# INTERNATIONAL SYMPOSIUM ON PLANT PATHOGENIC SCLEROTINIACEAE

**JOINT**

**XIX INTERNATIONAL BOTRYTIS SYMPOSIUM**
**XVII INTERNATIONAL SCLEROTINIA WORKSHOP**
**II INTERNATIONAL MONILINIA WORKSHOP**



# PROGRAMME

**BOTRYSCLEROMONI**

**Thessaloniki 25–30 May 2025**



# WELCOME TO BOTRYSCLEROMONI 2025

**Welcome to Greece!**

The Laboratory of Plant Pathology and the Department of Agriculture of Aristotle University of Thessaloniki are proud to be presenting the International Symposium on Plant Pathogenic Sclerotiniaceae, BOTRYSCLEROMONI 2025, the joint “XIX International Botrytis Symposium”, “XVII International Sclerotinia Workshop” and the “II International Monilinia Workshop”, and look forward to the opportunities this event has to offer.

The exciting program promises to deliver cutting-edge research and innovative solutions for the global plant production industry heavily affected by the Sclerotiniaceae fungal species. It will showcase advancements in knowledge and innovation and provide commercial insights, creating a space for science and industry to meet.

Over the next few days, we encourage all delegates to fully utilize this opportunity to network and exchange ideas with brilliant mind scientists, industry leaders and innovators and to leave Greece inspired to continue working together to explore solutions and improve outcomes in the fight against plant pathogenic Sclerotiniaceae.

*The BotryScleroMoni2025*
*Local Organizing Committee*

# ORGANIZING COMMITTEE

Karaoglanidis George,
Aristotle University, Convener

Markakis Emmanuel,
Hellenic Mediterranean University

Testempasis Stefanos
University of Western Macedonia

Tziros George,
Aristotle University

Sofianos George,
Aristotle University

Petmezas Thanasis,
Aristotle University

Floudas Aggelos,
Aristotle University

Katerina Eleftheriadou,
Aristotle University

# SCIENTIFIC COMMITTEE

Bar Maya, Israel

Bardin Marc, France

Belmonte Marc, Canada

Blanco Ulate Barbara, USA

Elmer Phil, New Zealand

Hahn Matthias, Germany

Jiang Daohong, China

van Kan Jan, the Netherlands

Karaoglanidis George, Greece

i Xin, Canada

Poussereau Nathalie, France

Rollins Jeffrey, USA

Romanazzi Gianfranco, Italy

Rothman Lisa Ann, South Africa

Schnabel Guido, USA

Torres Rosario, Spain

Walker Anne-Sophie, France

# PROGRAMME

## SUN 25 MAY

16:00-19:30
Registration

19:30-19:45
Welcome remarks

19:45-20:30
Inaugural Talk
Prof. Jeff Rollins

20:30-22:00
Welcome Reception

## MON 26 MAY

| | |
|---|---|
| 08:00-09:00 | Registration |
| **Biology-Genetics-Omics I** | |
| 09:00-10:00 | Keynote & Invited presentations |
| 10:00-10:30 | Oral Presentations |
| 10:30-11:00 | Coffee Break |
| **Biology-Genetics-Omics II** | |
| 11:00-12:00 | Keynote & Invited presentations |
| 12:00-13:00 | Oral Presentations |
| 13:00-14:30 | Lunch |
| **Virulence Factors I** | |
| 14:30-15:00 | Keynote presentation |
| 15:00-16:00 | Oral Presentations |
| **Virulence Factors II** | |
| 16:30-17:00 | Invited presentation |
| 17:00-18:00 | Oral Presentations |
| **Evening Leisure** | |

## TUE 27 MAY

| | |
|---|---|
| 08:00-08:30 | Registration |
| **Integrated Control** | |
| 08:30-09:00 | Keynote presentation |
| 09:00-10:15 | Oral Presentations |
| 10:15-10:45 | Coffee Break |
| **Biological Control** | |
| 10:45-11:15 | Keynote presentation |
| 11:15-13:00 | Oral Presentations |
| 13:00-14:30 | Lunch |
| **Poster Session** | |
| 14:30-15:30 | Posters – Series A |
| 15:30-16:00 | Coffee Break |
| 16:00-17:00 | Keynote & Invited presentations |
| 17:00-18:15 | Oral Presentations |
| **City Tour** | |
| 18:30-21:30 | Guided City Tour |

# AT A GLANCE

| WED 28 MAY |
| --- |
| Field Trip |

| THU 29 MAY | |
| --- | --- |
| 08:00-08:30 | Registration |
| **Chemical Control** | |
| 08:30-09:30 | Keynote & Diamond Sponsor presentations |
| 09:30-10:30 | Oral Presentations |
| 10:30-11:00 | Coffee Break |
| **Chemical / Integrated Control** | |
| 11:00-11:30 | Invited presentation |
| 11:30-13:00 | Oral Presentations |
| 13:00-14:30 | Lunch |
| **Poster Session** | |
| 14:30-15:30 | Posters – Series B |
| 15:30-16:00 | Coffee Break |
| Control with Biotechnological approaches | |
| 16:00-16:30 | Keynote presentation |
| 16:30 -17:30 | Oral Presentations |
| **GALLA DINNER** | |
| 21:00-00:00 | Galla Dinner |

| FRI 30 MAY | |
| --- | --- |
| 08:00-08:30 | Registration |
| **Host-pathogen interactions – Defense I** | |
| 08:30-09:00 | Keynote presentation |
| 09:30-10:30 | Oral Presentations |
| 10:30-11:00 | Coffee Break |
| **Host-pathogen interactions – Defense II** | |
| 11:00-11:30 | Invited presentation |
| 11:30-12:30 | Oral Presentations |
| 12:30-13:00 | Voting for next Symposium place |
| 13:00-14:30 | Lunch |
| Detection - Diversity | |
| 14:30-15:30 | Oral Presentations |
| Panel Discussion – Concluding remarks - Awards | |
| 15:30-16:00 | Panel discussion |
| 16:30-17:30 | Awards / Concluding remarks |
| 16:15 | End of the Symposium |





# SCIENTIFIC PROGRAM

## SUNDAY 25 MAY

| | |
|---|---|
| **16:00 - 19:30** | **Attendee Registration and Poster Uploading** |
| **19:30 - 19:45** | **Welcome Remarks, Grand Pietra Hall** |
| **19:45 - 20:30** | **Inaugural Talk JEFF ROLLINS** |
| | **BotryScleroMoni: Bad actors of the Sclerotiniaceae** |
| **20:30 - 22:00** | **Welcome Reception at Porto Palace Hotel** |
| **22:00** | **End of the Day** |

## MONDAY 26 MAY

| | |
|---|---|
| **08:00-09:00** | **Attendee Registration and Poster Uploading** |

## Session I
## BIOLOGY – GENETICS – OMICS I

## SESSION CHAIRS: MATTHIAS HAHN and XUEQIONG XIAO

| | |
|---|---|
| **09:00-09:30** | **KP.1 Keynote Presentation – JAN VAN KAN**<br>*What we learned from analysing Sclerotiniaceae genomes* |
| **09:30-10:00** | **IP. 1. Invited Presentation – XIN LI**<br>*A forward genetic screen in Sclerotinia sclerotiorum: Finding the most unexpected* |
| **10:00-10:15** | **O.1 FRANCISCO JAVIER FERNANDEZ ACERO**<br>*Metaproteomic analysis of the microbiota in Botrytis cinerea-grape interactions: comparative study of noble and gray rot infections* |
| **10:15-10:30** | **O.2 PAULO CANESSA**<br>*Identification and functional characterization of a transcriptional regulator of small extracellular proteins in Botrytis cinerea* |
| **10:30-11:00** | **Coffee Break** |

## Session II
## BIOLOGY – GENETICS – OMICS II

## SESSION CHAIRS: MAYA BAR and VIET-CUONG HAN

| | |
|---|---|
| **11:00-11:30** | **KP. 2. Keynote Presentation – MATTHIAS HAHN**<br>*How can we resolve the redundancy and functions of phytotoxic proteins of Botrytis cinerea and its relatives?* |
| **11:30-12:00** | **IP. 2. Invited Presentation – RITA MILVIA DE MICCOLIS ANGELINI**<br>*Omics approaches for characterization of the brown rot fungal pathogens Monilinia fructicola, Monilinia laxa and Monilinia fructigena* |
| **12:00-12:15** | **O.3 NURIA VALL-LLAURA**<br>*How light spectra regulates Monilinia development and its survival mechanisms* |
| **12:15-12:30** | **O.4 DIAN ZHENG**<br>*Engineering the sexual lifestyle in Botrytis cinerea* |
| **12:30-12:45** | **O.5. ADAM ISTVAN HEGYI**<br>*Decoding noble rot: Transcriptomic insights into Botrytis cinerea and grapevine interaction* |
| **12:45 – 13:00** | **O.6. XUEQIONG XIAO**<br>*Protein SsEmp47 is involved in secretory pathway to facilitate hyphal growth and pathogenicity in Sclerotinia sclerotiorum* |
| **13:00-14:30** | **Lunch Break** |

## Session III
## HOST PATHOGEN INTERACTIONS - VIRULENCE FACTORS I

## SESSION CHAIRS: NATHALIE POUSSEREAU and MAIKEL STEENTJES

| | |
|---|---|
| **14:30-15:00** | **KP. 3. Keynote Presentation – SYLVAIN RAFFAELE**<br>*Evolution of generalist parasitism in Sclerotinia at the transcriptome level* |
| **15:00-15:15** | **O.7 MAGGIE LEVY**<br>*Effectoromics and Glucosinolate Resistance in Botrytis cinerea* |
| **15:15-15:30** | **O.8. MATTHIAS CHOQUER**<br>*A toolbox of effectors in Botrytis cinerea to suppress chitin-triggered plant immunity as a prelude to stimulate plant necrotrophy and symptoms* |

| | |
|---|---|
| **15:30-15:45** | **O.9 ANTONIETA DE CAL**<br>*Monilinia spp. and brown rot: Virulent gene expression differences in early nectarine infection* |
| **15:45-16:00** | **O.10. ZHENYU HE**<br>*Polysaccharide Monooxygenase, SsLpmo1, is involved in the endophytic growth of the mycovirus-infected strain DT-8 of Sclerotinia sclerotiorum in rapeseed* |
| **16:00-16:30** | **Coffee Break** |

## Session IV
## HOST PATHOGEN INTERACTIONS - VIRULENCE FACTORS II

## SESSION CHAIRS: ANTONIETA DE CAL and ALEJANDRA VIELBA FERNANDEZ

| | |
|---|---|
| **16:30-17:00** | **IP.3. Invited Presentation – AMIR SHARON**<br>*CDIPs: friends or foes?* |
| **17:00-17:15** | **O.11 MARIA PATTICHIS**<br>*Identification of Botrytis cinerea virulence hubs through predictive networks and double-stranded RNA silencing* |
| **17:15-17:30** | **O.12. VIRGINIA CASADO DEL CASTILLO**<br>*Investigating the circuits underlying the regulation of pathogenicity, differentiation and light responses in Botrytis cinerea* |
| **17:30-17:45** | **O.13. DONOVAN GARCIA CERON**<br>*Do fungal extracellular vesicles impact the Botrytis cinerea – strawberry interaction?* |
| **17:45–18:00** | **O.14. HAN ZHU**<br>*Dual functionality of pathogenesis-related proteins: defense in plants versus immunosuppression in pathogens* |
| **18:00** | **End of the Day** |

## TUESDAY 27 MAY

**08:00-08:30** **Attendee Registration and Poster Uploading**

## Session V
## Disease management – Integrated Control

## SESSION CHAIRS: PHIL ELMER and MARWA MOUMNI

**08:30-09:00** **KP. 4 Keynote Presentation – GIANFRANCO ROMANAZZI**
*Sustainable approaches using basic substances to manage phytopathogenic Sclerotiniaceae*

**09:00-09:15** **O.15 ETHAN TIPPETT**
*Evaluation of biorational and conventional products for the control of Botrytis cinerea on ornamental crops*

**09:15-09:30** **O.16 MARC BARDIN**
*Can grafting with resistant rootstocks improve tomato resistance to Botrytis cinerea***?**

**09:30-09:45** **O.17 LLUIS PALOU**
*Antifungal edible coatings for postharvest control of plum brown rot caused by Monilinia fructicola*

**09:45-10:00** **O.18 NERINGA RASIUKEVICIUTE**
*Strawberries Botrytis cinerea management strategies: LED light and plant extracts*

**10:00-10:15** **O.19 DAVIDE CORNACCHIA**
*Nanotechnologies, biological and physical means for gray mold management*

**10:15-10:45** **Coffee break**

## Session VI
## Disease Management - Biological Control

## SESSION CHAIRS: MARC BARDIN and ALEXANDRA STARKEY

| | |
|---|---|
| **10:45-11:15** | **KP. 5 Keynote Presentation – DAOHONG JIANG**<br>*Mycoviruses infecting fungi of the family Sclerotiniaceae: potential applications in crop disease management* |
| **11:15-11:30** | **O.20 SARAH DRURY**<br>*Novel and diverse mycoviruses in hypovirulent isolates of Botrytis cinerea* |
| **11:30-11:45** | **O.21 VIET-CUONG HAN**<br>*Known antagonistic microbiota are key drivers in suppressive soils against Sclerotinia sclerotiorum, a widespread soil borne fungal plant pathogen* |
| **11:45-12:00** | **O.22 LOUISE LARISSA MAY DE MIO**<br>*Biocontrol potential of endophytic bacteria from fruit flowers against Botrytis cinerea: mechanisms of action and post-harvest disease control in strawberries* |
| **12:00-12:15** | **O.23 ZHONGWEI ZOU**<br>*Optimization of known and well-characterized beneficial microbes as biocontrol agents to protect soybeans from Sclerotinia sclerotiorum* |
| **12:15-12:30** | **O.24 SOTIRIOS TJAMOS**<br>*Biocontrol efficacy of Pseudomonas putida strain Z13 as a postharvest treatment against Botrytis cinerea in tomatoes* |
| **12:30-12:45** | **O.25 ALESSANDRA DI FRANCESCO**<br>*Aureobasidium pullulans and its multiple potentials in biological control: pullulan production for grey mould management of table grape* |
| **12:45-13:00** | **O.26 DAVID VELA-CORCIA**<br>*Cyclo(Pro-Tyr) elicits conserved cellular damage in Botrytis cinerea by targeting the [H+] ATPase Pma1 in plasma membrane domains* |
| **13:00-14:30** | **Lunch Break** |

## PRESENTATION OF POSTERS
## SERIES A

| | |
|---|---|
| **14:30-15:30** | **Presentation of posters (Series A)** |
| **15:30-16:00** | **Coffee Break** |

## Session VII
## ECOLOGY - EPIDEMIOLOGY

## SESSION CHAIRS: LLUIS PALOU and SARAH DRURY

| | |
|---|---|
| **16:00-16:30** | **KP. 6 Keynote Presentation – LISA ROTHMAN**<br>*The value of epidemiology and modelling for timely action against white mold.* |
| **16:30-17:00** | **IP. 4 Invited Presentation – ROSARIO TORRES**<br>*From the epidemic model to predict the risk of Monilinia spp. infection on stone fruits to its validation and implementation under commercial conditions* |
| **17:00-17:15** | **O.27 SARITA BENNETT**<br>*Simulated Sclerotinia stem rot in Brassica napus identifies role of plant compensation in yield loss calculations* |
| **17:15-17:30** | **O.28 ERICK ZUNIGA**<br>*Epidemiology of almond blossom blight caused by Monilinia laxa in the Ebro Valley, Spain* |
| **17:30-17:45** | **O.29 MOHSEN KHANI**<br>*Epidemiology and infection pathways of Sclerotinia white rot in lentil in South Australia* |
| **17:45-18:00** | **O.30 KWANELE SABELA**<br>*Sclerotinia head rot: the development and the validation of a standard area diagram* |
| **18:00-18:15** | **O.31 ACHOUR AMIRI**<br>*Eco-epidemiology and fungicide resistance profiles of Botrytis spp. in low input pome fruit systems* |

## CITY TOUR

| | |
|---|---|
| **14:30-15:30** | **Organized City Tour and cruise in the Thermaic gulf on a floating bar** |
| **15:30-16:00** | **End of the Day** |

# WEDNESDAY 28 MAY

## FIELD TOUR

| | |
|---|---|
| 08:30 – 09:30 | Departure from Thessaloniki, Meeting Point: Porto Palace Hotel, Arrival at Vergina |
| 09:30 - 11:00 | Royal Tombs of Aigai, Visit the underground museum containing the burial cluster of Philip II of Macedon, father of Alexander the Great |
| 11:00 – 11:45 | Departure from Vergina – Arrival at Kir-Yianni Estate |
| 11:45 – 14:00 | Kir-Yianni Estate, Yianakohori, Naoussa – Vineyards and winery visit |
| 14:00 – 14:30 | Departure from Kir-Yianni Estate arrival at Aghios Nikolaos Grove |
| 14:30 - 17:00 | Lunch |
| 17:00 – 18:30 | Departure from Aghios Nikolaos – Arrival at Porto Palace Hotel, Thessaloniki |
| 18:30 | End of the Day |

## THURSDAY 29 MAY

**08:00-08:30** **Attendee Registration and Poster Uploading**

## Session VIII
## Disease Management – Chemical Control

## SESSION CHAIRS: LOLA FERNANDEZ ORTUNO and HM SURAJ

**08:30-09:00** **KP. 7 Keynote Presentation – GUIDO SCHNABEL**
*Fungicide resistance in B. cinerea and M. fructicola and consequences for disease management*

**09:00-09:30** **DSP. 1 Diamond Sponsor Presentation – JÜRGEN DERPMANN**
*Resistance research & management of major fruit pathogens*

**09:30-09:45** **O.32 RYOTA SAKAI**
*Evaluation of mandestrobin efficacy against Sclerotiniaceae pathogens in Europe*

**09:45-10:00** **O.33 LINCOLN HARPER**
*Fungicide resistance screening of a Botrytis cinerea population from Australian vineyards and development of qPCR-based assays to detect resistance associated mutations in field samples*

**10:00-10:15** **O.34 GEORGE SOFIANOS**
*Characterization and transcriptome analysis of a CRISPR/Cas9 generated Botrytis cinerea mutant possessing the MDR-related V575G mutation in the mrr1 gene*

**10:15-10:30** **O.35 TOM HSIANG**
*A 30-year study on the development of fungicide resistance of Clariireedia jacksonii (=Sclerotinia homoeocarpa) at multiple locations across southern Ontario, Canada*

**10:30-11:00** **Coffee break**

## Session IX
## Disease management – Chemical/Integrated Control

## SESSION CHAIRS: ANNE-SOPHIE WALKER and ERICK ZUNIGA

| | |
|---|---|
| **11:00-11:30** | **IP. 5 Invited Presentation – PALOMA MELGAREJO**<br>*Unlocking the Brown Rot secrets: How etiology, ecology and epidemiology drive biological and integrated disease management caused by Monilinia spp.* |
| **11:30-11:45** | **O.36 CHAO XI LUO**<br>*Molecular mechanisms of fungicide resistance in Monilinia fructicola* |
| **11:45-12:00** | **O.37 GERD STAMMLER**<br>*Overview of the sensitivity of Monilinia and Sclerotinia species to fungicides* |
| **12:00-12:15** | **O.38 CLAUDIO OSORIO NAVARO**<br>*Decreased sensitivity to tebuconazole in Botrytis cinerea from Chilean table grapes is linked to CYP51 and mitochondrial depolarization* |
| **12:15-12:30** | **O.39 JOHANNA WESCHE**<br>*Optimizing brown rot management in peach: integrating biorational fungicides with low-dose DMI fungicides* |
| **12:30-12:45** | **O.40 DAVID PERCIVAL**<br>*Assessing the physiological responses of wild blueberries to Monilinia and Botrytis blossom blight diseases and developing improved disease control technologies* |
| **12:45 – 13:00** | **O.41 MERCEDES MALDONADO GONZALEZ**<br>*Multifaceted biocontrol of necrotrophic fungi: Mode of action, predictive tools and field detection of Bacillus amyloliquefaciens AH2* |
| **13:00-14:30** | **Lunch Break** |

## PRESENTATION OF POSTERS
## SERIES B

| | |
|---|---|
| **14:30-15:30** | **Presentation of posters (Series B)** |
| **15:30-16:00** | **Coffee Break** |

## Session X
## DISEASE MANAGEMENT – BIOTECHNOLOGICAL APPROACHES

## SESSION CHAIRS: JAN VAN KAN and JOHANNA WESCHE

| | |
|---|---|
| **16:00-16:30** | **KP. 8 Keynote Presentation – MARK BELMONTE**<br>*Development and application of RNAi technology to protect crop plants from Sclerotinia sclerotiorum* |
| **16:30-16:45** | **O.42 ALBA LOPEZ-LAGUNA**<br>*Pioneering use of DNA aptamers targeting BcSOD1 protein as a new approach to control Botrytis cinerea and advancing sustainable agriculture* |
| **16:45-17:00** | **O.43 YONG LIANG**<br>*Botrytis effector protein BcCrh1 as inducer of plant immunity for pathogen control* |
| **17:00-17:15** | **O.44 QINGNA SHANG**<br>*SsDLD as a potential target for controlling Sclerotinia disease* |
| **17:15-17:30** | **O.45 PIPPA MICHAEL**<br>*Optimisation of high throughput field phenotyping for Sclerotinia stem rot in lupins* |

## GALA DINNER

| | |
|---|---|
| **21:00 – 24:00** | **Gala Dinner at Porto Palace Hotel** |
| **24:00** | **End of the Day** |

## FRIDAY 30 MAY 2025

### Session XI
### Host-Pathogen Interactions - Defense I

### SESSION CHAIRS: PAULO CANESSA and DOMENICO DI COSMO

| | |
|---|---|
| **08:30-09:00** | **KP. 9 Keynote Presentation – BARBARA BLANCO ULATE**<br>*Ripening-associated susceptibility of fruit to Botrytis and Monilinia* |
| **09:00-09:15** | **O.46 MAYA BAR**<br>*Uncovering factors influencing Botrytis cinerea host specificity and mutualistic beneficial plant interactions* |
| **09:15-09:30** | **O.47 BARBARA DE CONINCK**<br>*The strawberry – Botrytis cinerea interaction: from flower to fruit* |
| **09:30-09:45** | **O.48 ALEJANDRA VIELBA FERNANDEZ**<br>*A fight for survival: The role of the NADPH oxidase RbohD in the Botrytis cinerea- plant interaction* |
| **09:45-10:00** | **O.49 MARK DERBYSHIRE**<br>*Small RNAs: at the interface between Sclerotinia sclerotiorum and plants?* |
| **10:00-10:15** | **O.50 HM SURAJ**<br>*Red alert: Chrysanthemum produces flavonoids and anthocyanins as a defense mechanism against Botrytis cinerea* |
| **10:15–10:30** | **O.51 LUCIA LANDI**<br>*Expression of Monilinia fructicola putative effector genes in peach cultivars and host defense response* |
| **10:30-11:00** | **Coffee Break** |

## Session XII
## Host-Pathogen Interactions - Defense II

## SESSION CHAIRS: MATHIAS CHOQUER and NURIA VALL-LLAURA

| | |
|---|---|
| **11:00-11:30** | **IP. 6 Invited Presentation – JIAN WU**<br>*The genetic and molecular basis of the resistance to Sclerotinia sclerotiorum in oilseed rape* |
| **11:30-11:45** | **O.52 XIN-ZHONG CAI**<br>*Fine-tuning of the dual-role transcription factor WRKY8 via differential phosphorylation for robust broad-spectrum plant immunity* |
| **11:45-12:00** | **O.53 MAIKEL ZERDONER**<br>*Unraveling Botrytis cinerea resistance in polyploid roses through a Genome-Wide Association Study* |
| **12:00-12:15** | **O.54 SILVIO TUNDO**<br>*Bioactivity of the chitin-binding domain (CBD) from a major grapevine chitinase against Botrytis cinerea* |
| **12:15-12:30** | **O.55 JAGREET KAUR**<br>*Genetic Basis of Sclerotinia Stem Rot Resistance in Brassica carinata: QTL Discovery and Implications for Mustard Improvement* |
| **12:30-13:00** | **Short presentation of candidate hosts and voting for the next conference place** |
| **13:00-14:30** | **Lunch Break** |

## Session XIII
## Detection - Diversity

## SESSION CHAIRS:
## ALESSANDRA DI FRANCESCO & STEFANOS TESTEMPASIS

| | |
|---|---|
| **14:30-14:45** | **O.56 ANDRIAN SBODIO**<br>*Multispectral imaging as a non-destructive tool for early Botrytis cinerea detection in strawberries, validated by biomarker analysis* |
| **14:45-15:00** | **O.57 XANTHOULA EIRINI PANTAZI**<br>*AI-driven hyperspectral analysis approach for pre-symptomatic detection of Botrytis cinerea in tomato plants* |
| **15:00-15:15** | **O.58 ANDREW ARMITAGE**<br>*Development of in field tools for early detection of strawberry diseases – Implementing a DNA-based diagnostic assay on a Lateral Flow Device (LFD)* |
| **15:15-15:30** | **O.59 DONATO GERIN**<br>*Sweet cherries and Monilinia species which relationship?* |

## PANEL DISCUSSION – CONCLUDING REMARKS – CLOSING CEREMONY

| | |
|---|---|
| **15:30 – 16:00** | **Panel discussion: what did we learn from this symposium, and where are we going?**<br>**MATTHIAS HAHN, XIN LI, JEFF ROLLINS, GIANFRANCO ROMANAZZI, ROSARIO TORRES, JAN VAN KAN** |
| **16:00-16:15** | **Concluding Remarks – Awards – Closing Ceremony** |
| **16:15** | **End of the Symposium** |



# POSTER PRESENTATIONS

## First Series of Poster Presentations

## Detection-Diversity, Biology-Genetics-Omics, Ecology-Epidemiology, Host/Pathogen Interactions-Defense, Host/Pathogen Interactions - Virulence Factors

### Detection - Diversity

1. EHSAN FATEMI. Exploring pathogen diversity and host susceptibility in Hydrangea macrophylla against gray mold
2. JULIA HEGYI-KALO. Fungal diversity of grape berries in connection to noble rot in different terroirs
3. MEDALI HEIDI HUARHUA-ZAQUINAULA. First genetic characterization of Botrytis cinerea in blueberry production areas in México
4. ZARCO IVANOVIC. Occurrence of botrytis blight on Paeonia lactiflora in Serbia
5. DONATO GERIN. First report of Botrytis cinerea on floral buds and “mignole” olive in the world
6. MARIANA VAN DEVENTER. Developing a low-cost inertial airborne spore sampler for effective Sclerotinia sclerotiorum detection with quantitative PCR

### BIOLOGY – GENETICS - OMICS

7. SURAJ HM. Cracking the cheat code: The emergence of cheaters in experimental evolution of Botrytis cinereal
8. FRANK P.J. PIETERSE. Inferring the regulatory network underlying the developmental choice of producing infection structures in Botrytis cinerea
9. DIAN ZHENG. Introducing meiotic drive in Botrytis cinerea
10. ZHIQUN LYU. Analysis of protein aggregation in response to heat in Botrytis cinerea
11. MATTHIAS CHOQUER. BOBCat: developing a web tool for retrieving information on Botrytis cinerea protein-coding genes
12. ROSARIO TORRES. Cyanide induces dose-dependent toxicity and upregulates cyanide hydratases in Monilinia spp.: insights into fungal detoxification strategies
13. NATHALIE POUSSEREAU. Using tetracycline conditional promotors to control gene expression in Botrytis cinerea
14. ERNESTO PEREZ BENITO. New non-aggressive Botrytis cinerea natural mutants as a tool for genetic analysis of pathogenicity
15. LUCIA LANDI. Investigating the impact of transposons elements and repeat-induced point mutation in the Monilinia fructicola, Monilinia fructigena and Monilinia laxa genomes
16. MARCO CRUDELE. CRISPR/CAS9 mediated knockout of the pks1 gene in the chloromonilicin biosynthetic gene cluster of the brown rot fungus Monilinia fructicola
17. FRANCISCO JAVIER FERNANDEZ ACERO. Optimization of MALDI-TOF MS for Rapid Identification of Botrytis Species: Enhancing Fungal Taxonomy and Crop Protection
18. YUELIN ZHANG. A GDP-mannose-1-phosphate guanylyltransferase as a potential HIGS target against Sclerotinia sclerotiorum.

## ECOLOGY - EPIDEMIOLOGY

19. ANTONIETA DE CAL. Exploring light-dependent adaptive differences in early Monilinia spp. infections
20. ADAM ISTVAN HEGYI. The influence of bacterial communities on noble rot development in grape berries
21. NATASHA HAMADA. Essential oils reduced the mycelial growth of Botrytis cinerea, in vitro
22. STEFANOS TESTEMPASIS. Tracking brown rot in peach orchards: Linking inoculum dynamics to climatic data for improved disease management
23. CHLOE FINDLAY. Temperature response of Botrytis cinerea and B. fabae development in lentil
24. LAUREN FARWELL. Botrytis crown rot: A reemerging disease of strawberry in protected cropping?
25. MARC FERMAUD. Compared analysis of re-built long-term historical annual pressures of Botrytis Bunch Rot, Noble Rot and Downy Mildew in Bordeaux vineyards

## HOST/PATHOGEN INTERACTIONS – VIRULENCE FACTORS

26. MARC FERMAUD. Berry cuticular and secondary compounds changes following heat stress contribute to resistance against Botrytis cinerea in grapevine
27. JEFFREY A. ROLLINS. Insights into the pollen-mimicking floral infection of blueberry by the mummy berry pathogen Monilinia vaccinii-corymbosi
28. PALOMA MELGAREJO. Temporal and tissue-specific transcriptional responses in petals and fruit of nectarine infected by Monilinia laxa
29. MADELINE BONDY. A single laccase is essential for cell wall construction and environmental sensing in Sclerotinia sclerotiorum.
30. ELLA ZIGDON. B. cinerea cell death inducing metabolites
31. KONGYIN LOU. Functional research on SsCIE1 in Sclerotinia sclerotiorum
32. MURIEL VIAUD. Are Botrytis cinerea small RNAs a real threat for grapevine?
33. VIET-CUONG HAN. Consistent and rapid noncontact inoculation methods for basal stem infection by Sclerotinia sclerotiorum in seedlings
34. ERNESTO PEREZ BENITO. Genetic and genomic analysis identifies Bcltf1 as the TF coding gene mutated in field isolate Bc116, deficient in light responses, differentiation and pathogenicity in Botrytis cinerea
35. DOMENICO DI COSMO. Dual RNA-Seq analysis reveals the molecular dialogue between Monilinia fructicola and Prunus persica
36. MATTHIAS HAHN. How can we resolve the redundancy and functions of phytotoxic proteins of Botrytis cinerea and its relatives?
37. MAIKEL STEENTJES. Comparative effector analysis of Botrytis squamosa and Botrytis elliptica.
38. CHUNXIAO ZHU. Protoplast RNA sequencing reveals transcriptional responses in rapeseed leaves to the endophytic growth of SsHADV1-Infected Sclerotinia sclerotiorum

## HOST/PATHOGEN INTERACTIONS - DEFENSE

39. NURIA VALL-LLAURA. Monilinia manipulates the expression of specific PpSWEET family members to cause brown rot in nectarines.
40. INES TGUAFAITI. Investigating asymptomatic Botrytis cinerea infection: Pioneering pathotest development for comprehensive analysis
41. ANDREA VEGA. Gene regulatory networks in Solanum lycopersicum defense response against Botrytis cinerea modulated by N-availability
42. BELEN GUIJARRO. Temporary evolution of the resistance of Monilinia fructicola to fluopyram and pyraclostrobin in the Ebro valley

## Second Series of Poster Presentations

## Disease Management – Chemical Control, Disease Management-Biological/ Integrated Control

## DISEASE MANAGEMENT – CHEMICAL/INTEGRATED CONTROL

43. JULIA HEGYI-KALO. Distribution of fungicide-resistant Botrytis cinerea mutations in Hungarian wine regions
44. GEORGE SOFIANOS. Development of novel ddPCR assays for detection and quantification of SDHI resistance in Botrytis cinerea
45. GEORGE SOFIANOS. Transcriptome analysis of Botrytis cinerea multidrug resistant strains provides insights on the biocontrol efficacy of Bacillus amyloliquefaciens QST713 and Clonostachys rosea IK726
46. ATHANASIOS PETMEZAS. Measuring the frequencies and investigating the mechanisms of fungicide resistance in Monilinia fructicola populations from peach orchards in Greece
47. ATHANASIOS PETMEZAS. Effectiveness of “Green Chemistry” products against Brown Rot of peaches and associated plant defense responses
48. SHE-LIN JIN. Isolation and identification of Chinese milk vetch sclerotiniosis pathogen and determination of indoor fungicides toxicity
49. ERICK ZUNIGA. Chemical and alternative control of almond blossom blight in the Ebro Valley, Spain
50. JUERGEN DERPMANN. FRAC – Working together globally to manage fungicide resistance
51. RITA MILVIA DE MICCOLIS ANGELINI. Development of a qPCR assay for ready-to-use in-field detection and quantification of resistance to SBI-class III fungicides in Botrytis cinerea
52. DOMENICO DI COSMO. Exploring the effects of phenylpyrrole fungicides in Botrytis cinerea by whole transcriptome analysis
53. GIANNI CEREDI. Brown rot disease management on peaches in Italy (Emilia Romagna region)
54. JHULIA GELAIN. Dual Resistance to SDHI and DMI fungicides in Monilinia fructicola from South Carolina Peach Orchards
55. NADA MILUTINOVIC. Determination of residues of fungicides used for Botrytis cinerea Pers. control in raspberry
56. CLEMENTINE LEPINAY. Deciphering the mode of action and the environmental impact of a fungal biocontrol agent against Botrytis cinerea

57. NERINGA RASIUKEVICIUTE. Botrytis cinerea suppression with bacterial isolates
58. LIZETTE NOWERS. Exploring the incidence of Sclerotinia stem rot of canola in different crop rotation systems
59. ALEXANDRA L. STARKEY. Assessing efficacy of essential oils on mycelial growth inhibition of Sclerotinia sclerotiorum and other soilborne phytopathogens, and impacts on soybean seedling health
60. LORENA RODRIQUEZ-COY. Virome characterisation of a collection of Botrytis cinerea from Australia
61. SOTIRIOS TJAMOS. Evaluation of biocontrol agents for induced systemic resistance against Botrytis cinerea in tomato plants
62. RUDY CIGNOLA. Biocontrol activity of wild Aureobasidium pullulans strains isolated during the cold season against Monilinia spp.
63. RICARDO LIMA DE SOUZA. Inhibition of postharvest gray mold and brown rot of nectarines by almond peel extracts
64. EIRINI POULAKI. Microbial volatile organic compounds from Bacillus velezensis K165 induce systemic resistance and protect Arabidopsis thaliana and tomato plants from pathogens
65. EIRINI POULAKI. Biological control of Botrytis cinerea in tomato and cucumber plants using Paraburkholderia oxyphila EP4
66. BOGOLJUB KANDIC. In vitro effectiveness of commercial biofungicides in controlling Botrytis cinerea on strawberries and raspberries
67. CLOETE MARAIS. In-field sunflower and soybean cultivar responses to Sclerotinia sclerotiorum
68. GEORGE TZIROS. Resistance evaluation of Greek grape wine cultivars to Botrytis Bunch rot and study of defense-related gene expression and metabolite
69. SIMONE PIANCATELLI. Soil treatments with essential oils and other natural compounds for the management of Sclerotinia spp. on lettuce
70. ANNAMARIA LUCREZIA D`ORTENZIO. Effect of ozone treatment on postharvest decay of peach fruits in cold storage and evaluation of potential environmental impacts
71. MARWA MOUMNI. Innovative strategies for managing Botrytis spp. in seed-bearing onion
72. ANASTASIOS SAKELLARIOU. A novel approach to manage gray mold by inducing plant resistance using jasmonic acid-loaded chitosan nanoparticles
73. ELENI STEFANIDOU. Sclerotinia sclerotiorum biocontrol in Vicia faba L.: evaluating a novel Bacillus subtilis phytoprotective application
74. CHRISTOS STEPPAS. Combating Sclerotinia sclerotiorum infections on Helianthus annuus and Vicia faba using bacterial antagonists
75. EVRIDIKI GAROUFA. Management of Botrytis leaf blight on young lettuce by the use of Rel-liance® Phytovaccine®
76. CHRISTOS ZAMIOUDIS. Evaluation of the efficacy of selected Trichoderma and Bacillus BCAs against tomato gray mold caused by Botrytis cinerea
77. CHRISTOS ZAMIOUDIS. Harnessing rhizosphere bacteria to combat tomato gray mold: Efficacy evaluation and genetic signatures involved in biocontrol
78. ANNE SOPHIE WALKER. 4-Phenylbutyric Acid as a promising biocontrol antifungal agent: towards the understanding of its mode of action
79. CLAUDIO OSORIO-NAVARRO. Highly pathogenic Botrytis cinerea isolates resistant to carboxamides and hydroxyanilides are controlled by native fungicide-resistant Trichoderma spp. isolated from Chilean table grapes vineyards
80. MOHSEN KHANI. Advancing BioClayTM for effective control of Botrytis grey mould in lentil
81. SEBASTIANO LAERA. Low-temperature atmospheric pressure plasma as a new alternative control method against Botrytis cinerea
82. MEHDIYE TUNC. Inhibitory activity of five essential oils toward Sclerotinia sclerotiorum and in vivo phytotoxic effects on vegetables

DIAMOND SPONSOR

BAYER

PLATINUM SPONSOR

ΧΕΛΛΑΦΑΡΜ Α.Ε.

GOLD SPONSORS

UPL

Κοινοπραξία Συνεταιρισμών
Ομάδων Παραγωγών Ν. Ημαθίας

## SILVER SPONSORS

SIPCAM HELLAS

Research Committee
Aristotle University of Thessaloniki

K&NE EARTH MATTERS

emphyton

BASF
We create chemistry

CORTEVA™ agriscience

## BRONZE SPONSORS

απ' τα περιβόλια του Βεζύρογλου

GRINN greek innovative nurseries

RIJK ZWAAN

syngenta

AgroCell SAFE. FRESH

NURSERIES MILIS

nova green

venus GROWERS

Pavlides

FARMA-CHEM SA
Καλλιεργούμε την Καινοτομία

AGRIS ADVANCING HORTICULTURE

Andermatt Anthesis

NEA STAR FRUIT S.A

VITRO HELLAS

kronos

ANADIAG HELLAS

Agriscience GEO

Journal of Fungi

agricultural cooperatives PIPERIAS

## MEDIA SPONSORS

ΑΓΡΟΤΥΠΟΣ

Γεωργία ΚΤΗΝΟΤΡΟΦΙΑ

agrotypos.gr

## SPECIAL THANKS TO

BOUTARI est. 1879

GAÏA WINES

ΚΥΡ-ΓΙΑΝΝΗ

ΦΙΛΙΑ ΓΗ FILIA GHI

TROUPIS WINERY

Τσιάκκα

VEGORITIS WINERY

Douzos




Κοινοπραξία Συνεταιρισμών
Ομάδων Παραγωγών Ν. Ημαθίας
Θεσσαλονίκης 60 59131 ΒΕΡΟΙΑ
**Τηλ:** 23310 76488 **Φαξ:** 23310 76478
**Email:** keaimathias@gmail.com **Facebook:** keaimathias

UPL
NPP
Natural Plant
Protection by UPL



# Intuity Pro®

## Η ΔΥΝΑΜΗ στη Μονίλια!

- ΝΕΟ ΜΥΚΗΤΟΚΤΟΝΟ!
- Αντέχει στην έκπλυση από τη βροχή!
- Μεγάλη διάρκεια προστασίας!
- Συγκομιδή από την επόμενη μέρα του ψεκασμού!



SUMITOMO CHEMICAL
Creative Hybrid Chemistry
For a Better Tomorrow

## Το «εμβόλιο» για τη φυσική άμυνα στον Βοτρύτη!



# Romeo®

*Ο πρώτος διασυστηματικός ενεργοποιητής των μηχανισμών άμυνας των φυτών με Ζύμες!*

Agrauxine
LESAFFRE PLANT CARE

Τα φυτοπροστατευτικά προϊόντα να χρησιμοποιούνται με ασφαλή τρόπο. Να διαβάζετε πάντα την ετικέτα και τις πληροφορίες σχετικά με το προϊόν πριν από τη χρήση, καθώς και τις προειδοποιητικές φράσεις και σύμβολα. **Romeo ΑΑΔΑ:** 11112/ 01-04-2020 (Υπ.απόφ.τροπ. φάσματος δράσης: 4165/115541/ 04-05-2022) **Intuity PRO ΑΑΔΑ:** 61157/ 11.04.24.

Τηλ: 210 6800 900 www.hellafarm.gr
HellafarmAgro Χελλαφάρμ Α.Ε.

χελλαφαρμ A.E.


Health for all,
Hunger for none
BAYER