



SCIENTIFIC PROGRAM OMGN2025

12th July

Koelnmesse Confex

Koelnmesse Halle 1, 50679 Köln, Germany

8h15-9h00	Check-in and badge pick-up
9h00-9h15	Welcome (Claire Gachon)
9h15-10h00	Chair Mahmut Tor Keynote Bart Thomma (30 min +15 min) <i>Fungal pathogens co-opt ancient antimicrobials for host manipulation</i>
10h00 - 11h15	Host Mechanisms of Resistance and Susceptibility 3 talks + 3 short talks Chair Erica Goss
10h00-10h15	Guido Van Den Ackerveken - <i>Analysis of a lettuce cell surface immune receptor mediating nlp-triggered immunity</i>
10h15-10h30	Chih-Hang Wu - <i>Spatiotemporal dynamics of organelles during resistosome-mediated hypersensitive cell death triggered by an oomycete effector</i>
10h30-10h45	Hou Yingnan - <i>Apoplastic small RNAs contribute to plant immunity against Phytophthora pathogen</i>
10h45-10h55	Qiao Yongli - <i>Sugar metabolism regulates Phytophthora root and stem rot</i>
10h55-11h05	Schlathoelter Ina - <i>Deciphering cacao pod defense responses to Phytophthora palmivora and P. megakarya using comparative RNA-seq analyses</i>
11h05-11h15	Herrera Corzo Mariana - <i>Characterizing Phytophthora palmivora Virulence Gene Variation Using Targeted Capture Sequencing and RNA-seq</i>

Coffee break

11h45-12h45	Flash talks	Chair Elodie Gaulin
11h45	Thomas Hainaux - <i>AGROBODYTM bioactives: novel biocontrol agents for oomycete plant disease control</i>	
11h50	Natalia Ramirez Carrera - <i>Boosting the performance of Pythium oligandrum for biocontrol and biostimulation in potato</i>	
11h55	Susanna Anbu - <i>Deciphering Mechanosensing in Plants During Pathogen Invasion</i>	
12h	Liyuan Wang - <i>Effector gene silencing coordinated by histone methylation and small RNAs enhances host adaptation in Phytophthora sojae</i>	
12h05	Callum Scott - <i>Identification and Functional Characterisation of Extracellular Targets in Phytophthora Infestans</i>	
12h10	Sarah Wurzel - <i>Phylogenomics and Physiology of Oomycete Pathogens Infecting Red Algae, Brown Algae, and Diatoms Towards Biocontrol and Biosecurity</i>	
12h15	Lida Derevnina - <i>Phytophthora infestans suppresses host immune responses by targeting two unrelated helper NLRs</i>	
12h20	Pelin Yuksel - <i>Molecular Characterization of a Natural Resistance Gene Stack in Lettuce</i>	
12h25	Hadeed Ahmad - <i>Strategic application of essential plant nutrients to manage Citrus gummosis by inducing activation of defense-related enzymes</i>	
12h30	Sandra Maria Bejar Hermoza - <i>The Oomycete and Fungal Culture Collection of the Real Jardín Botánico (RJB-CSIC) as a key resource for Oomycete studies</i>	
12h35	Darius Kosmützky - <i>The transcription factor MpGRAS7 is a novel susceptibility factor with a role in reproductive development in Marchantia</i>	

12h40	Claire Gachon - Hypersensitive-like cell death and autophagy are two successive and broadly conserved lines of defence of brown algae against their oomycete pathogens
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Lunch break + posters

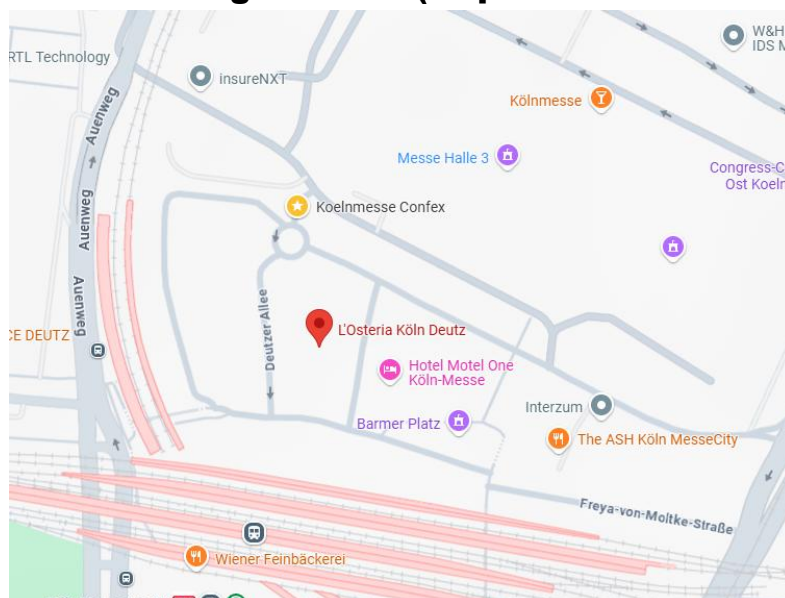
13h45-15h00	Innovation in Management and Diagnostics 3 talks + 3 short talks Chair : Edouard Evangelisti
13h45-14h00	Wang Zhuoyue - <i>Systematic Optimization of LAMP Assays for Kauri Dieback Diagnostics</i>
14h00-14h15	Unal Gizem – <i>Optimizing dsRNA-Based Strategies for Controlling Downy Mildew in Pea</i>
14h15-14h30	Jeanne Miebach – <i>High throughput image analysis and quantification of aggregation of an aquatic fungus on its algal host: Paraphysoderma sedebokerense almost never attacks Haematococcus spp. alone</i>
14h30-14h40	Patricia Manosalva – <i>Phytophthora cinnamomi populations affecting avocado in the U.S.A. exhibit large phenotypic variability and potential introductions from Mexico</i>
14h40-14h50	Paula Ortega – <i>Exploring the Evolution of Saprolegniales: Were ancestral Oomycetes Parasites?</i>
14h50-15h00	Max Pluis - <i>How does Phytophthora make the cut?</i>

Coffee break + posters

15h30-16h15	Keynote by Vivianne Vleeshouwers (30 min + 15 min) <i>Title</i> Chair Miaoying Tian
16h15-17h30	Molecular Mechanisms of Pathogenicity 3 talks + 3 short talks Chair Sebastian Schornack
16h15-16h30	Yan Wang - <i>A Phytophthora apoplastic trypsin-like serine protease targets the receptor-like kinase BAK1 to dampen plant immunity</i>
16h30-16h55	Renuka Kolli - <i>A Phytophthora Effector Targets the Host Chloroplast Movement Mechanism</i>
16h45-17h00	Kostareli Maria-Myrto – <i>Investigating the Molecular Architects of Phytophthora Zoospores</i>
17h00-17h10	Xiao Lin - <i>A Phytophthora infestans RXLR effector S04373 subverts plant ETI by blocking nuclear-cytoplasmic shuttling in plant cells</i>
17h10-17h20	Yuen Enoch Lok Him - <i>A Plant GTPase-Activating Protein Inhibits Autophagy and Immune Trafficking Against P. infestans</i>
17h20- 17h30	Claudia Meisrimler - <i>Transcriptomic and functional analysis of effector-mediated immune suppression in red needle cast disease caused by Phytophthora pluvialis</i>

End of the day

Informal get-together from 6 pm onwards for food and drinks at L'Osteria Cologne Deutz (<https://losteria.net/de/>)



Instructions for presenters

Orals: Thank you to keep within your allocated time and also to make space for questions. For example, we'd suggest that if you're allocated a 15 minutes slot, your talk should last 10 min. Flash talks should be up to three slides maximum. Chairpersons are kindly asked to keep up with time. **Please send your presentation as a .pptx or .pdf file to omgn2025@proton.me at the latest on Jul 10th, so they can be uploaded onto the conference room system. We may not be able to accommodate last minute changes.**

Posters: should be of A0 size maximum, in portrait orientation. Poster numbers will follow soon. Please try to hang your poster in the morning, pins will be available. The poster session will take place during coffee breaks and lunch. As we need to vacate the room space at the end of the day for the MPMI conference, make sure to take back your poster with you before leaving.

Thank you to our sponsors who made this possible:



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We wish you all a fantastic day in Cologne!