:20-12:25 **Building Resilience against Laurel Wilt through Diagnostics and International Partnerships**
Romina Gazis & Jorge R. Díaz-Valderrama
- 12:25-12:30 **Sudden *Quercus petraea* Decline on Fruška Gora Mt.: Interacting Climatic Stress and Biotic Agents**
Milica Zlatković, Dejan B. Stojanović, Srđan Stojnić, Vladimir Visački, Dejan V. Stojanović & Saša Orlović

COFFEE BREAK

12:50-13:45 DIGITAL POSTERS

- 12:50-12:53 **Modeling Spread Trends and Short-Term Prediction of Pine Wilt Disease Using Spatiotemporal Pattern Mining**
Geonhwi Jung, Mooyoung Im, Nahyun Park, Bomok Choi, Kay Zin Lin Min, Hanmin Kim, Myeongjun Kim, Daesung Kim, Kyeongsoo Lee & Joowon Park
- 12:54-12:57 **Dissecting the Genetic Architecture of *Ulmus minor*'s Resistance to Dutch Elm Disease**
Adrián Miguel-Pizarro, Juan José Robledo-Arnuncio & David Macaya-Sanz
- 12:57-13:00 **The Temporal Pattern and Biological Prerequisites of PWN (*Bursaphelenchus xylophilus*) Departure from the Japanese Pine Sawyer Vector**
Hyeon Suk Jo, Jin Woo Heo, Je-Heon Lim, Su Bin Kim & Dong-Soon Kim



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- 13:01-13:04 **Analysis of Vegetation Structure after Control of Pine Wilt Disease in South Korea**
Seong-Rok Lee, Seung-Jae Lee, Dong-Bin Shin, Ah-Rim Lee, Yeong-Eun Kim, Hee-Ji Kang, Tae-Chul Hur, Joon-Hyung Park & Seung-Hwan Oh
- 13:05-13:08 **Evaluating Chemical Cues and Attraction of *Bursaphelenchus xylophilus* to UK Beetles in the Absence of *Monochamus***
Talor Whitham*, James Ryalls, Luke Bell, Maria L. Inácio, Robbie Girling, Thomas Prior, Margarida Correia, Anna Platoni, Max Blake, Luís Bonifácio & Sarah Facey
- 13:08-13:11 **Assessing the Early Detection of Asymptomatic Pine Wilt Disease Using UAV Multispectral Imagery**
Wontaek Lim & Youngwoo Nam
- 13:12-13:15 **A Spatial Risk Assessment Model for Pine Wilt Disease Based on Outbreak Patterns**
Wontaek Lim, Min-Jung Kim & Youngwoo Nam
- 13:16-13:19 **Spatial Distribution Characteristics of Pine Wilt Disease: Evidence from Wildfire-Affected Areas**
Heeji Kang, Heewon Kwon, Youngjin Kim & Dong Shiqi
- 13:20-13:45 **Summary of the conference - Future Directions**

LUNCH BREAK AT THE VENUE - END OF EVENT

