



one Health for all plants, crops and trees



20-25 August, France





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Welcome message from the President of the International Society for Plant Pathology (ISPP)

On behalf of the International Society for Plant Pathology, I am pleased to welcome you to Lyon to enjoy the International Congress of Plant Pathology in Lyon! *Bienvenue à toutes et à tous!* ICPP2023 has brought together plant pathologists and plant health researchers from around the world to discuss their latest research as well as current and future issues facing plant health experts. We are being hosted by members of the French Phytopathological Society, who have worked with an international planning committee to develop a program around the timely and challenging Congress theme, "One Health for all plants, crops and trees". The ICPP2023 scientific program and satellite meetings are rich in talks, posters, and opportunities for discussions that consider the integral links of plant health with human, animal and environmental health.

I look forward to welcoming you in person this week. *Profitez bien de votre congrès !* Sincerely,

Jan E. LEACH, President, ISPP Colorado State University, USA

A message from the President of the French Phytopathological Society (SFP)

On behalf of the French Phytopathological Society, it is a real pleasure to welcome colleagues from all over the world to the ICPP2023 Conference. I am so glad that so many of you decided to join us in Lyon for this very promising meeting. I hope each of you will enjoy it, and it will be a pleasure to meet some of you again in person. Just one word: enjoy as much as you can. Bienvenue à toutes et tous.

Sylvie GERMAN-RETANA, President SFP INRAE-Bordeaux Nouvelle Aquitaine, France

A message from the ICPP2023 Organizing Committee

On behalf of the ICPP2023 Organizing Committee, we are very pleased to welcome you to the 12Th International Congress of Plant Pathology! This prestigious meeting is organized in France for the first time and hosted by the Lyon Convention Centre in its magnificent Amphitheater 3000. It's an opportunity for scientists to meet in person again, share Science and build new relationships. More than 2,300 attendees coming from 90 countries participate in this great event. "ONE HEALTH for all Plants, Crops and Trees" is the theme for ICPP2023 that will promote the integration of Plant Health & Plant Pathology into the One Health concept. The diversity of the scientific program offers a dynamic look into the latest knowledge of plant diseases and solutions to control them. 8 plenary sessions, 63 concurrent sessions, 9 round tables, and 20 satellite events will contribute to this dissemination of knowledge. Finally, we hope that ICPP2023 will give you the opportunity to discover Lyon, a UNESCO world heritage site with 2000 years of history ...and the French capital of gastronomy!

Nathalie POUSSEREAU & Mathias CHOQUER, ICPP2023 co-chairs University Claude Bernard Lyon 1, France



CONFERENCE THEME

The One Health concept is a worldwide strategy for expanding interdisciplinary collaborations and communications in all aspects of health care for humans, animals and the environment. Plant Health and Plant Pathology are however usually not included into this definition. ICPP2023 will promote the integration of Plant Health & Plant Pathology into the One Health concept!

The formalization of "One Health" is often attributed to Claude Bourgelat (Lyon, 1712-1779), the founder of the first veterinary school in Lyon in 1761.

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ISPP INTERNATIONAL SOCIETY FOR PLANT PATHOLOGY

THE INTERNATIONAL SOCIETY FOR PLANT PATHOLOGY (ISPP)

The International Society for Plant Pathology (founded in 1968) is a member of the International Union of Biological Sciences (IUBS), the International Union of Microbiological Societies (IUMS), in liaison with the UN Food and Agriculture Organization (FAO). The purpose of the ISPP is to promote the worldwide development of plant pathology, and the dissemination of knowledge about plant diseases and plant health management. The Society sponsors the International Congress of Plant Pathology (ICPP) at regular intervals and other international meetings on plant pathology and closely related subjects. The Society establishes committees to consider and report on special fields or problems in plant pathology. The Society organizes other activities including the publication of journals and newsletters, websites, as approved by the Executive Committee. The ISPP is incorporated under Minnesota USA Statute. The ISPP Council consists of the Executive Committee and Councilors nominated by Associated Societies (or by nominating bodies in countries with no society of plant pathology).



THE FRENCH PHYTOPATHOLOGICAL SOCIETY (SFP)

SFP is a non-profit association, created on May 12, 1971, whose objectives are:

- to encourage and develop studies in phytopathology, science which studies plant diseases and their remedies;
- to facilitate relations researchers in this discipline;
- to promote the dissemination of new data and knowledge in plant pathology.

SFP is a member of EFPP (European Foundation for Plant Pathology) and of ISPP (International Society for Plant Pathology), which gathers all the national societies of plant pathology, in particular APS, BSPP and SIPaV with which SFP has close relations. SFP is also an associate member of COSSAF (College of Academic Societies of France) and of BioGée (Federation of Life Sciences and Technologies, Earth Sciences and the Environment).

ICPP2023

ORGANIZING COMMITTEE

President

Valérie VERDIER,

President and CEO of the IRD.

Research Institute for Sustainable Development, Marseille, France.

Vice Presidents

Greg JOHNSON, ISPP Immediate Past President, Australia.

Khaled MAKKOUK, ISPP Vice-President for Subject Matter Committees, Arab Journal of Plant Protection Editor-in-Chief, Beirut, Lebanon.

Monica HOFTE, University of Ghent, Belgium.

Bart THOMMA, University of Cologne, Germany.

Organizing Chairpersons

Mathias CHOQUER, SFP - French Phytopathological Society board, University of Lyon 1, France. Nathalie POUSSEREAU, ISPP Vice-President for ICPP congress, University of Lyon 1, France.

Scientific Programme Committee

Chair: Didier THARREAU.

SFP Former-Secretary, CIRAD-International Cooperation in Agricultural Research for Development, Montpellier, France.

Ranajit BANDYOPADHYAY, IITA-International Institute of Tropical Agriculture, Ibadan, Nigeria.

Odile CARISSE, Chair of ISPP SMC Epidemiology, Agriculture and Agri-Food Canada, St-Jean-sur-Richelieu, Québec, Canada.

Emerson DEL PONTE, Federal University of Viçosa, Brazil.

Antonio DI PIETRO, University of Cordoba, Spain.

Diana FERNANDEZ, SFP Past-President, IRD, Montpellier, France.

Florence FONTAINE, University of Reims, France.

Pascal FREY, SFP Former-President, INRAE-Research Institute for Agriculture, Food and Environment, Champenoux, France.

Sylvie GERMAN-RETANA, SFP President, INRAE, Bordeaux, Fran.

Marie Agnès JACQUES, INRAE, Angers, France.

Sophien KAMOUN, Sainsbury Laboratory, Norwich, UK.

Ousmane KOITA, University of Bamako, Mali.

Thierry LANGIN, CNRS-National Center for Scientific Research, Director International Research Centre on Sustainable Agroecosystems, Clermont-Ferrand, France.

Jan E. LEACH, ISPP President, University of Colorado, USA.

Marc-Henri LEBRUN, CNRS, Paris-Saclay, France.

Cindy MORRIS, INRAE, Avignon, France.

Gloria MOSQUERA, CIAT- International Center for Tropical Agriculture, Cali, Colombia, USA.

You-Liang PENG, President Chinese Society of Plant pathology, China Agricultural University, Beijing, China.

Philippe REIGNAULT, ANSES-Agency for Food, Environmental and Occupational Health & Safety, Angers, France.

Silvia RESTREPO, Vice-President Los Andes University, Bogota, Colombia.

Ivan SACHE, SFP Former-President, AgroParisTech, Paris-Saclay, France.

Eva STUKENBROCK, Christian-Albrechts University of Kiel, Germany.

Local Arrangement Committee (Lyon, France)

Benoit BARRÈS, ANSES - Agency for Food, Environmental and Occupational Health & Safety.

Franck BERTOLLA, University of Lyon 1.

Hasna BOUBAKRI, University of Lyon 1.

Typhaine BRUAL, University of Lyon 1.

Christophe BRUEL, University of Lyon 1.

Mathias CHOQUER, University of Lyon 1.

Amélie de VALLÉE, University of Lyon 1.

François-Xavier GILLET, University of Lyon 1.

Erwan GUEGUEN, University of Lyon 1.

Feth el Zahar HAICHAR, INSA - National Institutes of Science and Technology.

Florence HOMMAIS. University of Lyon 1.

Nathalie POUSSEREAU, University of Lyon 1.

Claire PRIGENT-COMBARET, CNRS - National Center for Scientific Research.

Yvan RAHBÉ, INRAE - Research Institute for Agriculture, Food and Environment.

Christine RASCLE, CNRS - National Center for Scientific Research.

Cécile RIBOT, University of Lyon 1.



Get Social During the Meeting!

Keep your finger on the pulse of the meeting, follow the official #ICPP2023 hashtag, and engage with fellow attendees!

Locate your favorite workshops, view photos, and exchange ideas with colleagues on social media.

Use **#ICPP2023** on Twitter, Facebook, and Instagram to share your *ICPP2023* experience with your network.







ICPP Central—Registration Hours & Speaker Ready Room

Sunday, August 20	→ 17:00 - 20:00
Monday, August 21	→ 07:30 - 20:00
Tuesday, August 22	→ 08:00 - 20:00

Wednesday, August 23	→ 08:00 - 20:00
Thursday, August 24	→ 08:00 - 20:00
Friday, August 25	→ 08:00 - 12:00

The Speaker Ready Room is available for presenters to make any last-minute changes to presentations and to do the final loading of presentations. All session presenters must upload their presentations the day before they are scheduled to present.

Only Lyon Convention Bureau

This desk will be staffed with a Lyon expert, who will be able to answer questions and assist with dinner reservations, tours, and activities.

Monday, August 21	→ 10:00 - 16:30
Tuesday, August 2	→ 10:00 - 16:30
Wednesday, August 23	→ 10:00 - 18:30

Photo Release

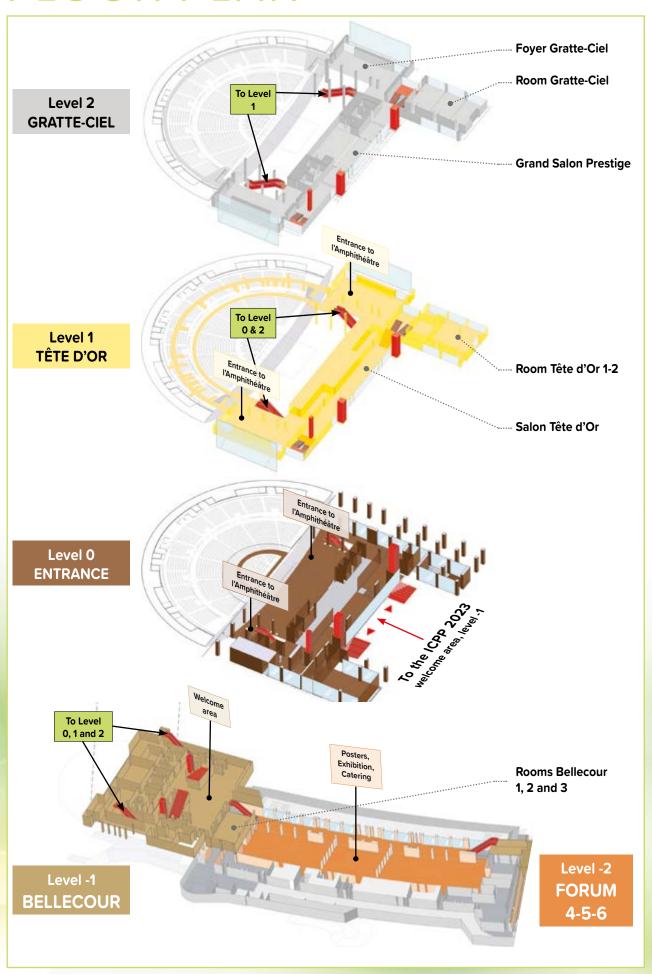
Photographs will be taken during the meeting. By registering for this meeting, you agree to allow ISPP and SFP to use photos of you in any of their publications and/or on their websites and membership materials.







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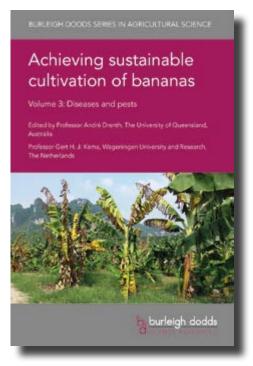
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- INTEGRATED PEST MANAGEMENT
- DURABLE DISEASE RESISTANCE
- PLANT PATHOGEN EPIDEMIOLOGY
- INTEGRATED DISEASE MANAGEMENT
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www.bdspublishing.com

Forthcoming volume on pests and diseases to complete collection on sustainable cultivation of bananas



- Provides a comprehensive analysis of the major pests and diseases affecting global banana production
- Addresses the economic impact of individual pests and diseases on farm profit margins
- Reviews current management strategies available to banana growers and producers to control and/or prevent future outbreaks of pests and disease

World-renowned experts return to edit the third volume:



Professor André Drenth, The University of Queensland, Australia



Professor Gert Kema, Wageningen University and Research, The Netherlands

Find out more about the book from the editors in their Chaired session: C8.5 – Controlling Globally Developing Disease Threats of Bananas (Bellecour 1: 18:00-20:00 – 24th August 2023).

GENERAL PROGRAM-AT-A-GLANCE



SUNDAY, AUGUST 20			
17:00			
	Registration	Welcome reception 18:00-20:00	
20:00		10.00 20.00	

MONDAY, AUGUST 21			
08:30	Plenary & Jakob Eri	Opening	
10:00	COFFEE BREAK	AND EXHIBITION	
12:30	KEYNOTE	LECTURE	
14:00	LUNCH AND	EXHIBITION	
16:00	CONCURREN	IT SESSIONS	
16:30	COFFEE BREAK	AND EXHIBITION	
18:00	KEYNOTE	LECTURE	
20:00	POSTERS SESSION, FLASH TALK SESSION AND EXHIBITION	ROUND TABLES 18:15 - 19:45	

TUESDAY, AUGUST 22		
08:30		
	KEYNOTE	LECTURE
10:00	COFFEE BREAK	AND EVUIDITION
10:30	COPPEE BREAK	AND EARIBITION
	CONCURREN	IT SESSIONS
12:30		
14:00	LUNCH AND	EXHIBITION
14.00		
	CONCURREN	IT SESSIONS
16:00		
16:30	COFFEE BREAK AND EXHIBITION	
	KEYNOTE LECTURE	
18:00		
	POSTERS SESSION,	ROUND TABLES
	FLASH TALK SESSION AND EXHIBITION	18:15 - 19:45
20:00	AND ENTIRE LIGHT	

WEDNESDAY, AUGUST 23		
08:30		
10:00	KEYNOTE	LECTURE
10:30	COFFEE BREAK	AND EXHIBITION
	CONCURREN	IT SESSIONS
12:30		
14:00	LUNCH AND	EXHIBITION
	KEYNOTE LECTURE	
15:30		10 1 01
16:00	Keynotes conclusio	
16:30		COFFEE BREAK
18:30	POSTERS SESSION, FLASH TALK SESSION AND EXHIBITION	ROUND TABLES
20:00 00:00	Conference dinner (co	mpulsary registration)

THURSDAY, AUGUST 24		
08:30		
40-20	CONCURREN	NT SESSIONS
10:30	COFFEE BREAK A	AND EXHIBITION
	CONCURREN	IT SESSIONS
13:00		
14:30	LUNCH AND	EXHIBITION
16:30	CONCURREN	IT SESSIONS
17:00		COFFEE BREAK
	POSTERS SESSION, FLASH TALK SESSION AND EXHIBITION	ROUND TABLES 16:45 - 17:45
18:00	CONCURREN	UT SESSIONS
20:00	CONCURREN	IT SESSIONS

FRIDAY, AUGUST 25		
08:30		
	CONCURRENT SESSIONS	
10:30		
11:00	COFFEE BREAK	
	CLOSING	
12:30	CEREMONY	
14:00		
46.00	SFP GENERAL ASSEMBLY	
16:00		
18:00	CONFERENCE GRAND PUBLIC	

17:00 - 20:00 Registration Hall Bellecour

18:00 - 20:00 Welcome Reception

Forum 4-5-6

The ICPP2023 team is pleased to invite you to an intimate welcome reception before the congress starts the following day.

Let's welcome the ICPP_by_bike, and support the ISPP Resilience Bursary for Plant Pathologists.

We are looking forward to meeting you over wine and cheese, the basics of the French way of life!

A professional music band will also be accompanying us during this cocktail for the greatest pleasure of our ears.





#ICPP_by_bike is a collective of about 20 scientists who strongly believe in facilitating biking as a means of personal and professional transportation – at all scales. From our homes and research institutes in Avignon, Montpellier and Bordeaux in France, Milan in Italy, Stratford-upon-Avon in the UK and Columbus, Ohio in the USA we will set out together for the ICPP-2023 conference in Lyon along the ViaRhôna (https://en.viarhona.com/) bike path starting from the legendary Pont Saint Bénezet bridge in Avignon. The main goals of the #ICPP_by_bike collective are to raise awareness about the carbon footprint of our professional and personal activities and to confront a biking challenge that can reveal obstacles to reducing our footprints. These goals are part of growing initiatives concerning environmental and social reasonability of our behaviors as citizens and professionals that include diverse actions ranging from reducing the use of pesticides in agriculture to fostering social and economic justice. To achieve our goal of biking for three days for a total of >250 km together in the August heat of southern France, we have spent several months building a cohesive team founded on a sense of solidarity. We would like to extend this solidarity to scientists qualifying for the ISPP Resilience Bursary. Please donate to the ISPP Resilience bursary in recognition of the kilometers we will pedal. For more information about #ICPP_by_bike contact cindy.morris@inrae.fr

The International Society for Plant Pathology (ISPP) (@Food_Security) established a "Resilience Bursary for Plant Pathologists" in 2022. ISPP contributed to and received funds from other plant pathology Societies and individuals to support emergency/refugee situations, specifically for plant pathologists. Currently the fund has supported about 13 refugee scientists from Ukraine through support for placements in Polish Research Agencies co-ordinated by the Polish Phytopathological Society. We are also liaising with the Turkish Society of Plant Pathology and the Arab Society for Plant Protection and the American Phytopathological Society (APS) Office of International Programs (OIP), to support students affected by the 2023 earthquake in Turkiye and Syria. For more information or

earthquake in Turkiye and Syria. For more information of questions about donations, contact resilience@isppweb. org. To keep up on news about the ISPP Resilience Bursary, subscribe to the ISPP Newsletter (It's free) https://www.isppweb.org/newsletters/search_volume.html

Live music band during the welcome reception





8:30 - 10:00	Plenary Opening & Jakob Eriksson Prize	L'Amphithéâtre
10:00 - 10:30	Coffee break and exhibition	Forum 4-5-6
10:30 - 12:30	K1 - Plant Pathology in a One Health World	L'Amphithéâtre
12:30 - 14:00	Lunch and exhibition	Forum 4-5-6
	C1.1 - Biological Control - Part 1 The importance of augmentative biocontrol and plant microbiome function for plant health	L'A mphithéâtre
	C1.2 - Plant virus and host interactions from molecular mechanisms to crop protection	Gratte Ciel
	C1.3 - Plant responses to pathogens	Grand Salon Prestige
14:00 - 16:00	C1.4 - Mycotoxin producing fungi and their management: A serious challenge to attain the One Health goals	Tête d'Or 1-2
	C1.5 - Bioinvasion in the urban environment: Pathways, early warning, mitigation measures, institutional frameworks and policy implementation	Salon Tête d'Or
	C1.6 - Mind the Gap: Innovation and Opportunities in Seed Health testing	Bellecour 1
	C1.7 - Impact of war and conflicts in plant pathology research and food safety of countries	Bellecour 2-3
16:00 - 16:30	Coffee break and exhibition	Forum 4-5-6
16:30 - 18:00	K2 - Food Security in an Unsecure Future & Glenn Anderson Lecture	L'Amphithéâtre
40.00 20.00	Poster viewing session 1	Forum 4-5-6
18:00 - 20:00	F-21 - Flash Talk session	Agora
	R1.1 - Getting rights right: A round table exploration of Indigenous rights and participation in plant pathology	L'Amphithéâtre
18:15 - 19:45		
	R1.2 - Management of postharvest diseases in Mediterranean countries to reduce food waste	Bellecour 2-3
CLUTTING BIRDS	The state of the s	

8:30 - 10:00 Plenary Opening & Jakob Eriksson Prize

L'Amphithéâtre

Chairpersons:

Jan E. LEACH, ISPP President (Colorado State University, Fort Collins - UNITED STATES) Sylvie GERMAN-RETANA, SFP President (INRAE-Bordeaux Nouvelle Aquitaine, Bordeaux - FRANCE) Valérie VERDIER, ICPP2023 Congress President (Research Institute for Sustainable Development, Marseille - FRANCE)

Presentation of the 13th Jakob Eriksson Prize 2023 for Plant Pathology

Dan FUNCK-JENSEN, Chair of Eriksson Commission (Swedish University of Agricultural Sciences, Uppsala - SWEDEN) Jan E. LEACH, ISPP President (Colorado State University, Fort Collins - UNITED STATES)



The 13th Jakob Eriksson Prize is awarded to Professor Silvia Restrepo of the Universidad de los Andes, Bogota, Colombia for her pioneering international work in mycology and plant pathology, with a focus on diseases that impact crops important to the developing world such cassava and potato.

Jakob Eriksson Prize Oration - My Journey Studying Plant Pathology in Colombia: More Rewarding Than Challenging

Silvia RESTREPO (Universidad de los Andes, Bogota - COLOMBIA)

Plenary Wrap-Up and Announcements:

Nathalie POUSSEREAU and Mathias CHOQUER, ISPP Congress Vice Presidents (University of Lyon 1, Lyon - FRANCE)

10:00 - 10:30

Coffee break and exhibition

Forum 4-5-6

10:30 - 12:30

K1 - Plant Pathology in a One Health World

L'Amphithéâtre

Chairpersons:



Brenda WINGFIELD (University of Pretoria, Pretoria - SOUTH AFRICA)



Ivan SACHE (Paris-Saclay University, Paris - FRANCE)



Plant health for ONE HEALTH in central and west Africa Justin PITA

(Université Félix Houphouët-Boigny, Abidjan - IVORY COAST)



What is the added value of One Health for plant health? Cindy MORRIS

(INRAE, Montfavet - FRANCE)



Antimicrobial use and resistance in plant agriculture: a one-health perspective **Descartes KOUMBA**

(Food and Agriculture Organization of the United Nations (FAO), Rome - ITALY)



Empowering an indigenous perspective in the response to invasive pathogens Melanie MARK-SHADBOLT (Te Tira Whakamataki,

Rangiora - NEW ZEALAND)



Posters exhibition created by bachelor students on «One Health - One World -A Fairy Tale?» **Mathias CHOQUER** (University Lyon 1, Lyon - FRANCE)

12:30 - 14:00

Lunch and exhibition

Forum 4-5-6

Detailed program



14:00 - 16:00

CONCURRENT SESSIONS

C1.1 - Biological Control - Part 1

The importance of augmentative biocontrol and plant microbiome function for plant health

L'Amphithéâtre

Chairpersons:

David B COLLINGE (University of Copenhagen, Copenhagen - DENMARK)

Dan Funck JENSEN (SLU, Swedish University of Agricultural Sciences, Uppsala - SWEDE)

Sabrina SARROCCO (University of Pisa, Pisa - ITALY)

14:00 C1.1-1 - Beneficial bacteria-fungi interactions to increase plant growth and health

Stéphane COMPANT (AIT Austrian Institute of Technology GmbH, Center for Health and Bioresources, Bioresources Unit, Tulin - AUSTRIA)

14:20 C1.1-2 - The role of small RNAs in regulating mycoparasitic interactions

Mukesh DUBEY (Swedish University of Agricultural Sciences, Uppsala - SWEDEN)

- 14:35 C1.1-3 Trichoderma in the biocontrol of non-conventional targets: nematodes and insect pests Enrique MONTE (University of Salamanca, Salamanca SPAIN)
- 14:55 C1.1-4 Plant modifies fungal non-self recognition to facilitate mycovirus transmission Jiatao XIE (Huazhong Agricultural University, Wuhan CHINA)
- 15:10 C1.1-5 Intraspecific phenotypic and genetic variation in biocontrol interactions: challenges and opportunities

Magnus KARLSSON (Swedish University of Agricultural Sciences, Uppsala - SWEDEN)

15:30 C1.1-6 - Aureobasidium pullulans: up-and-coming biocontrol agent against crown rot, root rot, and grey mould

Mudassir IQBAL (Swedish University of Agricultural Sciences, Alnarp - SWEDEN)

C1.2 - Plant virus and host interactions from molecular mechanisms to crop protection

Gratte Ciel

Chairpersons:

Anders HAFREN (Swedish University of Agriculture, Uppsala - SWEDEN) Véronique ZIEGLER-GRAFF (IBMP, Strasbourg - FRANCE)

14:00 **C1.2-1** - Understanding the plant manipulation by geminiviruses

Rosa LOZANO-DURÁN (Center for Molecular Plant Biology (ZMBP), University of Tübingen, Tübingen - GERMANY)

14:20 C1.2-2 - A novel ilarvirus protein is expressed via stop codon readthrough and suppresses rdr6-dependent rnai

Nina LUKHOVITSKAYA (University of Cambridge, Cambridge - UNITED KINGDOM)

14:35 C1.2-3 - Analysis of the interactome of 17k protein, an important virulence factor conserved in luteoviruses and poleroviruses

Daowen WANG (Henan Agricultural University, Zhengzhou - CHINA)

- 14:55 C1.2-4 A plant virus exploits actin filament-binding kinesin motors to escape xenophagy Nirbhay Kumar KUSHWAHA (Swedish University of Agricultural Sciences, Uppsala SWEDEN)
- 15:10 C1.2-5 Investigating the antiviral defenses protecting plant stem cells and germline from infection Marco INCARBONE (Gregor Mendel Institute (GMI), Vienna AUSTRIA)
- 15:30 C1.2-6 Two Viral Proteins Translated from one Open Reading Frame Target Different Layers of Plant Defence

Xueping ZHOU (Institute of Plant Protection, China Academy of Agricultural Sciences, Beijing - CHINA)

14:00 - 16:00

CONCURRENT SESSIONS (next)

C1.3 - Plant responses to pathogens

Grand Salon Prestige

Chairpersons:

Carolina Sardinha FRANCISCO (Universität of Kiel, Kiel - GERMANY) Isabel MI SAUR (University of Cologne, Cologne - GERMANY)

14:00 C1.3-1 - Secretion of virulence factors determines the interaction of opportunistic Xanthomonas bacteria with the host and the microbiota

Sebastian PFEILMEIER (University of Amsterdam, Amsterdam - NETHERLANDS)

- 14:20 C1.3-2 Influence of elevated temperatures on resistance against phoma stem canker Henrik STOTZ (University of Hertfordshire, Hatfield, UNITED KINGDOM)
- 14:35 C1.3-3 Impact of global warming on susceptibility of European maize cultivars to corn smut infections Karina VAN DER LINDE (University of Regensburg, Regensburg GERMANY)
- 14:55 C1.3-4 Arabidopsis Nad Kinase C (NADKC): a Missing link between CA2+ signaling, metabolism, and plant stress response

Elisa DELL'AGLIO (University of Milan, Milan - ITALY)

- 15:10 C1.3-5 Stomata, key players in wheat resistance to ZymoSeptoria tritici Cyrille SAINTENAC (Université Clermont Auvergne / INRAE GDEC, Clermont-Ferrand - FRANCE)
- 15:30 C1.3-6 SNTOX5 modulates the host immune system to induce programmed cell death and facilitate mesophyll colonization

Gayan KARIYAWASAM (Department of Plant Pathology, North Dakota State University, Fargo, Nd - UNITED STATES)

C1.4 - Mycotoxin producing fungi and their management: a serious challenge to attain the One Health goals

Tête d'Or 1-2

Chairpersons:

Paola BATTILANI (Università Cattolica del Sacro Cuore, Piaceenza - ITALY)
Alejandro ORTEGA-BELTRAN (International Institute of Tropical Agriculture, Ibadan - NIGERIA)

- 14:00 C1.4-1 Prediction of climate change impact on occurrence and prevalence of mycotoxin producing fungi
 Marco CAMARDO LEGGIERI (Università Cattolica del Sacro Cuore, Department of Sustainable Crop Production, Piacenza ITALY)
- 14:20 C1.4-2 Pathogenicity, mycotoxins, and genetics of the toxinogenic Fusarium proliferatum Antonio MORETTI (Research National Council of Italy, Bari ITALY)
- 14:35 C1.4-3 Aflatoxin biocontrol: a climate-smart technology protecting staple crops in the sahel Titilayo FALADE (International Institute of Tropical Agriculture, Ibadan NIGERIA)
- 14:55 C1.4-4 Identification and immobilization of a patulin biodegrading enzyme cgsdr and its application in detoxification of apple juice

Boqiang LI (Institute of Botany, Chinese Academy of Sciences, Beijing - CHINA)

- 15:10 C1.4-5 Efficacy of the Aspergillus favus atoxigenic strain technology to reduce risks of aflatoxin contamination in commercial tree nut orchards in California

 Themis J. MICHAILIDES (Parlier, UNITED STATES)
- 15:30 C1.4-6 Preparing the oat industry for HT2 and T2 mycotoxin legislation Simon EDWARDS (Harper Adams University, Newport UNITED KINGDOM)

Detailed program



14:00 - 16:00 CONCURRENT SESSIONS (next)

C1.5 - Bioinvasion in the urban environment: pathways, early warning, mitigation measures, institutional frameworks and policy implementation

Salon Tête d'Or

Chairpersons:

Carmen MORALES-RODRIGUEZ (Tuscia University, Viterbo - ITALY)
Johanna WITZELL (Faculty of Technology, Vaxjo - SWEDEN)

- 14:00 C1.5-1 Urban tree inventories an effective tool in biosecurity?

 Johan OSTBERG (Nature Based Solution Institute AB, Malmö SWEDEN)
- 14:20 C1.5-2 Complex health issues faced by urban trees

 Marta BELKA (Poznan University of Life Sciences, Poznan POLAND)
- 14:35 C1.5-3 The value of botanical gardens for global plant health research: a South African case study Trudy PAAP (Department of Biochemistry, Genetics and Microbiology, Forestry and Agricultural Biotechnology Institute, University of Pretoria, Pretoria - SOUTH AFRICA)
- 14:55 C1.5-4 Tree insect pests and pathogens: socio-economic and environmental impacts in urban areas Susanne RAUM (Technical University of Munich, Chair for Strategic Landscape Planning and Management, Freising GERMANY)
- 15:10 C1.5-5 Reporting systems and citizen science for the detection of regulated tree pests and pathogens in Britain Ana Maria PEREZ SIERRA (Forest Research, Farnham, England UNITED KINGDOM)
- 15:30 C1.5-6 The epidemic spread of Phytophthora nicotianae in a mediterranean park in Athens is associated with high site invasibility and pathogen invasiveness

 Andrea VANNINI (Universita degli Studi della Tuscia, Viterbo ITALY)

C1.6 - Mind the Gap: Innovation and Opportunities in Seed Health testing Bellecour 1

Chairpersons:

Lisa ROTHMANN (University of the Free State, Bloemfontein - SOUTH AFRICA) **Gerbert HIDDINK** (Enza Zaden, Enkhuizen - NETHERLANDS)

- 14:00 C1.6-1 Impact on global food security and biological relevance Rose SOUZA-RICHARDS (International Seed Federation, Nyon - SWITZERLAND)
- 14:20 C1.6-2 Identification and prevalence of seedborne fungal pathogens associated with soybean Lisa ROTHMANN (University of the Free State, Bloemfontein SOUTH AFRICA)
- 14:35 C1.6-3 Streamlining diagnostics for seeds imported into Australia Fiona CONSTABLE (Agriculture Victoria, Bundoora AUSTRALIA)
- 14:55 C1.6-4 Identification, detection and management of seedborne squash pathogens Marwa MOUMNI (Marche Polytechnic University, Ancona ITALY)
- 15:10 C1.6-5 Future for HTS in seed health testing?

 Harrie KOENRAADT (Naktuinbouw (Netherlands inspection service for horticulture), Roelofarendsveen NETHERLANDS)
- 15:30 C1.6-6 Molecular detection of Ustilago nuda in barley seeds and corresponding field infection levels Cecilia PANZETTI (Agroscope, Zurich SWITZERLAND)

Detailed program

14:00 - 16:00

CONCURRENT SESSIONS (next)

C1.7 - Impact of war and conflicts in plant pathology research and food safety of countries

Bellecour 2-3

Chairpersons:

Jean-Jacques HERVE (Académie d'Agriculture de France - Relais territorial Centre, Paris - FRANCE)

Alex SHEVCHENKO (Taras Shevchenko National University of Kyiv, Kiev - UKRAINE)

Kateryna UDOVYCHENKO (Institute of Horticulture of National Academy of Agrarian Sciences of Ukraine, Novosilky, UKRAINE)

- 14:00 C1.7-1 Research and education in plant virology in Ukraine: the present is foggy, the future is bright? Irena BUDZANIVSKA (Taras Shevchenko National University of Kyiv, Kyiv UKRAINE)
- 14:20 C1.7-2 Impact of war and climate change on viral diseases of winter wheat a threat to food security Alina DUNICH (ESC "Insitute of Biology and Medicine", Taras Shevchenko National University of Kyiv, Kyiv UKRAINE)
- 14:35 C1.7-3 Keep calm and grow plants, or how horticulture survives in war in Ukraine Kateryna UDOVYCHENKO (Institute of Horticulture of National Academy of Agrarian Sciences of Ukraine, Novosilky - UKRAINE)
- 14:55 C1.7-4 Crop pathogen severity and pests in banana, cassava, potato, and sweetpotato production in the lake Kivu region of Rwanda and Burundi
 R. A. MOUAFO-TCHINDA (Plant Pathology Department, University of Florida, Gainesville, FI UNITED STATES)
- 15:10 C1.7-5 Phytosanitary management of icarda's germplasm seed collections for better future use
 Safaa KUMARI (International Center for Agricultural Research in the Dry Areas (ICARDA), Terbol Station, Zahle LEBANON)
- 15:30 C1.7-6 Emerging and (re)emerging viral threats for commercial plants in Ukraine: War and others problems Alex SHEVCHENKO (Taras Shevchenko National University of Kyiv, Kyiv - UKRAINE)

16:00 - 16:30 Cof

Coffee break and exhibition

Forum 4-5-6

Detailed program



16:30 - 18:00

K2 - Food Security in an Unsecure Future & Glenn Anderson Lecture

L'Amphithéâtre

Chairpersons:



Giuseppe STANCANELLI (European Food Safety Authority (EFSA), Parma - ITALY)



Lise KORSTEN (University of Pretoria, Pretoria - SOUTH AFRICA)



Lone BUCHWALDT (Canadian phytopathological society, Saskatoon - CANADA)

Bellecour 2-3



K2-

The Glenn Anderson lecture: agrifood system for a food and nutrition secure world: From efficiency to resilience
Bram GOVAERTS (Director General, CIMMYT, Texcoco - MEXICO)



K2-2

The beauty and complexity of wheat disease control Fiona DOOHAN (University College Dublin, Dublin - IRELAND)



K2-3

Crises Abound: Food Security, Health, Climate, Energy, Pandemics.

How Supercomputing, AI, and Large-Scale Systems Biology in a One Health

Framework Can Help Address the Major Challenges We Are Facing

Daniel A. JACOBSON (Biosciences Oak Ridge National Laboratory, Oak Ridge - UNITED STATES)

R1.2 - Management of postharvest diseases in Mediterranean

18:15 - 19:45

ROUND TABLES

countries to reduce food waste

R1.1 - Getting rights right: A round table exploration of Indigenous rights and participation in plant pathology	L'Amphithéâtre

19	2	- 2	0.	2

POSTERS

	Poster viewing session 1	Forum 4-5-6	
	F-21 - Flash Talk session	Agora	
18:15	F1.1-1 - Insights into the generalist lifestyle and biocontrol activity of fungal species through analysis of their predicted secretomes Edoardo PIOMBO (Swedish University of Agricultural Sciences, Uppsala - SWEDEN)	of Clonostachys	
18:20	F1.1-2 - Isolation and identification of bacterial strains from apple flowers in trenting as biocontrol agents of Erwinia amylovora Anna PEDRONCELLI (University of Trento, San Michele All'adige (Tn) - ITALY)	o and their evaluation	
18:25	F1.1-3 - Biocontrol of Fusarium wilt in tomato (solanum lycopersicum I.) Using syste Bacillus strains Oluwafemi ADEDIRE (University of Ibadan, Ibadan - NIGERIA)	emic endophytic	
18:30	F1.1-4 - Biological control of potato scab by Pseudomonas sp Lucas VITOR (Instituto Biológico, Campinas - BRAZIL)		
18:35	F1.2-1 - Identification of A. thaliana aly proteins as novel host interacting partners of virus (TUYV) cp and CP-RT proteinski Déborah KIERVEL (Institut de biologie moléculaire des plantes (IBMP), Strasbourg - FRANCE)	f the turnip yellows	
18:40	F1.2-2 - P13 protein of Citrus tristeza virus is a key regulator of stem-pitting symptom development in citrus macrophylla Maryam KHALILZADEH (University of Florida, Citrus Research and Education Center, Lake Alfred, FI - UNITED STATES)		
18:45	F1.3-1 - Homeostasis of an innate avr mimic protein mediated by SCFOSFBX388 co the growth and immunity of rice Zhao WENSHENG (China Agricultural University, Beijing - CHINA)	mplex balances	
18:50	F1.3-2 - Identification and functional validation of soft-rot susceptibility genes in the A stepping stone towards genome editing for soft rot resistance Lini VARGHESE (RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY, Thiruvananthapuram - INDIA)	e spice crop ginger -	
18:55	F1.3-3 - Zap1 and STE12: antagonistic roles in the virulence of the dutch elm disease novo-ulmi Thaïs CAMPOS DE OLIVEIRA (Université Laval, Québec - CANADA)	e fungus Ophiostoma	
19:00	F1.4-1 - Evaluation of winter wheat for Fusarium head blight resistance and deoxyn Ontario, Canada Ljiljana TAMBURIC-ILINCIC (University of Guelph, Ridgetown - CANADA)	ivalenol level in	
19:05	F2.1-1 - Plant-encoded artificial small RNAs direct gene silencing in Pseudomonas s as well as disease protection Antinéa RAVET (Institut de Biologie de l'Ecole Normale Supérieure (IBENS), Paris - FRANCE)	yringae	
19:10	F2.1-2 - Sa-independent mechanism in the tomato diageotropica (DGT) mutant enh resistance to Ralstonia solanacearum k60 Katherine RIVERA-ZULUAGA (Purdue University, West Lafayette - UNITED STATES)	ance root-mediated	
19:15	F2.1-3 - Genetic structure of Xanthomonas oryzae PV. Oryzae populations and dive effector repertoires in Burkina Faso Amadou DIALLO (Institut de Recherche pour le Développement, Montpellier - FRANCE)	rsity of their tal	





08:30 - 10:00	K3 - Invasive and Emerging Plant Diseases	L'Amphithéâtre
10:00 - 10:30	Coffee break and exhibition	Forum 4-5-6
	C2.1 - Molecular drivers of plant bacterial interactions	L' Amphithéâtre
	C2.2 - BIOLOGICAL CONTROL - Part 2: The importance of augmentative biocontrol and plant microbiome function for plant health	Gratte Ciel
	C2.3 - Population genomics of plant pathogens	Grand Salon Prestige
10:30 - 12:30	C2.4 - Viral modification of plants and vectors	Tête d'Or 1-2
10.00	C2.5 - POST-HARVEST - Part 1: Interactions of postharvest pathogens with the host and its microbiome	Salon Tête d'Or
	C2.6 - Understanding emergence of pathogens in commercial and public forest ecosystems	Bellecour 1
	C2.7 - Food Security for Sustainable Food Systems	Bellecour 2-3
12:30 - 14:00	Lunch and exhibition	Forum 4-5-6
	C3.1 - Molecular aspects of plant-fungal interactions Part 1: Effectors	L'Amphithéâtre
	C3.2 - Risk assessment for plant pathogens, a key tool for biosecurity under global changes	Gratte Ciel
	C3.3 - Post-harvest - Part 2: Sustainable managements of postharvest diseases: New technologies and approaches	Grand Salon Prestige
14:00 - 16:00	C3.4 - Resilience in soil health and disease suppression	Tête d'Or 1-2
	C3.5 - Tracing the long-distance pathways of aerial dissemination of plant pathogens	Salon Tête d'Or
	C3.6 - Bacteriophages: Ecological roles and potential applications against bacterial plant pathogens	Bellecour 1
	C3.7 - Germplasm seed movement and global plant health	Bellecour 2-3
16:00 - 16:30	Coffee break and exhibition	Forum 4-5-6
16:30 - 18:00	K4 - A Global Plant Health Assessment of the state of Plant Health and its Impact on Ecosystem Services	L'Amphithéâtre
40.00.00.00	Poster viewing session 1	Forum 4-5-6
18:00 - 20:00	F-22 - Flash Talk session	Agora
18:00 - 21:30	ISPP Councillors (by invitation)	Bellecour 1
18:15 - 19:45	R2.1 - Discussion and forum on cross-cutting issues generated by findings of the Global Plant Health Assessment	L'Amphithéâtre
E DE L'EUR DE L'ANNE	R2.2 - The pathobiome - New understanding of postharvest diseases	Bellecour 2-3

Detailed program

08:30 - 10:00

K3 - Invasive and Emerging Plant Diseases

L'Amphithéâtre

Chairpersons:



Nico HORN (EPPO - European and Mediterranean Plant Protection Organization, Paris - FRANCE)



Philippe REIGNAULT (ANSES - French agency for food environmental and occupational health & safety, Maisons-Alfort - FRANCE)



K3-1

Emerging diseases in the vegetable sector: Challenges and perspectives (with Giovanna Gilardi and Massimo Pugliese as co-authors)

Maria Lodovica GULLINO (University of Torino, Grugliasco - ITALY)



K3-2

Pandemic clonal lineages of the blast fungus
Hernán A. BURBANO (University College London, London - UNITED KINGDOM)



K3-3

Risk assessment and management of pests and diseases in the EU: Past and present Roel POTTING (Nederlandse Voedsel- en Warenautoriteit (NVWA), Wageningen - NETHERLANDS)

10:00 - 10:30

Coffee break and exhibition

Forum 4-5-6



10:30 - 12:30 CONCURRENT SESSIONS

C2.1 - Molecular drivers of plant bacterial interactions

L'Amphithéâtre

Chairpersons:

Jonathan JACOBS (The Ohio State University, Columbus - UNITED STATES) **Boris SZUREK** (IRD, Montpellier - FRANCE)

10:30 C2.1-1 - The making of a pathogen: How Xanthomonas adapts to plant environments Alice BOULANGER (University of Toulouse, INRAE, CNRS, UPS, Laboratory of Plants Microbe Environment Interactions (LIPME), UMR 441/2594, Toulouse - FRANCE)

10:50 C2.1-2 - Role of phloem membrane contact sites on Candidatus liberibacter asiaticus infection Chiara BERNARDINI (University of Florida, Lake Alfred - UNITED STATES)

11:05 C2.1-3 - For better or worse - The effect of interspecies microbial interactions on disease severity in plants

Yael HELMAN (The Robert H. Smith Faculty of Agriculture, Food and Environment The Hebrew University of Jerusalem, Rehovot - ISRAEL)

11:25 C2.1-4 - CRISPR/FNCAS12A-mediated efficient multiplex and iterative genome editing in bacterial plant pathogens without donor DNA templates Huanbin ZHOU (Chinese Academy of Agricultural Sciences, Beijing - CHINA)

11:40 C2.1-5 - How proteostasis shapes plant-bacteria interactions Suayb USTUN (Ruhr-Universität Bochum, Bochum - GERMANY)

12:00 C2.1-6 - CrispRi as a tool for the functional study of gene families in Xanthomonas Adriana J BERNAL (Laboratorio de interacciones moleculares de microorganismos agrícolas (LIMMA),

C2.2 - BIOLOGICAL CONTROL - Part 2: The importance of augmentative biocontrol and plant microbiome function for plant health

Gratte Ciel

Chairpersons:

Monica HOFTE (Ghent University, Gent - BELGIUM)

Universidad de los Andes, Bogotá - COLOMBIA)

Claire PRIGENT-COMBARET (University Claude Bernard Lyon 1, Villeurbanne - FRANCE)

10:30 C2.2-1 - Microbiome concepts for biocontrol of plant and human pathogens Gabriele BERG (TU Graz, Graz - AUSTRIA)

10:50 C2.2-2 - Thirty years of research on biological control of potato common scab using plant-beneficial bacteria: What we have learned, what's next...

Martin FILION (Agriculture and Agri-Food Canada, Saint-Jean-Sur-Richelieu - CANADA)

11:05 C2.2-3 - Bacterial bioprotectants in natural and augmentative biological control Monica HOFTE (Ghent University, Gent - BELGIUM)

11:25 C2.2-4 - From BCA discovery in cereals to biological control of Fusarium head blight David B COLLINGE (University of Copenhagen, Copenhagen - DENMARK)

11:40 C2.2-5 - Pseudomonas protegens: Bacterial Swiss army knives for future prospects in plant protection against pest insects

Jordan VACHERON (Department of Fundamental Microbiology, University of Lausanne, Lausanne - SWITZERLAND)

12:00 C2.2-6 - Mechanism by which selected bacillus strains that confer tolerance to Verticillium wilt in potato and stimulate growth

Min LI (Inner Mongolia Agricultural University, Huhhot - CHINA)

10:30 - 12:30 CONCURRENT SESSIONS (next)

C2.3 - Population genomics of plant pathogens

Grand Salon Prestige

Chairpersons:

Pierre GLADIEUX (INRAE Montpellier, Montpellier - FRANCE)

Honour MCCANN (Max Planck Research Group Plant Pathogen Evolution, Tuebingen - GERMANY)

10:30 C2.3-1 - A thousand-genome panel retraces the global spread and adaptation of a major fungal crop pathogen

Alice FEURTEY (ETHZ, Zurich - SWITZERLAND)

10:50 C2.3-2 - The Coevolutionary race between Hyaloperonospora arabidopsidis and Arabidopsis thaliana at a transcontinental scale

Kevin MURRAY (Max Planck Institut für Biologie Tübingen, Tübingen - GERMANY)

11:05 C2.3-3 - Origin and genome dynamics of Fusarium lineages causing global epidemics of Fusarium wilt of banana

Michael SEIDL (Theoretical Biology & Bioinformatics, Department of Biology, Utrecht University, Utrecht - NETHERLANDS)

11:25 C2.3-4 - Comparative genomics reveals key genetic polymorphisms associated with increased aggressiveness in Australian Ascochyta rabiei

Ido BAR (Griffith University, Nathan - AUSTRALIA)

11:40 C2.3-5 - Genome mining of Pseudomonas populations reveals a mechanism for strain-specific killing of Pseudomonas

Talia KARASOV (University of Utah, Salt Lake City - UNITED STATES)

12:00 C2.3-6 - Understanding the drivers of the pathogen population dynamics using strain-resolved metagenomics

Neha POTNIS (Auburn University, Auburn - UNITED STATES)

C2.4 - Viral modification of plants and vectors

Tête d'Or 1-2

Chairpersons:

John CARR (University of Cambridge, Cambridge - UNITED KINGDOM) Kristina GRUDEN (National Institute of Biology, Ljubljana - SLOVENIA)

10:30 **C2.4-1** - Modelling viral manipulation of plant-vector interactions

Nik CUNNIFFE (University of Cambridge, Cambridge - UNITED KINGDOM)

10:50 C2.4-2 - Whitefly-borne cassava viruses and the estimation of viral retention period from access period experiments

Ruairí DONNELLY (Epidemiology and Modelling Group, Cambridge - UNITED KINGDOM)

11:05 **C2.4-3** - The acrostyle, a cuticular micro-territory within aphid mouthparts involved in virus-vector and plant-insect interactions

Marilyne UZEST (INRAE, Montpellier - FRANCE)

11:25 **C2.4-4** - Multi-Infection modifies aphid transmission and plant tissue localization of sugar beet infecting viruses

Souheyla KHECHMAR (Institut National de Recherche pour l'Agriculture, l'alimentation et l'Environnement (INRAE) Colmar France, Colmar - FRANCE)

11:40 C2.4-5 - Dynamics of potato virus y-plant cell interaction network

Anna COLL (National Institute of Biology, Ljubljana - SLOVENIA)

12:00 C2.4-6 - An aphid-borne polerovirus switches its vector to the whitefly bemisia tabaci:

Agronomic importance, epidemiology and virus-vector molecular relationships

Murad GHANIM (Volcani Institute, Rishon Lezion - ISRAEL)

Detailed program



10:30 - 12:30 CONCURRENT SESSIONS (next)

C2.5 - POST-HARVEST - Part 1: Interactions of postharvest pathogens with the host and its microbiome

Salon Tête d'Or

Chairpersons:

Samir DROBY (ARO, The Volcani Center, Rishon Lezion - ISRAEL)

Davide SPADARO (University of Torino, Grugliasco - ITALY)

10:30 C2.5-1 - Molecular mechanism of fruit cell membrane resistance response to postharvest fungal pathogens

Shiping TIAN (Institute of Botany, Chinese Academy of Sciences, Beijing - CHINA)

10:50 C2.5-2 - Insights into the effects of agronomical management practices in Aspergillus incidence and carposphere's microbial communities of grapevine (CV. SYRAH)

Stefanos Gabriel TESTEMPASIS (Faculty of Agriculture, Laboratory of Plant Pathology, Aristotle University of Thessaloniki, Thessaloniki - GREECE)

11:05 C2.5-3 - The assembly and dynamics of the fruit microbiome: What can it tell us about biological control of postharvest diseases

Samir DROBY (ARO, The Volcani Center, Rishon Lezion - ISRAEL)

11:25 C2.5-4 - Identification of putative necrotrophic effectors of Monilinia SPP. Using a modified TRV-Expression vector as a high-throughput infiltration methodology

Anselmo LOPEZ SANCHEZ-ORTIZ (Institute of Agrifood Research and Technology (IRTA), Lleida - SPAIN)

- 11:40 C2.5-5 Microbiomes: An Important tool to elucidate the epidemiology of postharvest pathogens Davide SPADARO (University of Torino, Grugliasco ITALY)
- 12:00 C2.5-6 Ethylene sensing via GPCRs and Mapk pathway in Colletotrichum gloeosporioides is vital for host infection and represents potential targets for disease management Pinkuan ZHU (East China Normal University, Shanghai CHINA)

C2.6 - Understanding emergence of pathogens in commercial and public forest ecosystems

Bellecour 1

Chairpersons:

Olga KOZHAR (Colorado State University, Fort Collins - UNITED STATES)

Aaron ONUFRAK (University of Tennessee, Knoxville - UNITED STATES)

Geoffrey M. WILLIAMS (USDA Forest Service, International Programs, Lansing - UNITED STATES)

10:30 C2.6-1 - Pathogen emergence in changing ecosystems: Case study with Phellinus noxius in eastern Asia, Australia, and the Pacific Islands

Olga KOZHAR (Colorado State University, Fort Collins - UNITED STATES)

10:50 C2.6-2 - Can alien forest pathogens replace native ones? The case of Heterobasidion irregulare and H. Annosum in Europe

Paolo GONTHIER (University of Torino, Grugliasco - ITALY)

11:05 C2.6-3 - Botryosphaeriaceae associated with baobab (Adansonia Digitata L.) and marula (Sclerocarya Birrea A. Rich.) In agroforestry systems in Kenya Sheillah CHEROTICH (World Agroforestry (ICRAF), Nairobi - KENYA)

11:25 C2.6-4 - Comparative genomics to decipher adaptation of the fungal pathogen AustroPuccinia PSIDII to host species in the myrtaceae family

Thaís BOUFLEUR (Department of Plant Pathology and Nematology, Luiz de Queiroz College of Agriculture, University of São Paulo, Piracicaba - BRAZIL)

11:40 C2.6-5 - Phytomonas sP. causing sudden wilt disease on yellow bleeding heart (Dactylicapnos Scandens) (D. Don) in India

Raja PERIASAMY (COLLEGE OF HORTICULTURE AND FORESTRY, PASIGHAT, Pasighat - INDIA)

12:00 C2.6-6 - Emergence of Cryptostroma corticale in Europe Elodie MULLER (INRAE, UMR IAM, Champenoux - France)

Detailed program

10:30 - 12:30 CONCURRENT SESSIONS (next)

C2.7 - Food Security for Sustainable Food Systems

Bellecour 2-3

Chairpersons:

Lise KORSTEN (University of Pretoria, Pretoria - SOUTH AFRICA)
Serge SAVARY (GBPUAT-India and UC Davis-USA, Castanet-Tolosan - FRANCE)

10:30 C2.7-1 - Connected: A Community network for African Vector-Borne Plant Viruses Nina OCKENDON-POWELL (University of Bristol, Bristol - UNITED KINGDOM)

10:50 C2.7-2 - A quantitative and qualitative analysis of rhizosphere microbial populations of maize and soybean as influenced by soil and plant genotype

Lisa ROTHMANN (University of the Free State, Bloemfontein - SOUTH AFRICA)

11:05 C2.7-3 - Understanding the benefits of breeding major food crops for durable resistance:
A conceptual review and meta-analysis of empirical evidence
Susan SPRAGUE (CSIRO, Canberra - AUSTRALIA)

11:25 **C2.7-4** - Assessment of CV. Shangi-Like potato lines with potato cyst nematode resistance in the field and with consumers

Mellen .F. Nyabonyi NYABUTO (International institute of tropical Agriculture, Nairobi - KENYA)

11:40 C2.7-5 - Pearl Millet-Future food for Asia and Africa: The importance, biotic constraints and their management
Chandra NAYAKA (UNIVERSITY OF MYSORE, Mysore - INDIA)

12:00 C2.7-6 - Chickpea seed endophytic (Bacillus Subtilis) as effective plant growth promoting microbes to improve chickpea productivity and nutritional quality under sustainable agriculture

Arpan MUKHERJEE (Banaras Hindu University, Varanasi - INDIA)

12:30 - 14:00 Lunch and exhibition

Forum 4-5-6

Detailed program



14:00 - 16:00 CONCURRENT SESSIONS

C3.1 - Molecular aspects of plant-fungal interactions Part 1: Effectors

L'Amphithéâtre

Chairpersons:

Marc-Henri LEBRUN (INRAE, Thiverval-Grignon - FRANCE)

Ely OLIVEIRA-GARCIA (Louisiana State University Agricultural Center, Baton Rouge - UNITED STATES)

14:00 C3.1-1 - Towards understanding how Magnaporthe oryzae co-opts plant endocytosis for translocation of cytoplasmic effectors

Ely OLIVEIRA-GARCIA (Louisiana State University Agricultural Center, Baton Rouge - UNITED STATES)

14:20 C3.1-2 - Evolution of structurally conserved effector families in ascomycete fungi Sylvain RAFFAELE (INRAE, Castanet Tolosan - FRANCE)

14:35 C3.1-3 - Entering via the front door: Cytoplasmic effectors taken into host cells via endocytosis Paul BIRCH (University of Dundee, Dundee - UNITED KINGDOM)

14:55 **C3.1-4** - Parastagonospora nodorum uses diverse effector functions to facilitate the colonization of wheat

Tim FRIESEN (USDA-ARS Edward T. Schafer Agricultural Research Center, Fargo - UNITED STATES)

15:10 C3.1-5 - Lessons to learn from a gall-inducing fungus Amin DJAMEI (University of Bonn, Bonn - GERMANY)

15:30 C3.1-6 - Plant pathogens manipulate host microbiota to promote disease development Bart THOMMA (University of Cologne, Cologne - GERMANY)

C3.2 - Risk assessment for plant pathogens, a key tool for biosecurity under global changes

Gratte Ciel

Chairpersons:

Nico HORN (EPPO, Paris - FRANCE)

Giuseppe STANCANELLI (European Food Safety Authority (EFSA), Parma - ITALY)

- 14:00 C3.2-1 An overview of the ippc global framework on pest risk analysis international standards Adriana MOREIRA (FAO, Roma ITALY)
- 14:20 C3.2-2 Proactive global biosecurity strategies: Priorities based on crop landscapes, trade networks, and the ecological niches of 930 pathogens

Aaron Isai PLEX SULA (Plant Pathology Department, University of Florida, Gainesville - UNITED STATES)

14:35 C3.2-3 - The approach of the European and Mediterranean plant protection organization (EPPO): From early warning to risk management

Muriel SUFFERT (EPPO, Paris - FRANCE)

14:55 C3.2-4 - Prioritization of invasive alien pests with the potential to threaten agriculture, biodiversity, and forestry in Africa through horizon scanning

Joseph MULEMA (CABI, Nairobi - KENYA)

15:10 C3.2-5 - Commodity risk assessment as a tool to identify new plant pests: Challenges, future perspectives and links to horizon scanning and pest risk assessment Agata KACZMAREK (EFSA, Parma - ITALY)

15:30 C3.2-6 - Interdisciplinary analysis and modelling of plant health threats to Scotland Daniel BEBBER (University of Exeter, Exeter - UNITED KINGDOM)

14:00 - 16:00

CONCURRENT SESSIONS (next)

C3.3 - POST-HARVEST - Part 2: Sustainable managements of postharvest diseases: New technologies and approaches

Grand Salon Prestige

Chairpersons:

James ADASKAVEG (University of California, Riverside, Riverside - UNITED STATES)
Neus TEIXIDO (IRTA, Barcelona - SPAIN)

14:00 C3.3-1 - Minicell-Encapsulated DSRNA (ME-DSRNA): A promising and scalable platform for targeted biocontrol of phytopathogenic fungi

Sherif SHERIF (Virginia Tech, Winchester - UNITED STATES)

14:20 C3.3-2 - Efficacy of antagonistic yeasts in the control of brown rot of nectarines and effect on fruit microbiome

Giulia REMOLIF (Department of Agricultural, Forest and Food Sciences (DISAFA), University of Turin, Grugliasco (To) - ITALY)

- 14:35 C3.3-3 Postharvest decay management of citrus in the United States with cyproconazole and natamycin, new highly effective conventional and organic fungicides, respectively James ADASKAVEG (University of California, Riverside, Riverside UNITED STATES)
- 14:55 C3.3-4 Reducing Brown rot and maintaining plum quality during cold storage with composite edible coatings containing avocado seed extract

Ricardo LIMA DE SOUZA (Laboratori de Patologia, Centre de Tecnologia Postcollita (CTP), Institut Valencià d'Investigacions Agràries (IVIA), Montcada - SPAIN)

- 15:10 C3.3-5 Management of brown rot infections on stone fruit using epidemiological knowledge Rosario TORRES (IRTA, Lleida SPAIN)
- 15:30 C3.3-6 Epigenetic control of long-lasting defence priming for the protection of fruit against postharvest diseases

Estrella LUNA (University of Birmingham, Birmingham - UNITED KINGDOM)

C3.4 - Resilience in soil health and disease suppression

Tête d'Or 1-2

Chairperson: Danny COYNE (Nairobi - KENYA)

14:00 C3.4-1 - An international collaboration for the development of a biological nematicide for use in Sub-Saharan Africa

Jared JENSEN (AgBiome, Research Triangle Park - UNITED STATES)

14:20 C3.4-2 - The changes of rhizosphere microbiome and transcriptome in arabidopsis grown under meso-plastic contaminated soil

Dohui LEE (Department of Applied Science, Dong-A University, Busan - REPUBLIC OF KOREA)

14:35 C3.4-3 - A culturomics approach identifies rhizospheric bacterial strains involved in legumes protection against the root rot agent aphanomyces euteiches

Mohamed ZOUAOUI (Université Toulouse III - Paul Sabatier, Toulouse - FRANCE)

14:55 **C3.4-4** - Shift of bacterial communities is involved in the stimulation of Plasmodiophora brassicae resting spore germination

Yao WANG (Georg August University of Göttingen, Göttingen - GERMANY)

- 15:10 C3.4-5 The Integration level of microbiome studies determines potential detection of glyphosate-associated dysbioses on/in plants and animals and subsequent disease development Ariena VAN BRUGGEN (Department of Plant Pathology, University of Florida, Gainesville UNITED STATES)
- 15:30 C3.4-6 Exploring sustainable soilborne disease management solutions for specialty cut flower production Francesca HAND (The Ohio State University, Columbus UNITED STATES)

Detailed program



14:00 - 16:00 CONCURRENT SESSIONS (next)

C3.5 - Tracing the long-distance pathways of aerial dissemination of plant pathogens

Salon Tête d'Or

Chairperson: Samuel SOUBEYRAND (INRAE, Avignon - FRANCE)

14:00 C3.5-1 - Establishing a canadian biovigilance platform through nationwide aeronet, High Throughput Sequencing, and trajectory simulations

Wen CHEN (Ottawa Research and Development Centre, Agriculture and Agri-Food Canada, Ottawa - CANADA)

14:20 C3.5-2 - Surveillance of dispersal and pathogenicity variation of corn rusts Junmin LIANG (Institute of Microbiology, Chinese Academy of Sciences, Beijing - CHINA)

14:35 C3.5-3 - A metacommunity model for entangled airborne pathosystems: Application to brown rot spread in peach orchards
Andrea RADICI (INRAE, Avignon - FRANCE)

14:55 C3.5-4 - Genomic analysis, trajectory tracking, and field investigation reveal origins and long-distance migration routes of wheat stripe rust in China Xiaoping HU (Northwest A&F University, Yangling - CHINA)

15:10 C3.5-5 - Assessing long-distance, transoceanic and intercontinental atmospheric transport of soilborne plant pathogens entrained with aerosolized agricultural dust Rocio CALDERON (Plant Pathology and Plant-Microbe Biology Section, School of Integrative Plant Sciences, Cornell AgriTech, Cornell University, Geneva Ny - UNITED STATES)

15:30 C3.5-6 - Use of spatio-temporal aerobiological data of spore abundance to understand the large-scale epidemiology of the ash dieback disease

Mireia GOMEZ GALLEGO (INRAE, Champenoux - FRANCE)

C3.6 - Bacteriophages: Ecological roles and potential applications against bacterial plant pathogens

Bellecour 1

Chairpersons:

Clara TORRES-BARCELO (INRAE, Montfavet - FRANCE)

Jordan VACHERON (Department of Fundamental Microbiology, University of Lausanne, Lausanne - SWITZERLAND)

- 14:00 C3.6-1 Ecology and evolution of phage-bacteria interactions drive bacterial wilt disease dynamics Ville-Petri FRIMAN (University of Helsinki, Helsinki FINLAND)
- 14:20 C3.6-2 Biogeographic distribution impacts Xanthomonas arboricola PV. Pruni susceptibility to bacteriophage

Katherine DAMICO-WILLMAN (North Carolina State University, Raleigh - UNITED STATES)

14:35 C3.6-3 - Coevolutionary analysis of bacteria-phage interactions identifies potential receptor targets for phage infection

Mojgan RABIEY (University of Birmingham, Birmingham - UNITED KINGDOM)

- 14:55 C3.6-4 Do phages have an impact on the diversity of Pseudomonas syringae on apricot trees? Chloé FELTIN (PV-INRAE, Avignon FRANCE)
- 15:10 C3.6-5 Keys and cost of the toxic relationship between novel phages and Xanthomonas hortorum PV. vitians: Molecular determinants and trade-off in planta

Anaelle BAUD (Université Lyon, Université Claude Bernard Lyon 1, CNRS, INRAE, VetAgro Sup, UMR Ecologie Microbienne, Villeurbanne - FRANCE)

15:30 C3.6-6 - Evading infection: Temperature affects interaction between Dickeya fangzhongdai and its bacteriophage

Špela ALIC (National Institute of Biology, Ljubljana - SLOVENIA)

Detailed program

14:00 - 16:00 CONCURRENT SESSIONS (next)

C3.7 - Germplasm seed movement and global plant health

Bellecour 2-3

Chairpersons:

Lava KUMAR (IITA Headquarters, Ibadan - NIGERIA)

Safaa KUMARI (International Center for Agricultural Research in the Dry Areas (ICARDA), Terbol Station, Zahle - LEBANON)

14:00 C3.7-1 - Regulatory framework for seed health

Yilmaz BALCI (United States Department of Agriculture (USDA), Riverdale, Maryland - UNITED STATES)

14:20 C3.7-2 - CGIAR germplasm health units apply a systems approach to germplasm seed health protection for conservation and safe international distribution

Lava Kumar PULLIKANTI (International Institute of Tropical Agriculture (IITA), Ibadan - NIGERIA)

14:35 C3.7-3 - Impact Network Analysis (INA) for national mitigation strategies for emerging seed-borne pathogens

Karen GARRETT (University of Florida, Gainesville - UNITED STATES)

14:55 C3.7-4 - Phytosanitary testing and sanitation for safe trans-national movement of clonally propagated crops: History and future

Giovanna MULLER (International Potato Center, Lima - PERU)

15:10 C3.7-5 - Public-Private partnership model to enhance safe international seed trade in the global south:

A case study in south and southeast Asia

Ravi KHETARPAL (Asia- Pacific Association of Agricultural Research Institutions (APAARI), Bangkok - THAILAND)

15:30 C3.7-6 - Quarantine of germplasm for plant biosecurity against transboundary viruses: Importance of diagnostics and phytosanitary regulations

Celia Chalam VASIMALLA (ICAR-National Bureau of Plant Genetic Resources, Delhi - INDIA)

16:00 - 16:30 Coffee break and exhibition

Forum 4-5-6

Detailed program



16:30 - 18:00

K4 - A Global Plant Health Assessment of the state of Plant Health and its Impact on Ecosystem Services

L'Amphithéâtre

Chairpersons:



Pascal FREY (INRAE, national research institute for Agriculture, Food and the Environment, Champenoux - FRANCE)



Neil MCROBERTS (UC Davis, Davis - UNITED STATES)



K4-1

State and evolution of plant health globally across Plant Systems and Ecoregions Federica BOVE (Università Cattolica del Sacro Cuore, Milan - ITALY)



K4-2

Synthesis and implications of the findings from the GPHA Sonam SAH (B Pant University of Agriculture & Technology, Pantnagar - INDIA)



K4-3

Impacts of plant health on services rendered by Plant Systems in Ecoregions Manjari SINGH (GB Pant University of Agriculture & Technology, Pantnagar - INDIA)

18:00 - 21:30

ISPP Councillors (by invitation)

Bellecour 1

18:15 - 19:45

ROUND TABLES

R2.1 - Discussion and forum on cross-cutting issues generated
by findings of the Global Plant Health Assessment

L'Amphithéâtre

R2.2 - The pathobiome - New understanding of postharvest diseases

Bellecour 2-3

40.00	20.00	
18:00	- 20:00	J

POSTERS

	Poster viewing session 1	Forum 4-5-6
	F-22 - Flash Talk session	Agora
18:15	F2.3-1 - Mining historic herbaria to track Phytophthora infestans effector and solan and evolution over time Jean RISTAINO (NC State University, Raleigh - UNITED STATES)	um r gene diversity
18:20	F2.3-2 - Herbaria in natural history collections illuminate the evolutionary history a of citrus bacterial canker Lionel GAGNEVIN (CIRAD, Montpellier - FRANCE)	nd emergence
18:25	F2.4-1 - Plant virus infection modifies volatile cues involved in multitrophic aphid-p interactions Alberto FERERES (CSIC, Madrid - SPAIN)	lant-parasitoid
18:30	F3.1-1 - Novel nuclear localization sequence of mohtr1, a nuclear effector of the rice blast fungus, is crucial for fungal pathogenicity and plant immune-response by transcriptional reprogramming You-Jin LIM (Research Institute of Agriculture and Life Sciences, Seoul National University, Seoul - REPUBLIC OF KOREA)	
18:35	F3.1-2 - Allele-specific recognition of the max effector avrrvi6 by rvi6 resistance pro in the apple-Venturia inaequalis pathosystem Maël BAUDIN (INRAE, Beaucouzé - FRANCE)	otein
18:40	F3.2-1 - Mapping global risk of Fusarium wilt in a changing climate with remote sensing and aerosol transport modeling Rocio CALDERON (Plant Pathology and Plant-Microbe Biology Section, School of Integrative Plant Sciences, Cornell AgriTech, Cornell University, Geneva Ny - UNITED STATES)	
18:45	F3.4-1 - Phytopathogenic fungi modify the bacterial diversity of the wheat rhizosphere grown in conventional and organic agricultural soils under ambient and future climate scenarios Adriana GIONGO (Julius Kühn Institute, Braunschweig - GERMANY)	
18:50	F3.7-1 - Seed pathway for pest dissemination: The ista reference pest list, a bibliogramon-vegetable plant species. Nicolas DENANCE (GEVES, Beaucouzé - FRANCE)	raphic resource in
18:55	F4.1-1 - Combating onion bacterial diseases with pathogenomics tools and enhance strategies Lindsey DU TOIT (Washington State University, Mount Vernon - UNITED STATES)	ed management
19:00	F4.1-2 - Ten year of PSTS10: A perspective on recent evolutions of French populations of Puccinia striiformis F.SP. Tritici (cause of wheat yellow rust) Tiphaine VIDAL (Université Paris-Saclay, INRAE, UR1290 BIOGER, Palaiseau - FRANCE)	
19:05	F4.2-1 - Alternaria alternata and strains of the a. Arborescens species complex are responsible of an upsurge of the apple leaf blotch disease in France Jaime AGUAYO (ANSES, Laboratoire de la Santé des Végétaux-LSV, Unité de Mycologie, Malzéville - FRANCE)	
19:10	F4.2-2 - Application of convolutional neural network model for detection of chili an Hae In KIM (Jeonbuk National University, Jeonju - REPUBLIC OF KOREA)	
19:15	F4.2-3 - Comparison of molecular diagnostic tools for fungal pathogen detection in Rumiana RAY (University of Nottingham, Sutton Bonington - UNITED KINGDOM)	ı soil
19:20	F4.3-1 - Adaptive genome evolution of the cereal powdery mildew fungi Stephan KUSCH (RWTH Aachen University, Aachen - GERMANY)	
19:25	F4.4-1 - Striving to stay clean: Detection of sweetpotato viruses on multiple seed general Christie ALMEYDA (North Carolina State University, Raleigh - UNITED STATES)	ations in North Carolina





08:30 - 10:00	K5 - Current Topics in Molecular Plant-Microbe Interactions	L'Amphithéâtre
10:00 - 10:30	Coffee break and exhibition	Forum 4-5-6
	C4.1 - Progress in disease control - Part 1	L'Amphithéâtre
	C4.2 - Development of Molecular Diagnostic Tools for Plant Pathogens in a Globalizing World	Gratte Ciel
	C4.3 - Genome evolution in filamentous plant pathogens	Grand Salon Prestige
10:30 - 12:30	C4.4 - The ecology plant viruses and epidemiology of the disease they cause: How fundamental ecological research in natural systems can inform and advance plant pathology	Tête d'Or 1-2
	C4.5 - Advances in the use of exotic sentinel trees and novel monitoring programs to detect incipient threats posed by forest pathogens	Salon Tête d'Or
	C4.6 - Post-Harvest - Part 3: Eco-epidemiological perspectives generating new concepts on postharvest diseases and mycotoxins	Bellecour 1
	C4.7 - Impact of scientific advances in plant health	Bellecour 2-3
12:30 - 14:00	Lunch and exhibition	Forum 4-5-6
14:00 - 15:30	K6 - New Developments in Plant Disease Management	L'Amphithéâtre
15:30 - 16:00	ICPP 2023 Best Posters Awards Ceremony	L'Amphithéâtre
16:00 - 16:30	Coffee break and exhibition	Forum 4-5-6
16:00 - 18:30	Poster viewing session 2	Forum 4-5-6
16:00 - 18:30	F-23 - Flash Talk session	Agora
	R3.1 - The impact of discoveries in plant health	L'Amphithéâtre
16:30 - 18:00	R3.2 - Sharing and exploiting HTS data	Bellecour 2-3
	R3.3 - Germplasm Seed Movement and Global Plant Health	Salon Tête d'Or
16:30 - 18:00	ISPP Councillors (by invitation)	Bellecour 1
20:00 - 00:00	Conference dinner in Imagine Circus (compulsary registration in advance)	Imagine Circus
THE RESIDENCE OF A REAL PROPERTY OF THE REAL PROPER		T TOUL

WEDNESDAY, AUGUST 23

Detailed program

08:30 - 10:00

K5 - Current Topics in Molecular Plant-Microbe Interactions

L'Amphithéâtre

Chairpersons:



Jan E. LEACH (Colorado State University, Fort Collins - UNITED STATES)



Sophien KAMOUN (The Sainsbury Laboratory, Norwich - UNITED KINGDOM)



Regulation of bacterial growth and behavior by plant immunity Kenichi TSUDA (Huazhong Agricultural University, Wuhan - CHINA)



K5-2

Factors that influence the distribution of vector-borne parasites Saskia HOGENHOUT (John Innes centre, Norwich - UNITED KINGDOM)



Impact of climate on plant-pathogen/microbiome interactions Sheng Yang HE (Duke University, Durham - UNITED STATES)

10:00 - 10:30

Coffee break and exhibition

Forum 4-5-6

WEDNESDAY, AUGUST 23

Detailed program



10:30 - 12:30 CONCURRENT SESSIONS

C4.1 - Progress in disease control - Part 1

L'Amphithéâtre

Chairpersons:

Helge SIEROTZKI (Syngenta Group, Stein - SWITZERLAND) **Anne Sophie WALKER** (INRAE, Paris - FRANCE)

10:30 **C4.1-1** - Wine diseases and integration of biosolutions in control strategies

Eric CHANTELOT (FRENCH VINE INSTITUTE (IFV), Rodilhan - FRANCE)

10:50 C4.1-2 - Optimizing field based control of Phytophthora capsici: Use of multiplex droplet digital PCR to quantify biological and pathogen populations

Oscar VILLANUEVA (Agriculture and Agri-Food Canada Research, Vineland-Stn - CANADA)

11:05 C4.1-3 - Development of Myosin Inhibitor to control rice blast and false smut Feng ZHANG (Nanjing Agricultural University, Nanjing - CHINA)

11:25 C4.1-4 - Fungicide sensitivity of Colletotrichum species causing bitter rot on apple in the mid-atlantic United States

Kari PETER (Pennsylvania State University, Biglerville - UNITED STATES)

- 11:40 C4.1-5 Can oligonucleotides become an alternative to conventional fungicides for plant disease control?

 Dolores FERNANDEZ-ORTUNO (Departamento de Microbiología, Facultad de Ciencias, Universidad de Málaga, Malaga SPAIN)
- 12:00 C4.1-6 Identification and utilization of antifungal and defense-stimulating molecules for asian soybean rust control

Caspar LANGENBACH (RWTH Aachen University, Plant Physiology Department (IPP), Aachen - GERMANY)

C4.2 - Development of Molecular Diagnostic Tools for Plant Pathogens in a Globalizing World

Gratte Ciel

Chairpersons:

Peter BONANTS (Wageningen UR, Wageningen - NETHERLANDS)

James STACK (Kansas State University, Manhattan - UNITED STATES)

10:30 C4.2-1 - Next generation sequencing and its impact on plant health risk assessment and Phytosanitary Measures

Giuseppe STANCANELLI (European Food Safety Authority (EFSA), Parma - ITALY)

10:50 C4.2-2 - Using marple diagnostics to assess the genetic diversity of Puccinia striiformis F. SP. tritici (PST) in the Himalayan foothills of Nepal

Ram Bahadur KHADKA (Nepal Agricultural Research Council, Lalitpur - NEPAL)

11:05 C4.2-3 - A pangenome approach to study diversity and functional markers and its applications to enhance diagnostics

Theo VANDERLEE (Wageningen Plant Research, Wageningen - NETHERLANDS)

11:25 **C4.2-4** - Improving and developing diagnostics for high throughput identification of viruses, with a focus on begomoviurses

Fiona FILARDO (QLD Department of Agriculture and Fisheries, Brisbane - AUSTRALIA)

- 11:40 C4.2-5 Advancement in plant pathogen diagnostics in High Throughput Sequencing era Mohammad ARIF (University of Hawaii at Manoa, Honolulu UNITED STATES)
- 12:00 C4.2-6 CrispR-Cas detection coupled with isothermal amplification of bursaphelenchus xylophilus Jin WU (Beijing Foresty University, Beijing CHINA)

10:30 - 12:30 CONCURRENT SESSIONS (next)

C4.3 - Genome evolution in filamentous plant pathogens

Grand Salon Prestige

Chairpersons:

Thorsten LANGNER (The Sainsbury Laboratory, Norwich - UNITED KINGDOM) Eva STUKENBROCK (Christian-Albrechts University of Kiel, Kiel - GERMANY)

- 10:30 **C4.3-1 Waltz with plants: Genome evolution in filamentous pathogens Sophien KAMOUN** (The Sainsbury Laboratory, Norwich UNITED KINGDOM)
- 10:50 C4.3-2 A broad genomic survey of macrophomina SPP. Reveals host-genotype associations and evidence of on-going recombination Kayla K PENNERMAN (United States Department of Agriculture, Agricultural Research Service, Salinas - UNITED STATES)
- 11:05 C4.3-3 Adaptative evolution in virulence effectors of the rice blast fungus pyricularia orizae Pierre GLADIEUX (INRAE, Montpellier FRANCE)
- 11:25 C4.3-4 Pathogenicity of the conifer wilt pathogen, Leptographium wageneri: Genomic insights Tuan DUONG (University of Pretoria SOUTH AFRICA)
- 11:40 C4.3-5 Exchange of intact nuclei plays a major role in the evolution of dikaryotic rust fungi Jana SPERSCHNEIDER (CSIRO, Canberra AUSTRALIA)
- 12:00 C4.3-6 Transposons drive environmental adaptation in a clonally evolving fungal pathogen Antonio DI PIETRO (Universidad de Cordoba, Cordoba SPAIN)

C4.4 - The ecology plant viruses and epidemiology of the disease they cause: How fundamental ecological research in natural systems can inform and advance plant pathology

Tête d'Or 1-2

Chairpersons:

Carolyn M. MALMSTROM (Michigan State University, Department of Plant Biology, Michigan - UNITED STATES)

Mark Paul RIVAREZ (CARAGA STATE UNIVERSITY, Butuan city - PHILIPPINES)

- 10:30 C4.4-1 From boots on the ground to nucleotides in the sequencer: Advances in the study of plant virus ecology using plant virus metagenomics

 Philippe ROUMAGNAC (Cirad, Montpellier FRANCE)
- 10:50 **C4.4-2 Alteration of plant species mixtures by virus infection Roger JONES** (University of Western Australia, Crawley AUSTRALIA)
- 11:05 C4.4-3 Virome release of an invasive exotic plant species in southern France Oumaima MOUBSET (PHIM CIRAD, Montpellier FRANCE)
- 11:25 C4.4-4 Occurrence and prevalence of Schlumbergera virus X in dragon fruit crops in Ecuador Lisbeth ESPINOZA-LOZANO (Escuela Superior Politécnica del Litoral ESPOL, Guayaquil ECUADOR)
- 11:40 C4.4-5 Factors influencing epidemiology and spread of whitefly-transmitted cucurbit viruses in the United States vary among production regions
 William WINTERMANTEL (USDA-ARS, Salinas UNITED STATES)
- 12:00 C4.4-6 Epidemiology of yam viruses in Guadeloupe: Role of cropping practices and seed-tuber supply Sébastien GUYADER (INRAE, UR ASTRO, Petit-Bourg GUADELOUPE)

WEDNESDAY, AUGUST 23

Detailed program



10:30 - 12:30 CONCURRENT SESSIONS (next)

C4.5 - Advances in the use of exotic sentinel trees and novel monitoring programs to detect incipient threats posed by forest pathogens

Salon Tête d'Or

Chairpersons:

Sarah GREEN (Forest Research, Roslin - UNITED KINGDOM)

Caterina VILLARI (University of Georgia, Athens - UNITED STATES)

Geoffrey M. WILLIAMS (USDA Forest Service, International Programs, Lansing - UNITED STATES)

- 10:30 C4.5-1 Lessons learned from a reciprocal international sentinel planting project Pierluigi BONELLO (The Ohio State University, Columbus, Oh UNITED STATES)
- 10:50 C4.5-2 Satellite based monitoring of invasive pests and alien plant bacterias: The Xylella fastidiosa and Toumeyella parvicornis case studies

 Rosa LASAPONARA (CNR. Potenza ITALY)
- 11:05 C4.5-3 Four years of the European Union Reference Laboratory (EURL) for fungi and oomycetes Pedro Pablo PARRA GIRALDO (ANSES Plant Health Laboratory, EURL for fungi and oomycetes, Mycology Unit, Malzéville FRANCE)
- 11:25 C4.5-4 Prescreening and monitoring of forest plant pathogens using sequencing technologies in regulatory research
 Guillaume J. BILODEAU (Canadian Food Inspection Agency, Ottawa Laboratory Fallowfield, Ottawa plant laboratory,
 - Ottawa, On CANADA)
- 11:40 C4.5-5 Dormant woody plants: A pathway of introduction into Europe of potentially invasive pests? Simone PROSPERO (WSL, Birmensdorf SWITZERLAND)
- 12:00 C4.5-6 Observatree: 10 years of early warning citizen science Rebecca GOSLING (Woodland Trust, Grantham UNITED KINGDOM)

C4.6 - Post-Harvest - Part 3: Eco-epidemiological perspectives generating new concepts on postharvest diseases and mycotoxins

Bellecour 1

Chairpersons:

Wayne JURICK II (USDA, Beltsvile - UNITED STATES)
Achala KC (Oregon State University, Central Point - UNITED STATES)

- 10:30 C4.6-1 One small molecule with big biological impacts: New roles for patulin in host-microbeplant interactions during blue mold decay of apple fruit Wayne JURICK II (USDA, Beltsvile UNITED STATES)
- 10:50 C4.6-2 Preharvest factors associated with gray mold development in European pears Achala KC (Oregon State University, Central Point UNITED STATES)
- 11:05 C4.6-3 Epidemiology of grain contamination with zearalenone and deoxynivalenol Pierce PAUL (The Ohio State University, Wooster UNITED STATES)
- 11:25 C4.6-4 Inoculum dynamics and environmental factors associated with the preharvest contamination of citrus fruits by Geotrichum citri-aurantii
- Elena PEREZ (Instituto Nacional de Investigación Agropecuaria, Montevideo URUGUAY)
- 11:40 C4.6-5 Associated trade barriers while managing postharvest diseases in sweetpotato Lina QUESADA (North Carolina State University, Raleigh UNITED STATES)
- 12:00 C4.6-6 Re-Emerging Disease: The sour rot irruption on peach production Erick ZUÑIGA (IRTA, Lleida SPAIN)

WEDNESDAY, AUGUST 23

Detailed program

10:30 - 12:30 CONCURRENT SESSIONS (next)

C4.7 - Impact of scientific advances in plant health

Bellecour 2-3

Chairpersons:

Claire BAKER (Toothpick Company Ltd. (Toothpick Project), Bozeman - UNITED STATES)
Odile CARISSE (Agriculture and Agri-Food Canada, Saint-Jean-sur-Richelieu - CANADA)

10:30 C4.7-1 - The Toothpick project: The impacts of a commercialized bioherbicide innovation Claire BAKER (Toothpick Company Ltd. (Toothpick Project), Bozeman - UNITED STATES)

10:50 C4.7-2 - The plant disease pyramid: Plant disease and epidemic management requires a holistic approach

Bernard SLIPPERS (Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria - SOUTH AFRICA)

11:05 C4.7-3 - Global challenges facing plant pathology: Impact of scientific advances
Michael JEGER (Imperial College London, Ascot - UNITED KINGDOM)

11:25 C4.7-4 - Systematic maps for identification of scientific evidence for disease control methods in oats, oilseed rape and potato

Anna BERLIN (Swedish univeristy of agricultural sciences, Uppsala - SWEDEN)

11:40 C4.7-5 - Data-driven decision making to reduce global crop losses Bryony TAYLOR (CABI, Wallingford - UNITED KINGDOM)

12:00 C4.7-6 - Novel plant growth promoting rhizobacterias (PGPRs) as potential indicator of sustainable agriculture development

Touseef HUSSAIN (Mati Mate Agromart Pvt Ltd., Bhavnagar - INDIA)

12:30 - 14:00 Lunch and exhibition Forum 4-5-6

WEDNESDAY, AUGUST 23

Detailed program



14:00 - 15:30

K6 - New Developments in Plant Disease Management

L'Amphithéâtre

Chairpersons:



Jochen KLEEMANN (Bayer AG, Berlin - GERMANY)



Mathews PARET (University of Florida, Gainesville - UNITED STATES)



K6-1

Disease early warning and advisory systems - the case of wheat rusts

David HODSON (CIMMYT - International Maize and Wheat Improvement Center, Mexico - MEXICO)



K6-2

Advances in plant virus disease management in sub-Saharan Africa - the case of bunch top disease Lava KUMAR (IITA Headquarters, Ibadan - NIGERIA)



K6-3

NLRseek™: High-throughput discovery pipeline for functional resistance genes Helen BRABHAM (2Blades Foundation, Norwich - UNITED KINGDOM)

15:30 - 16:00

ICPP 2023 Best Posters Awards Ceremony

L'Amphithéâtre

Typhaine BRUAL (pH.D student of University Lyon 1, France) & a committee of young plant pathologists

16:00 - 16:30

Coffee break and exhibition

Forum 4-5-6

16:00 - 18:30

POSTERS

	Poster viewing session 2	Forum 4-5-6
	F-23 - Flash Talk session	Agora
16:15	F3.3-1 - Cold and wild environments: Source of potential biocontrol agents for post diseases management Alessandra DI FRANCESCO (University of Udine, Udine - ITALY)	harvest fungal
16:20	F3.3-2 - Control of pomegranate postharvest diseases by in the field and after harv Annamaria MINCUZZI (University of Bari Aldo Moro, Bari - ITALY)	est treatments
16:25	F5.1-1 - A combined aerobiological approach allows differentiating the biology and of sporulation of two major fungal pathogens of chestnut Guglielmo LIONE (University of Torino, Grugliasco - ITALY)	environmental drivers
16:30	F5.1-2 - Aerobiota community assembly in vegetable production: Adapting metacot to nanopore metabarcoding Hervé VAN DER HEYDEN (McGill, Ste-Anne-de-Bellevue - CANADA)	mmunity theory
16:35	F5.2-1 - Platform development using a model host plant for high-throughput omics gene editing in Phytophthora cinnamom Aayushree KHAREL (School of Life and Environmental Sciences, Deakin University, Waurn Ponds.	
16:40	F5.3-1 - Candidate effector proteins conserved across fungal and oomycete foliar p Mariana TARALLO (Bioprotection Aotearoa, School of Natural Sciences, Massey University, Palme NEW ZEALAND)	•
16:45	F5.4-1 - From mitochondrial genome to strobilurin resistance: In silico analysis of g in fungal plant pathogens Benjamin CINGET (Université Laval, Québec - CANADA)	roup I Intron evolution
16:50	F5.5-1 - The basal expression of immune receptors depends on salicylic acid levels DMR6 family of hydroxylases Dmitry LAPIN (Utrecht University, Utrecht - NETHERLANDS)	regulated by the
16:55	F5.7-1 - Phenotyping biotic-abiotic interactions affecting rice grain yield to discover Gloria MOSQUERA (Alliance Bioversity & CIAT, Palmira - COLOMBIA)	tolerant genotypes
17:00	F6.1-1 - Integrating diagnostic tools to predict disease pressures in winter wheat an the application of biological fungicides Lucy MALLARD (Newcastle University, Newcastle Upon Tyne - UNITED KINGDOM)	d refine
17:05	F6.1-2 - Site-specific soil pest management in California strawberry & vegetable cro Franck MARTIN (USDA-ARS, Salinas, CA - UNITED STATES)	opping systems
17:10	F6.2-1 - Plasmids plague pelargoniums: A tale of bacterial blight and convergent ev Hannah TOTH (Ohio State University, Columbus - UNITED STATES)	volution
17:15	F6.2-2 - Finding a needle in a haystack using NGS and associated bioinformatics to Xiang Sean LI (Canadian Food Inspection Agency, Charlottetown - CANADA)	oolkit
17:20	F6.2-3 - Automated pipeline for genomic epidemiological diagnoses of phytopatho Zachary FOSTER (Oregon State University, Corvallis, Or - UNITED STATES)	genic bacteria

WEDNESDAY, AUGUST 23

Detailed program



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ROUND TABLES

R3.1 - The impact of discoveries in plant health	L'Amphithéâtre
R3.2 - Sharing and exploiting HTS data	Bellecour 2-3
R3.3 - Germplasm Seed Movement and Global Plant Health	Salon Tête d'Or

16:30 - 18:00

ISPP Subject Matter Committees (by invitation)

Bellecour 1

20:00 - 00:00

Conference dinner in Imagine Circus (compulsary registration in advance)

Imagine Circus

Since its creation, the Cirque Imagine has wanted to offer a high artistic level. Artists with top level are recruted and offer the best show.

The International Congress of Plant Pathology is pleased to invite you at the Cirque Imagine for a wonderful evening show!

How to get there?

By public transport:

Metro line A M A, Tram lines T3 T 3 and T7 T 7 – «Vaulx-en-Velin La Soie» stop.



15 min from the center of Lyon, 5 min from the East ring road, exit 9 «Vaulx-en-Velin, la Soie», near the motorways

If you registered to participate to the Conference Dinner, come to the welcome desk to get your free metro ticket!

THURSDAY, AUGUST 24 Program-at-a-glance

08:00 - 10:30	First ISPP Executive Committee and Secretariat (2023-2028), by invitation	Foyer Gratte Ciel Parc
	C5.1 - Modeling and analysis to better understand and predict epidemics	Gratte Ciel
	C5.2 - Molecular aspects: Plant-oomycetes interactions	Grand Salon Prestige
	C5.3 - Current and emerging forest pathology issues	Tête d'Or 1-2
08:30 - 10:30	C5.4 - Immune receptors: Activation, signaling & evolution	Salon Tête d'Or
	C5.5 - New Developments in Fungicide Resistance	Bellecour 1
	C5.6 - The Potential of Seed Microbiomes	Bellecour 3
	C5.7 - Plant pathogens interactions in multi stress conditions (abiotic and biotic stresses): Viruses and other pathogens?	Bellecour 2
10:30 - 11:00	Coffee break and exhibition	Forum 4-5-6
	C6.1 - Progress in disease control - Part 2	Gratte Ciel
	C6.2 - High Throughput Sequencing approaches for the detection of pathogens	Grand Salon Prestige
	C6.3 - Molecular aspects: Plant-nematode interactions	Tête d'Or 1-2
11:00 - 13:00	C6.4 - Particle-based delivery of biomolecules for crop protection	Salon Tête d'Or
	C6.5 - Soil-borne plant viruses	Bellecour 1
	C6.6 - Towards structure-based design of disease resistance genes	Bellecour 3
	C6.7 - A mechanistic approach of the varietal mixture effects on plant pathogens	Bellecour 2
13:00 - 14:30	Lunch break and exhibition	Forum 4-5-6
	C7.1 - Molecular aspects of plant-fungal interactions Part 2: Mechanisms of infection	Gratte Ciel
	C7.2 - Plant protection potential of persistent (cryptic) viruses in fungi, plants and insect vectors of plant disease	Grand Salon Prestige
	C7.3 - At the heart of disease emergence: Determinants and consequences of host range contours of plant pathogens	Tête d'Or 1-2
14:30 - 16:30	C7.4 - One health: Impact of resistance to antibiotics and fungicides in plant pathogens	Salon Tête d'Or
	C7.5 - Pathovars of Pseudomonas and Xanthomonas SPP.: Do they really exist?	Bellecour 1
	C7.6 - Social and cultural dimensions of international forest health	Bellecour 3
	C7.7 - APP-titude for social media in Plant Disease Research	Bellecour 2





16:30 - 17:00	Coffee break and exhibition	Forum 4-5-6
46.20, 40.00	Poster viewing session 2	Forum 4-5-6
16:30 - 18:00	F-24 - Flash Talk session	Agora
16:45 - 17:45	International Plant Pathology organizations (by invitation)	Salon Tête d'Or
10.45 - 17.45	ISPP Subject Matter Committee of "Forest Pathology" (by invitation)	Bellecour 1
	R4.1 - Research Integrity in Plant Pathology	Bellecour 2
16:45 - 17:45	R4.2 - Jobs in Plant Pathology: How a plant Pathologist works in industry setting (opened only for Ph.D students and Post-docs)	Foyer Gratte Ciel Parc
	C8.1 - Botryosphaeria dieback: Which hosts are affected, what we know and how to fight	Gratte Ciel
	C8.2 - Emerging Phytophthora's: Tackling Global Outbreaks that Impact Food security	Grand Salon Prestige
	C8.3 - Latest advancements in knowledge and management of Ralstonia species	Tête d'Or 1-2
18:00 - 20:00	C8.4 - Re-emergence of tobamoviruses threatening global vegetable production	Salon Tête d'Or
	C8.5 - Controlling Globally Developing Disease Threats of Banana	Bellecour 1
	C8.6 - From the deciphering of host pathogen interactions to disease management: The Leptosphaeria maculans /rapeseed case study	Bellecour 3
	C8.7 - Raising awareness of plants and ways of teaching plant pathology	Bellecour 2
20:30 - 22:30	Cérémonie des 50 ans de la SFP (by invitation - Private meeting in French)	Hôtel de Ville de Lyon



Detailed program

08:00 - 10:30

First ISPP Executive Committee and Secretariat (2023-2028), by invitation

Foyer Gratte Ciel Parc

08:30 - 10:30

CONCURRENT SESSIONS

C5.1 - Modeling and analysis to better understand and predict epidemics

Gratte Ciel

Chairpersons:

Larry MADDEN (Ohio State University, Wooster - UNITED STATES)

Peter OJIAMBO (North Carolina State University, Raleigh - UNITED STATES)

08:30 C5.1-1 - Bayesian spatial epidemiological models to assist in outbreak response.

The case of Xylella fastidiosa

Martina CENDOYA (Valencian Institute for Agricultural Research (IVIA), Valencia - SPAIN)

08:50 **C5.1-2 - A** compartmental mathematical model based on aphid feeding behaviours allows more realistic modelling of non-persistently transmitted plant viruses

Elin FALLA (University of Cambridge, Cambridge - UNITED KINGDOM)

09:05 **C5.1-3** - Exploiting similarities within phylogenetic clades of Colletotrichum SPP. to develop a mechanistic, weather-driven model for anthracnose diseases

Irene SALOTTI (Università Cattolica del Sacro Cuore, Piacenza - ITALY)

- 09:25 C5.1-4 Effects of pathogen sexual reproduction on the evolutionary and epidemiological control provided by deployment strategies for two major resistance genes in agricultural landscapes

 Marta ZAFFARONI (INRAE, Bordeaux Science Agro, SAVE, Villenave-D'ornon FRANCE)
- 09:40 C5.1-5 A spatially explicit network model to assess the effectiveness of within- and between-site treatment on epidemic spread across a landscape

Peter OJIAMBO (North Carolina State University, Raleigh - UNITED STATES)

10:00 C5.1-6 - Modeling the airborne inoculum of polystigma amygdalinum for improving the control of almond red leaf blotch

Elena LAZARO (Centre de Protecció Vegetal i Biotecnologia, Institut Valencià d'Investigacions Agràries (IVIA), Moncada - SPAIN)

C5.2 - Molecular aspects: Plant-oomycetes interactions

Grand Salon Prestige

Chairpersons:

Edouard EVANGELISTI (Wageningen University and Research, Wageningen - NETHERLANDS) **Eric GALIANA** (INRAE, Sophia Antipolis - FRANCE)

08:30 C5.2-1 - Mechanism of plant membrane damage by NEP1-LIKE proteins

Gregor ANDERLUH (National Institute of Chemistry, Ljubljana - SLOVENIA)

08:50 C5.2-2 - Discovery of protein markers of comycete ev's

Susan BREEN (University of Dundee, Dundee - UNITED KINGDOM)

09:05 **C5.2-3 - Kinetics of zoospores approaching a root using a microfluidic device Philippe THOMEN** (Institut de Physique de Nice, Université Côte d'Azur, Nice - FRANCE)

09:25 **C5.2-4** - Effect of small molecule modulators of calcium signalling on Phytophthora infestans Emma CONDON (University College Cork, Kilkenny - IRELAND)

09:40 C5.2-5 - Using LAB-ON-A-CHIP devices to study oomycete plant interactions

Ashley GARRILL (University of Canterbury, Christchurch - NEW ZEALAND)

10:00 C5.2-6 - Unlocking the secret to successful avocado defenses: The importance of nlr proteins during Phytophthora cinnamomi infection

Alicia FICK (University of Pretoria, Pretoria - SOUTH AFRICA)

Detailed program



08:30 - 10:30 CONCURRENT SESSIONS (next)

C5.3 - Current and emerging forest pathology issues

Tête d'Or 1-2

Chairpersons:

Irene BARNES (Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria - SOUTH AFRICA)

Julio Javier DIEZ CASERO (University of Valladolid, Valladolid - SPAIN)

08:30 C5.3-1 - A global account of the dothistroma needle blight pathogens and risks posed by emerging new lineages

Irene BARNES (Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria - SOUTH AFRICA)

- 08:50 **C5.3-2 Importance of healthy carriers in ash dieback Benoit MARÇAIS** (INRAE, Champenoux FRANCE)
- 09:05 **C5.3-3 Current and emerging issues for managing Phytophthora in a landscape of rapid change**Nari WILLIAMS (The New Zealand Institute for Plant and Food Research Limited, Havelock North NEW ZEALAND)
- 09:25 C5.3-4 Genomic biosurveillance of invasive alien tree pathogens can detect variants, hybrids and reveal super-spreader events Richard HAMELIN (UBC, Vancouver - CANADA)
- 09:40 **C5.3-5 Latent pathogens triggered by climate change are causing large-scale tree decline in California Matteo GARBELOTTO** (University of California at Berkeley, Berkeley UNITED STATES)
- 10:00 C5.3-6 Exogenous application of double-stranded RNA to control Fusarium circinatum on pines Irene T. BOCOS-ASENJO (Universidad de Valladolid, Palencia SPAIN)

C5.4 - Immune receptors: Activation, signaling & evolution

Salon Tête d'Or

Chairpersons:

Thomas KROJ (INRAE, Montpellier - FRANCE)

Cecile SEGONZAC (Seoul National University, Seoul - REPUBLIC OF KOREA)

- 08:30 **C5.4-1 Connecting the dots of PRR-mediated immune signaling Cyril ZIPFEL** (UNIVERSITY OF ZURICH, Zurich SWITZERLAND)
- 08:50 **C5.4-2 A tree-specific family of defense peptides shows anti-rust fungi and elicitor activities Julie LINTZ** (Université de Lorraine, INRAE, UMR Interactions Arbres/Microorganismes, Nancy FRANCE)
- 09:05 **C5.4-3 Enzymatic activities of tir domains: Molecular basis and immune signalling in plants and beyond Bostjan KOBE** (University of Queensland, Brisbane AUSTRALIA)
- 09:25 C5.4-4 The MLA immune receptor against barley powdery mildew mimics the binding interface of effector target to confer resistance against the blast fungus
 Diana GOMEZ DE LA CRUZ (The Sainsbury Laboratory, University of East Anglia, Norwich UNITED KINGDOM)
- 09:40 C5.4-5 Highly variable plant immune receptors are widespread in plants and share distinct genomic and Epigenomic Features
 Ksenia KRASILEVA (University of California, Berkeley, Berkeley UNITED STATES)
- 10:00 C5.4-6 Receptor-like cytoplasmic kinases from various subfamilies positively and differentially regulate AVR4/CF-4-Triggered reactive oxygen species production in nicotiana benthamiana Wen HUANG (Laboratory of Phytopathology, Wageningen University, Wageningen NETHERLANDS)

C5.5 - New Developments in Fungicide Resistance

Bellecour 1

Chairpersons:

Claudia GODOY (Embrapa, Londrina - BRAZIL)

Mingguo ZHOU (Nanjing Agricultural University, Nanjing - CHINA)

08:30 C5.5-1 - Fungal clone wars: How hybridisation and clonal expansion led to a new type of DMI resistance in barley spot form net blotch

Fran LOPEZ RUIZ (Curtin University, Perth - AUSTRALIA)

- 08:50 C5.5-2 Status of resistance evolution of barley diseases and current control strategies in Europe Mascha HOFFMEISTER (BASF SE, Limburgerhof GERMANY)
- 09:05 **C5.5-3 Fungicide resistance in most relevant brazilian crops Luis DEMANT** (FRAC- BR, Paulínia BRAZIL)
- 09:25 **C5.5-4 Field profiling of fungicide resistance frequencies Noel KNIGHT** (University of Southern Queensland, Toowoomba AUSTRALIA)
- 09:40 **C5.5-5 Fungicide resistance mechanisms and management in Fusarium graminearum species complex Zhonghua MA** (Zhejiang Univ., Hangzhou CHINA)
- 10:00 C5.5-6 Prevalence and co-occurrence of two fungicide resistance markers in Erysiphe necator Márk NEMETH Z. (Plant Protection Institute, Centre for Agricultural Research, ELKH, Budapest - HUNGARY)

C5.6 - The Potential of Seed Microbiomes

Bellecour 3

Chairpersons:

Lindsey DU TOIT (Washington State University, Mount Vernon - UNITED STATES)

Marie-Agnes JACQUES (IRHS - INRAE, Beaucouzé - FRANCE)

- 08:30 **C5.6-1 Seed microbiota: Diversity, assembly and transmission Matthieu BARRET** (INRAE, Angers FRANCE)
- 08:50 **C5.6-2 Future of seed pathology in the metagenomics era Jonathan JACOBS** (The Ohio State University, Columbus UNITED STATES)
- 09:05 **C5.6-3 New insights into tree seed mycobiomes A biosecurity perspective Iva FRANIC** (Swedish University of Agricultural Sciences, Alnarp SWEDEN)
- 09:25 **C5.6-4 Soybean and cotton spermosphere soil microbial dynamics Zachary NOEL** (Auburn University, Auburn UNITED STATES)
- 09:40 C5.6-5 Prevalence of viruses in pasture and horticultural plant seed microbiomes
 Tim SAWBRIDGE (Department of Energy, Environment and Climate Action, Bundoora AUSTRALIA)

Detailed program



08:30 - 10:30 CONCURRENT SESSIONS (next)

C5.7 - Plant pathogens interactions in multi stress conditions (abiotic and biotic stresses): Viruses and other pathogens?

Bellecour 2

Chairpersons:

Piotr TREBICKI (University of Melbourne, Melbourne - AUSTRALIA)
Manuella VAN MUNSTER (INRAE, Montpellier - FRANCE)

08:30 C5.7-1 - Plant-Virus-Vector interactions under abiotic stresses

Manuella VAN MUNSTER (INRAE, Montpellier - FRANCE)

Piotr TREBICKI (University of Melbourne, Melbourne - AUSTRALIA)

- 08:50 C5.7-2 Searching for sustainable and efficient sources of disease resistance upon fluctuating climate: Characterization of the wheat-specific responses to Fusarium head blight under contrasting irrigation Larissa ADAMIK (Université Clermont Auvergne, Clermont-Ferrand FRANCE)
- 09:05 C5.7-3 Drought exacerbate virus effect on canola plants
 Clara LAGO (Institute of Agricultural Science, Spanish Research Council, Madrid SPAIN)
- 09:25 C5.7-4 The Botrytis cinerea pectin lyase BCPNL1 is involved in pathogenicity and its pectinolytic activity contributes to the impact of host nitrogen nutrition on disease severity

 Antoine DAVIERE (Université Paris-Saclay, INRAE, AgroParisTech, Institut Jean-Pierre Bourgin (IJPB), Versailles FRANCE)
- 09:40 C5.7-5 Can temperature adaptation drive Ralstonia solanacearum range expansion in the future? Karla CARDENAS GOMEZ (UNIVERSITY OF YORK, York UNITED KINGDOM)
- 10:00 C5.7-6 Barley shows reduced Fusarium head blight under drought and modular expression of differential expressed genes under combined stress Christina STEIDELE (Technical University of Munich, Freising-Weihenstephan - GERMANY)

10:30 - 11:00 Coffee break and exhibition Forum 4-5-6

11:00 - 13:00

CONCURRENT SESSIONS (next)

C6.1 - Progress in disease control - Part 2

Gratte Ciel

Chairpersons:

Guido SCHNABEL (Clemson University, Clemson - UNITED STATES) **Gerd STAMMLER** (BASF, Ludwigshafen - GERMANY)

11:00 **C6.1-1 - The Australian way of crop disease control in agriculture and horticulture Levente KISS** (University of Southern Queensland, Toowoomba - AUSTRALIA)

11:20 **C6.1-2** - Integrated control of strawberry powdery mildew incorporating the use of a prediction system and a bio-available silicon nutrient

Bo LIU (University of Hertfordshire, Hatfield - UNITED KINGDOM)

11:35 **C6.1-3** - Fungicide resistance management, monitoring and alternatives investigated in the South African citrus industry

Jan VAN NIEKERK (Citrus Research International, Nelspruit - SOUTH AFRICA)

11:55 **C6.1-4** - A perspective for the use of synthetic analogs of the natural peptaibol trichogin GA IV as biopesticides

Silvio TUNDO (Department of Land, Environment, Agriculture and Forestry (TESAF), University of Padova, Legnaro - ITALY)

12:10 **C6.1-5** - The evolution of fungicide resistance in European cereal pathogen populations Nichola HAWKINS (National Institute of Agricultural Botany, Cambridge - UNITED KINGDOM)

12:30 C6.1-6 - Integrated plant disease management of cereals in France: From research to practice Romain VALADE (ARVALIS, Boigneville - FRANCE)

C6.2 - High Throughput Sequencing approaches for the detection of pathogens

Grand Salon Prestige

Chairpersons:

Fiona CONSTABLE (Agriculture Victoria, Bundoora - AUSTRALIA) Sebastien MASSART (Liege University, Gembloux - BELGIUM)

11:00 C6.2-1 - To trust or not to trust? That is the question when detecting a pathogen with high Throughput Sequencing: Considerations for improving the reliability of detection

Sebastien MASSART (Liege University, Gembloux - BELGIUM)

11:20 C6.2-2 - High Throughput Sequencing: Research to reality - The Australian post entry quarantine journey Julie PATTEMORE (Australian Government, Canberra - AUSTRALIA)

11:35 C6.2-3 - Validating small RNA sequencing and assembly as a generic method for virus indexing in potato and sweetpotato germplasm

Jan KREUZE (International Potato Center, Lima - PERU)

11:55 **C6.2-4** - Rose viruses: Understanding the current status and protecting the future of the United Kingdom rose sector

Ines VAZQUEZ IGLESIAS (Fera Science Ltd., York - UNITED KINGDOM)

12:10 C6.2-5 - High Throughput Sequencing approaches for fastidious bacterial detection and identification Fiona CONSTABLE (Agriculture Victoria, Bundoora - AUSTRALIA)

12:30 C6.2-6 - Metagenomic sequencing for tomato and pepper bacterial spot diagnostics
Taylor KLASS (The Ohio State University Department of Plant Pathology, Columbus - UNITED STATES)

Detailed program



11:00 - 13:00 CC

CONCURRENT SESSIONS (next)

C6.3 - Molecular aspects: Plant-nematode interactions	Tête d'Or 1-2

Chairpersons:

Diana FERNANDEZ (IRD, Montpellier - FRANCE)
Paulo VIEIRA (ARS-USDA, Beltsville - UNITED STATES)

11:00 C6.3-1 - Cellular and molecular mechanisms involved in GPA2-Mediated effector-triggered immunity against potato cyst nematodes

Aska GOVERSE (Laboratory of Nematology, Department of Plant Science, Wageningen University, Wageningen - NETHERLANDS)

- 11:20 C6.3-2 Genomic variations associated to MI-1 resistance breaking down by Meloidogyne incognita Ana ZOTTA MOTA (INRAE, Biot FRANCE)
- 11:35 C6.3-3 Beech leaf disease: An emergent threat to beech forest ecosystems Paulo VIEIRA (ARS-USDA, Beltsville UNITED STATES)
- 11:55 **C6.3-4 Sugr: The subventral gland "Master" regulator of Plant-Parasitic cyst nematodes Anika DAMM** (University of Cambridge, Cambridge UNITED KINGDOM)
- 12:10 C6.3-5 Detection of root-knot nematodes: Traditional VS. Novel approach with hyperspectral imaging Barbara GERIC STARE (Agricultural Institute of Slovenia / Kmetijski inštitut Slovenije, Ljubljana SLOVENIA)
- 12:30 **C6.3-6 Shoot! Where's my feeding site? Defining a tissue-independent response to nematode parasitism Olaf KRANSE** (University of Cambridge, Cambridge UNITED KINGDOM)

C6.4 - Particle based delivery of biomolecules for crop protection Salon Tête d'Or

Chairpersons:

Giorgio BALESTRA (UNIVERSITA DEGLI STUDI DELLA TUSCIA, Viterbo - ITALY)
Mathews PARET (University of Florida, Gainesville - UNITED STATES)

- 11:00 **C6.4-1 Bioclay Delivering RNA sprays to crops using clay particles for sustainable crop protection Neena MITTER** (The University of Queensland, St Lucia AUSTRALIA)
- 11:20 **C6.4-2 Using nanocarriers for targeted RNAI therapy in controlling plant pathogens Washington DA SILVA** (The Connecticut Agricultural Experiment Station, New Haven UNITED STATES)
- 11:35 C6.4-3 Cellulose-based nanoparticles to deliver active natural compounds: A successful case in the management of the tomato bacterial speck disease
 Daniele SCHIAVI (Department of Agriculture and Forest Sciences, University of Tuscia, Viterbo ITALY)
- 11:55 C6.4-4 The use of artificial nanovesicles for DSRNA delivery in Spray-Induced Gene Silencing (SIGS) for crop protection Jonatan NIÑO SÁNCHEZ (University of Valladolid, Palencia - SPAIN)
- 12:10 **C6.4-5 Synthetic lipid nanoparticles: Fabrication and use for plant disease protection Laura CHALUPOWICZ** (Agricultural Research Organization, Volcani Center, Rishon Lezion ISRAEL)
- 12:30 C6.4-6 Potential use of chitosan-based nanoparticles in crop protection
 Theoni MARGARITOPOULOU (Benaki Phytopathological Institute, Scientific Directorate of Phytopathology, Kifissia GREECE)

11:00 - 13:00

CONCURRENT SESSIONS (next)

C6.5 - Soil-borne plant viruses

Bellecour 1

Chairpersons:

Claude BRAGARD (UC Louvain, Louvain - BELGIUM)
Eugénie HEBRARD (IRD, Montpellier - FRANCE)

11:00 C6.5-1 - Viruses interact with soil and plant microbiomes

Ella Tali SIERADZKI (École Centrale de Lyon, Ecully - FRANCE)

11:20 C6.5-2 - Naturally occurring viral chimeric RNA - A novel class of functional sub-viral agents associated with virus infections in plants

Eugene SAVENKOV (Department of Plant Biology, Swedish University of Agricultural Sciences (SLU), Uppsala - SWEDEN)

- 11:35 C6.5-3 Virus-Nematode-Plant interactions during transmission of grapevine fanleaf virus Christophe RITZENTHALER (CNRS Université de Strasbourg, Strasbourg FRANCE)
- 11:55 C6.5-4 Soil-Borne multipartite BNYVV differentially controls its segment copy number Yi GUO (University of Bologna, DISTAL, Bologna ITALY)
- 12:10 C6.5-5 Towards a better understanding of furovirus-host interaction Identification of factors influencing infection

Annette NIEHL (Julius Kühn-Institut, Braunschweig - GERMANY)

12:30 C6.5-6 - Adaption of bnyvv towards RZ1 resistance in sugar beet Mark VARRELMANN (Institute of Sugar Beet Research, Göttingen - GERMANY)

C6.6 - Towards structure-based design of disease resistance genes

Bellecour 3

Chairpersons:

Thomas KROJ (INRAE, Montpellier - FRANCE)

You-Liang PENG (China Agricultural University, Beijing - CHINA)

- 11:00 C6.6-1 How to create new resistance genes by the molecular engineering of NLR immune receptors Thomas KROJ (INRAE, Montpellier FRANCE)
- 11:20 C6.6-3 Recognition of pathogen effectors by non-canonical domains in plant NLR immune receptors Mark BANFIELD (John Innes Centre, Norwich UNITED KINGDOM)
- 11:40 **C6.6-4 Revive broken NLR-Genes**

Daniel ZENDLER (Molecular Plant Pathology, SILS, Universiteit van Amsterdam, Amsterdam - NETHERLANDS)

11:55 **C6.6-5 - Designer RGA5 sensor receptors conferring altered specificity of blast resistance in rice Junfeng LIU** (China Agricultural University, Beijing - CHINA)

Detailed program



11:00 - 13:00

CONCURRENT SESSIONS (next)

C6.7 - A mechanistic approach of the varietal mixture effects on plant pathogens Bellecour 2

Chairpersons:

Elisabeth FOURNIER (INRAE, Montpellier - FRANCE)
Jean-Benoit MOREL (INRAE, Montpellier - FRANCE)
Frédéric SUFFERT (INRAE, Palaiseau - FRANCE)

- 11:00 **C6.7-1 Utilizing biodiversity science to guide sustainable crop management Anna-Liisa LAINE** (University of Zurich, Zurich SWITZERLAND)
- 11:20 **C6.7-2 How species mixtures suppress plant diseases: Insights from a meta-analysis Bob DOUMA** (Centre for Crop Systems Analysis, Wageningen University, Wageningen NETHERLANDS)
- 11:35 C6.7-3 Combining sources of resistance in varietal mixtures to manage the evolutionary dynamic of pathogen populations of cereal crops: A way to solve the efficiency-sustainability trade-off?

 Frédéric SUFFERT (INRAE, Palaiseau FRANCE)
- 11:55 C6.7-4 Plant-Plant interactions modulate wheat susceptibility to Septoria
 Laura MATHIEU (PHIM, INRAE, CIRAD, IRD, Institut Agro, Univ Montpellier, Montpellier FRANCE)
- 12:10 C6.7-5 Smarter varietal mixtures to improve plant disease management Alexey MIKABERIDZE (University of Reading, Reading UNITED KINGDOM)
- 12:30 C6.7-6 Variable effects of a wheat cultivar mixture on Septoria tritici blotch: Investigating key factors involved in mixture effect variation between European sites

 Tiphaine VIDAL (Université Paris-Saclay, INRAE, UR1290 BIOGER, Palaiseau FRANCE)

13:00 - 14:30 Lunch and exhibition Forum 4-5-6

14:30 - 16:30

CONCURRENT SESSIONS (next)

C7.1 - Molecular aspects of plant-fungal interactions Part 2:	Gratte Ciel
Mechanisms of infection	Giatte Clei

Chairpersons:

Antonio DI PIETRO (Universidad de Cordoba, Cordoba - SPAIN) Nathalie POUSSEREAU (Université Claude Bernard Lyon 1, Lyon - FRANCE)

- 14:30 C7.1-1 Functional analysis of the mep effector gene repertoire of the blast fungus Magnaporthe oryzae Nicholas TALBOT (The Sainsbury Laboratory, Norwich - UNITED KINGDOM)
- C7.1-2 Regulation of effector gene expression as concerted waves in Leptosphaeria maculans: A two-players game involving a chromatin remodeler and a specific transcription factor Isabelle FUDAL (INRAE, Palaiseau - FRANCE)
- 15:05 C7.1-3 Tight regulation of cell wall degrading enzymes is critical for virulence of the wheat pathogen ZymoSeptoria tritici

Andrea SANCHEZ-VALLET (Centro de Biotecnología y Genómica de Plantas, Universidad Politécnica de Madrid (UPM) – Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria (INIA/CSIC), Pozuelo De Alarcon - SPAIN)

C7.1-4 - Adressing redundant roles of phytotoxic proteins for necrotrophic infection of Botrytis cinerea by multi-K.O. mutagenesis

Matthias HAHN (RPTU Kaiserslautern University, Kaiserslautern - GERMANY)

- C7.1-5 Suppression and counter-suppression of plant immunity by an EXO-BETA-1,3-GLUCANASE of GH17 family and an elongation factor 1ALPHA of the rice blast fungus You-Liang PENG (China Agricultural University, Beijing - CHINA)
- 16:00 C7.1-6 - The fungal pathogen Ustilago maydis modulates host gene expression to trigger tumor formation in maize

Gunther DOEHLEMANN (UNIVERSITY OF COLOGNE, Cologne - GERMANY)

C7.2 - Plant protection potential of persistent (cryptic) viruses in fungi, **Grand Salon** plants and insect vectors of plant disease

Prestige

Chairpersons:

María A. AYLLON (Universidad Politécnica de Madrid, Madrid - SPAIN) Massimo TURINA (National Research Council of Italy, Torino - ITALY)

- 14:30 C7.2-1 Exploring mycovirus-mediated hypovirulent strain as plant vaccine to control crop disease Daohong JIANG (Huazhong Agricultural University, Wuhan - CHINA)
- 14:50 C7.2-2 Effects on the sporogenesis and biocontrol functions of Trichoderma SPP. by the mycoviruses Wu BEILEI (Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing - CHINA)
- 15:05 C7.2-3 Conditional mutualism between grapevine rupestris stem pitting-associated virus and Vitis vinifera confers tolerance to drought and fungal diseases Giorgio GAMBINO (National Research Council of Italy (CNR), Torino - ITALY)
- 15:25 C7.2-4 Investigating plant persistent viruses in pepper Satish Bharathwaj VISWANATHAN (UNIVERSITY OF CAMBRIDGE, Cambridge - UNITED KINGDOM)
- 15:40 C7.2-5 Latent virus infection in insect pests: The case study of iflaviruses and Phytoplasma vectors Sara OTTATI (Università degli studi di Torino, Grugliasco (To) - ITALY)
- 16:00 C7.2-6 The miscellaneous mycovirome associated to the plant pathogenic fungus Erysiphe necator María A. AYLLON (Universidad Politécnica de Madrid, Madrid - SPAIN)

Detailed program



14:30 - 16:30 CONCURRENT SESSIONS (next)

C7.3 - At the heart of disease emergence: Determinants and consequences of host range contours of plant pathogens

Tête d'Or 1-2

Chairpersons:

Benoit MOURY (INRAE, Montfavet - FRANCE)

Méline SAUBIN (Université de Lorraine, INRAE, IAM, Nancy - FRANCE)

14:30 C7.3-1 - On the emergence of new pathogens: Insights from comparative genome studies of the Septoria blotch pathogen

Eva STUKENBROCK (Christian-Albrechts University of Kiel, Kiel - GERMANY)

14:50 C7.3-2 - Stemphylium vesicarium causes foliar disease on celery in Michigan, USA Abdelrazek ABDELRHIM (Department of Plant Pathology, Faculty of Agriculture, Minia University, El-Minya - EGYPT)

15:05 C7.3-3 - Demographic and genomic consequences of a rapid adaptation event in the poplar rust pathogen Méline SAUBIN (Université de Lorraine, INRAE, IAM, Nancy - FRANCE)

15:25 C7.3-4 - History of the law of barberry eradication: - Why was the law removed and should it be reinstated? A case study from Sweden

Anna BERLIN (Swedish univeristy of agricultural sciences, Uppsala - SWEDEN)

15:40 C7.3-5 - Subpopulation differences in susceptibility to viral disease in north American switchgrass: Genetic and ecological considerations

Michael RYSKAMP (Michigan State University, Department of Plant Biology, Michigan - UNITED STATES)

16:00 C7.3-6 - Survival niches of Curtobacterium flaccumfaciens PV. flaccumfaciens
Daniele Maria NASCIMENTO (Sao Paulo State University, Botucatu - BRAZIL)

C7.4 - One health: Impact of resistance to antibiotics and fungicides in plant pathogens

Salon Tête d'Or

Chairpersons:

Claude BRAGARD (UC Louvain, Louvain - BELGIUM)

Sally MILLER (Ohio State University, Columbus - UNITED STATES)

14:30 C7.4-1 - Medical implications of azole fungicide use on Aspergillus fumigatus: A One Health challenge requiring a multidisciplinary approach

Paul VERWEIJ (Radboud University Medical Centre, Nijmegen - NETHERLANDS)

14:50 C7.4-2 - Sensitivity to azole fungicides in nordic populations of Parastagonospora nodorum causing stagonospora nodorum blotch of wheat and Aspergillus fumigatus causing invasive aspergillosis in humans

Andrea FICKE (Norwegian Institute of Bioeconomy Research (NIBIO), Aas - NORWAY)

15:05 C7.4-3 - The hunt for killer Aspergillus fumigatus in the environment - Surveillance of tomato and corn fields in Ohio

Melanie IVEY (The Ohio State University, Wooster - UNITED STATES)

15:25 C7.4-4 - Elucidating the impacts of anthropogenic activities on beneficial and pathogenic plant microbe interactions

Wisnu Adi WICAKSONO (Graz University of Technology, Graz - AUSTRIA)

15:40 C7.4-5 - Use of antibiotics to control plant pathogenic bacteria: Genetic and genomic considerations

Marie VERHAEGEN (Université catholique de Louvain (UCLouvain), Louvain-La-Neuve - BELGIUM)

Detailed program

14:30 - 16:30 CONCURRENT SESSIONS (next)

C7.5 - Pathovars of Pseudomonas and Xanthomonas spp.: Do they really exist?

Bellecour 1

Chairpersons:

Teresa COUTINHO (University of Pretoria, Pretoria - SOUTH AFRICA)

Marion FISCHER-LE SAUX (INRAE, Beaucouzé - FRANCE)

14:30 C7.5-1 - The pathovar concept misrepresents the reality of disease as a multifactor process;

It's time to modernize

Cindy MORRIS (INRAE, Montfavet - FRANCE)

14:50 C7.5-2 - Pathovars of Xanthomonas campestris, diagnostics and disease resistance Joana VICENTE (Fera Science Ltd, York - UNITED KINGDOM)

- 15:05 **C7.5-3 Bacterial pathovar does not align with current (META) genomics-based pathogen identification Jonathan JACOBS** (The Ohio State University, Columbus UNITED STATES)
- 15:25 C7.5-4 Phylogeny-Assisted Subspecific classification of xanthomonads infecting tomato and pepper Jeffrey B. JONES (Department of Plant Pathology, University of Florida, Gainesville UNITED STATES)
- 15:40 C7.5-5 Time to revisit the pathovar concept, towards a polyphasic approach?

 Marion FISCHER-LE SAUX (INRAE, Beaucouzé FRANCE)

C7.6 - Social and cultural dimensions of international forest health

Bellecour 3

Chairpersons:

Melanie MARK-SHADBOLT (Te Tira Whakamataki, Rangiora - NEW ZEALAND)

Geoffrey M. WILLIAMS (USDA Forest Service, International Programs, Lansing - UNITED STATES)

14:30 C7.6-1 - The Global forest health crisis: A public good social dilemma in need of International Collective Action

Geoffrey M. WILLIAMS (USDA Forest Service, International Programs, Lansing - UNITED STATES)

14:50 C7.6-2 - NGA rakau taketake - Control, protect, cure novel. Tools and technologies for Detection and Management

Dave MILNER (Kahu Environmental, Wellington - NEW ZEALAND)

Marion WOOD (Auckland - NEW ZEALAND)

15:05 C7.6-4 - Indigenous seed banking to protect against plant pathogens in aotearoa New Zealand Marcus SHADBOLT (Te Tira Whakamataki, Rangiora - NEW ZEALAND)
Phoebe FORDYCE (Te Tira Whakamataki, Rangiora - NEW ZEALAND)

15:20 C7.6-5 - Media coverage of forest survival in Turkey

Akile GURSOY (Beykent University, Istanbul - TURKEY)

15:40 C7.6-6 - An indigenous solution to a plant pathogen impacting an iconic tree species in Aotearoa-New Zealand

Tohe ASHBY (Nga Tirairaka o Ngati Hine, Whangarei - NEW ZEALAND) **Jamie ATARIA** (Te Tira Whakamataki, Rangiora - NEW ZEALAND)

Detailed program



14:30 - 16:30 CONCURRENT SESSIONS (next)

C7.7 - APP-titude for social media in Plant Disease Research

Bellecour 2

Chairpersons:

Maria Lodovica GULLINO (University of Torino, Grugliasco - ITALY)

Gregory I JOHNSON (International Society for Plant Pathology, Jamison - AUSTRALIA)

Andrea MASINO (University of Torino, Grugliasco - ITALY)

- 14:30 C7.7-1 Enhancing social media delivery to plant pathologists Gregory I JOHNSON (International Society for Plant Pathology, Jamison - AUSTRALIA)
- 14:50 **Discussion**
- 15:05 C7.7-3 The international year of plant health: Being a journalist helps Maria Lodovica GULLINO (University of Torino, Grugliasco ITALY)
- 15:25 C7.7-4 From phytopathological strolls to social media scrolls: An opportunity to raise awareness of plant pathogens

Frédéric SUFFERT (INRAE, Palaiseau - FRANCE)

- 15:40 C7.7-5 The intersection of social media and indigenous rights in plant pathology
 Hanareia EHAU-TAUMAUNU (The New Zealand Institute for Plant and Food Research Limited, Auckland NEW ZEALAND)
- 16:00 Discussion

16:30 - 17:00 Coffee break and exhibition Forum 4-5-6

16:30 - 18:00	POSTERS		
	Poster viewing session 2	Forum 4-5-6	
	F-24 - Flash Talk session	Agora	
16:45	F6.3-1 - RNAI-mediated parasitism gene silencing as source of crop protection resist to Meloidogyne incognita Maria Fatima GROSSI-DE-SA (Embrapa Genetic Resources and Biotechnology, Brasilia-Df - BRAZ		
16:50	F7.1-2 - Spatiotemporal analysis of tan spot in wheat using transcriptome and high- elemental imaging Fatima NAIM (Curtin University, Bentley - AUSTRALIA)	resolution	
16:55	F7.2-1 - Distinct persistent insect viruses characterize local populations of tospovirus thrips species Marika ROSSI (Institute for Sustainable Plant Protection, Torino - ITALY)	us-transmitting	
17:00	F9.2-1 - Pectobacterium and Dickeya potato blackleg pathogens: Effect of intra and strains associations in field trial Jeremy CIGNA (FN3PT-inov3PT, Paris - FRANCE)	I inter-species	
17:05	F9.2-2 - Role of anaerobic respirations of carbon sources on survival and ecologica of Dickeya genus Feth El Zahar HAICHAR (INSA Lyon, Villeurbanne - FRANCE)	l fitness	
17:10	F9.2-3 - Small secretory proteins in the pathogenesis of Sclerotinia sclerotiorum Jiasen CHENG (Huazhong Agricultural University, Wuhan - CHINA)		
17:15			
17:20			
17:25			
17:30			
17:35	F9.4-3 - Apple scab forecasting: An insight into prevailing and prospective methods K. P. SINGH (G B Pant University of Agriculture & Technology, Pantnagar - INDIA)	s	
16:45 - 17:45	PRIVATE MEETINGS (by invitation)		
	International Plant Pathology organizations	Salon Tête d'Or	
ISPP Subject Matter Committee of «Forest Pathology» Belle			
16:45 - 17:45	ROUND TABLES		
	R4.1 - Research Integrity in Plant Pathology	Bellecour 2	
	R4.2 - Jobs in Plant Pathology: How a plant Pathologist works in industry setting (opened only for Ph.D students and Post-docs)	Foyer Gratte Ciel Parc	

Detailed program



18:00 - 20:00

CONCURRENT SESSIONS

C8.1 - Botryosphaeria dieback: Which hosts are affected,	Gratte Ciel
what we know and how to fight	Gratte Cier

Chairpersons:

Josep ARMENGOL (Universitat Politecnica de Valencia, Valencia - SPAIN)
Florence FONTAINE (University of Reims Champagne-Ardenne, Reims - FRANCE)

- 18:00 **C8.1-1 Botryosphaeriaceae on crops: Currents status of the taxonomy of genera and species Artur ALVES** (Universidade de Aveiro, Aveiro PORTUGAL)
- 18:20 **C8.1-2 Occurrence of Botryosphaeriaceae species pathogens in agriculture and forest systems in California Akif ESKALEN** (University of California, Davis, Davis UNITED STATES)
- 18:35 C8.1-3 The latent pine pathogen Diplodia sapinea contains two dispensable chromosomes with distinct genomic characteristics Brenda WINGFIELD(University of Pretoria, Pretoria - SOUTH AFRICA)
- 18:55 C8.1-4 Botryosphaeriaceae cankers of almond in California: Species diversity, molecular detection and biological control

Florent TROUILLAS (University of California, Davis, Parlier - UNITED STATES)

19:10 **C8.1-5** - Botryosphaeria panicle and shoot blight of pistachio: From a dilemma of the California pistachio industry to a success story

Themis MICHAILIDES (University of California Davis, Parlier - UNITED STATES)

19:30 C8.1-6 - Neofusicoccum parvum: A plant pathogen of global significance Bernard SLIPPERS (Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria - SOUTH AFRICA)

C8.2 - Emerging Phytophthora's: Tackling Global Outbreaks that Impact Food security

Grand Salon Prestige

Chairpersons:

Lise KORSTEN (University of Pretoria, Pretoria - SOUTH AFRICA)
Jean RISTAINO (NC State University, Raleigh - UNITED STATES)

18:00 C8.2-1 - Predicting future Phytophthora outbreaks: New tools to identify emerging lineages and track spread

Jean RISTAINO (NC State University, Raleigh - UNITED STATES)

- 18:20 C8.2-2 The range and contribution of barcoding in Phytophthora and other oomycetes David COOKE (The James Hutton Institute, Dundee UNITED KINGDOM)
- 18:35 C8.2-3 Multivariate bayesian analysis to predict invasiveness of Phytophthora pathogens Treena BURGESS (Murdoch University, Perth - AUSTRALIA)
- 18:55 **C8.2-4** Implications of host range and thermal response evolution for emergence of plant pathogenic Phytophthora species

Daniel BEBBER (University of Exeter, Exeter - UNITED KINGDOM)

19:10 **C8.2-5** - Integrating traits, phylogeny and human drivers into risk assessment frameworks for emerging Phytophthora threats

Louise BARWELL (UK Centre for Ecology and Hydrology, Wallingford - UNITED KINGDOM)

19:30 C8.2-6 - Investigating the risk from Phytophthora in plant nursery green waste Kadiatou SCHIFFER-FORSYTH (Forest Research, Roslin - UNITED KINGDOM)

18:00 - 20:00

CONCURRENT SESSIONS (next)

C8.3 - Latest advancements in knowledge and management of Ralstonia species Tête d'Or 1-2

Chairpersons:

Kalpana SHARMA (International Potato Center, Nairobi - KENYA)

Mathews PARET (University of Florida, Gainesville - UNITED STATES)

18:00 C8.3-1 - Describing the known global distribution, host range, and genomic diversity of the Ralstonia species complex through cohort-based undergraduate research

Tiffany LOWE-POWER (UC Davis, Davis - UNITED STATES)

- 18:20 **C8.3-2 The special case of race 3 BIOVAR 2: Why is Ralstonia solanacearum IIB-1 so effective? Caitilyn ALLEN** (University of Wisconsin-Madison, Madison Wi UNITED STATES)
- 18:35 C8.3-3 Proteases and structural components that restrict R. solanacearum colonisation in resistant tomato

Marc VALLS (Univeristat de Barcelona, Barcelona - SPAIN)

18:55 C8.3-4 - The expansion of the tropical Ralstonia pseudosolanacearum (PHY I) to the temperate climates and considerations on the new risks

Maria BERGSMA-VLAMI (Netherlands Institute for Vectors, Invasive plants and Plant health (NIVIP), Wageningen - NETHERLANDS)

- 19:10 **C8.3-5 Bacterial wilt of potato: A threat to food security in Sub-Saharan Africa Kalpana SHARMA** (International Potato Center, Nairobi KENYA)
- 19:30 **C8.3-6** Elucidation of infection mechanism of Ralstonia solanacearum on ginger using aseptically regenerated plants

Kouhei OHNISHI (Kochi University, Nankoku - JAPAN)

C8.4 - Re-emergence of tobamoviruses threatening global vegetable production Salon Tête d'Or

Chairpersons:

Kai-Shu LING (USDA Agricultural Research Service, Charleston - UNITED STATES) William WINTERMANTEL (USDA-ARS, Salinas - UNITED STATES

- 18:00 **C8.4-1 Global emergence of tomato brown rugose fruit virus in tomato and pepper and its management Kai-Shu LING** (USDA Agricultural Research Service, Charleston UNITED STATES)
- 18:20 **C8.4-2 Water and soil contaminated with emerging tobamoviruses are the source of plant infections**Nataša MEHLE (National Institute of Biology, Ljubljana SLOVENIA)
- 18:35 **C8.4-3 Improving strategies for tomato brown rugose fruit virus surveillance in tomato fruit production Adrian FOX** (Fera, York UNITED KINGDOM)
- 18:55 **C8.4-4** The Emerging tomato brown rugose fruit virus reveals a crossroad between viral movement and plant immunity

Ziv SPIEGELMAN (Department of Plant Pathology and Weed Research, Agricultural Research Organization - Volcani Institute, Rishon Lezion - ISRAEL)

19:10 C8.4-5 - Cucumber green mottle mosaic virus symptomatology in cucumber plants exposed to fluctuating temperatures and soil pathogens

Aviv DOMBROVSKY (ARO The Volcani Center, Rishon Le Zion - ISRAEL)

19:30 **C8.4-6** - The role of the weed species Amaranthus viridis in the epidemiology and survival of cucumber green mottle mosaic virus

Joanne MACKIE (Agriculture Victoria Research, Department of Energy, Environment and Climate Action, Bundoora - AUSTRALIA)

Detailed program



18:00 - 20:00 CONCU

CONCURRENT SESSIONS (next)

C8.5 - Controlling Globally Developing Disease Threats of Banana

Bellecour 1

Chairpersons:

Andre DRENTH (The University of Queensland, Brisbane - AUSTRALIA)
Gerrit Hj KEMA (Wageningen University, Wageningen - NETHERLANDS)

18:00 **C8.5-1 - Fusarium wilt of banana caused by tropical race 4: Problems and prospects Gerrit Hj KEMA** (Wageningen University, Wageningen - NETHERLANDS)

18:20 C8.5-2 - From gene discovery to commercial release: A GM cavendish banana highly resistant to Fusarium wilt tropical Race 4

James DALE (Queensland University of Technology, Brisbane - AUSTRALIA)

- 18:35 **C8.5-3 Limiting Fungicide use in the management of banana leaf spot diseases Jean CARLIER** (CIRAD, Montpellier FRANCE)
- 18:55 **C8.5-4 Effect of a plant-based biological control of Fusarium wilt on the soil microbiome Eliana TORRES BEDOYA** (University of Exeter, Exeter UNITED KINGDOM)
- 19:10 **C8.5-5 Banana bunchy top virus Managing this ever-expanding threat John THOMAS** (The University of Queensland, QAAFI, Brisbane AUSTRALIA)
- 19:30 **C8.5-6** An optimised sampling and detection protocol for Fusarium oxysporum F. SP. cubense tropical race 4 from environmental soil

D. MOSTERT (Stellenbosch University, Stellenbosch - SOUTH AFRICA)

C8.6 - From the deciphering of host pathogen interactions to disease management: The Leptosphaeria maculans /rapeseed case study

Bellecour 3

Chairpersons:

Dilantha FERNANDO (University of Manitoba, Winnipeg - CANADA) **Thierry ROUXEL** (INRAE, Thiverval-Grignon - FRANCE)

18:00 C8.6-1 - A set of international isolates of the brassica napus pathogen Leptosphaeria maculans towards elucidating the basis and evolution of plant disease

Angela VAN DE WOUW (University of Melbourne, Horsham - AUSTRALIA)

18:20 C8.6-2 - Advances in characterisation of quantitative resistance to Leptosphaeria maculans (Blackleg) in rapeseed (Canola)

Susan SPRAGUE (CSIRO, Canberra - AUSTRALIA)

18:35 **C8.6-3 - Structural and functional characterization of effector proteins to propose knowledge-driven** plant resistance management

Clémentine LOUET (INRAE, UR 1290 BIOGER, Palaiseau - FRANCE)

18:55 C8.6-4 - A multiplex High Thoughtput Sequencing tool for the study of avirulence allelic diversity and race structure in populations of Leptosphaeria maculans

Thierry ROUXEL (INRAE, Thiverval-Grignon - FRANCE)

19:10 C8.6-5 - Function of B.napus cell surface receptors in resistance against blackleg disease of canola

19:30 C8.6-6 - Success in r-gene labeling, multi genes, kasp markers and QR: A game changer in the canola blackleg playbook in Canada

Dilantha FERNANDO (University of Manitoba, Winnipeg - CANADA)

M. Hossein BORHAN (Agriculture and Agri-Food Canada, Saskatoon - CANADA)

Detailed program

18:00 - 20:00	CONCURRENT SESSIONS	(next)
10100 =0100		

C8.7 - Raising awareness of plants and ways of teaching plant pathology

Bellecour 2

Chairpersons:

Erik ALEXANDERSSON (SLU, Loma - SWEDEN)
Elsa BALLINI (Institut agro Montpellier, Montpellier - FRANCE)

18:00 **C8.7-1** - **Teaching plant pathology**

Maria Lodovica GULLINO (University of Torino, Grugliasco - ITALY)

- 18:20 C8.7-2 Teaching plant pathology in the larger context of science and the humanities Brett ARENZ (University of Minnesota, Twin Cities - UNITED STATES)
- 18:35 C8.7-3 Graduate education in plant pathology: Preparing scholars to advance the discipline James STACK (Kansas State University, Manhattan UNITED STATES)
- 18:55 **C8.7-4 A** step forward in the application and teaching of modern statistical methods for plant pathology **Demetrio MARCIANÒ** (Dipartimento di Scienze Agrarie e Ambientali (DISAA), University of Milan, Milan ITALY)
- 19:10 C8.7-6 A convenient bibliometric pipeline to snap-shot large research fields An example of application with the field of molecular plant immunity
 Benjamin PETRE (Unité Mixte de Recherche Université de Lorraine/INRAE Interactions Arbres-Microorganismes,

Benjamin PETRE (Unité Mixte de Recherche Université de Lorraine/INRAE Interactions Arbres-Microorganismes, Nancy - FRANCE)

20:30 - 22:30

Cérémonie des 50 ans de la SFP (by invitation - Private meeting in French)

Hôtel de Ville de Lyon





	C9.1 - CRISPR crops: Plant Genome Editing Toward Disease Resistance	Auditorium Lumière
	C9.2 - Necrotrophic plant pathogens	Amphi Pasteur
	C9.3 - Endophytes and diseases	Salon Pasteur
08:30 - 10:30	C9.4 - The future of disease surveillance and prediction: Beyond the usual suspects	Rhone 3A
	C9.5 - Forest pathogenic fungi interacting with insect pests: Research fronts and perspectives	Rhone 2
	C9.6 - Synergism/antagonism between microbial pathogens and disease complexes: Implications in epidemiology and management	Rhone 1
	C9.7 - Biology and paleovirology of the Caulimoviridae	Rhone 3B
10:30 - 11:00	Coffee break and exhibition	Place Haute
11:00 - 12:30	Closing Ceremony	Auditorium Lumière
14:00 - 16:00	SFP General Assembly (by invitation)	Auditorium Lumière
16:00 - 18:00	Conférence grand public Les plantes attaquées par des microbes nuisibles: demain nous lutterons avec des microbes bénéfiques	Auditorium Lumière



08:30 - 10:30 CONCUR

CONCURRENT SESSIONS

C9.1 - CRISPR crops: Plant Genome Editing Toward Disease Resistance

Auditorium Lumière

Chairpersons:

Jean-Luc GALLOIS (INRAE, Montfavet - FRANCE)

Ricardo OLIVA (World vegetable center, Shanhua, Tainan - TAIWAN)

08:30 C9.1-1 - Resistance to viruses based on EIF4E: From natural variation to edited genes

Jean-Luc GALLOIS (INRAE, Montfavet - FRANCE)

- 08:50 **C9.1-2 Genome editing of a rice CDP-DAG synthase confers broad-spectrum disease resistance Guotian LI** (Huazhong Agricultural University, Wuhan CHINA)
- 09:05 **C9.1-3** Applications of gene editing for high-throughput gene function discovery and disease resistance improvement in rice

Kabin XIE (National Key Laboratory of Crop Genetic Improvement, Huazhong Agricultural University, Wuhan - CHINA)

- 09:25 **C9.1-4 Tapping into plant immune priming by genome editing- towards agriculturally improved crops Maya BAR** (ARO Volcani Institute, Rishon Lezion ISRAEL)
- 09:40 C9.1-5 Genome editing of an African elite rice variety confers resistance against endemic and emerging Xanthomonas oryzae PV. Oryzae Strains
 Boris SZUREK (IRD, Montpellier, FRANCE)
- 10:00 C9.1-6 Disease resistant GM AND GE CROPS: A regulatory trip around the world Crystal TURNBULL (Norwegian University of Life Sciences (NMBU), Aas - NORWAY)

C9.2 - Necrotrophic plant pathogens

Amphi Pasteur

Chairpersons:

Matthias HAHN (RPTU Kaiserslautern University, Kaiserslautern - GERMANY)
Henri William NASSER (MAP UMR 5240 CNRS-UCBL-INSA Lyon, Villeurbanne - FRANCE)

- 08:30 **C9.2-1** Mechanisms of host specificity in the genus Botrytis
 - Jan VAN KAN (Wageningen University, Wageningen NETHERLANDS)
- 08:50 C9.2-2 Is the mechanistic action of nlp-induced plant membrane damage universal? Nika ZIBRAT (National Institute of Chemistry, Ljubljana - SLOVENIA)
- 09:05 **C9.2-3 Pectobacterium brasiliense: What have we learned in nearly two decades of research? Lucy MOLELEKI** (University of Pretoria, Pretoria SOUTH AFRICA)
- 09:25 **C9.2-4** Identification OF PTTNLS1 A putative Pyrenophora teres F. Teres effector involved with barley RPT5-Mediated resistance

Karl EFFERTZ (Washington State University, Pullman - UNITED STATES)

09:40 C9.2-5 - Small molecules, big impact: Multilevel regulation of C-DI-GMP and its effectors on virulence factors of Dickeya dadantii

Ching-Hong YANG (University of Wisconsin, Milwaukee, Milwaukee - UNITED STATES)

10:00 C9.2-6 - A counter staining technique eliminates the need for transformation and results in more accurate quantification in multiple fungal-plant interactions

Ashley NELSON (Department of Plant Pathology, North Dakota State University, Fargo - UNITED STATES)



C9.3 - Endophytes and diseases

Salon Pasteur

Chairpersons:

Pedro JIMENEZ (Universidad Militar Nueva Granada, Nueva Granada - COLOMBIA) Silvia RESTREPO (Universidad de los Andes, Bogota - COLOMBIA)

08:30 **C9.3-1** - Endophytism, an evolutionary gate to symbioses

Marc-André SELOSSE (Muséum national d'Histoire naturelle, Paris - FRANCE)

08:50 C9.3-2 - Apoplastic space of two cultivars provides highly different environments for pathogen colonization: Insights from proteome and microbiome profiling

Carolina Sardinha FRANCISCO (Christian-Albrechts Universität of Kiel, Kiel - GERMANY)

C9.3-3 - Relationship between fungal endophytes and plant disease

Birgit JENSEN (University of Copenhagen, Frederiksberg C - DENMARK)

09:25 **C9.3-5** - From field to microbial landscapes: Impact of sustainable practices in microbial community in a corn-soybean rotation system

Alejandro ROJAS (University of Arkansas - Division of Agriculture, Fayetteville - UNITED STATES)

09:45 C9.3-6 - Pathogenicity of Endophytic Fusarium Species from Corn Plants (Zea Mays) in Peninsular Malaysia

Latiffah ZAKARIA (Universiti Sains Malaysia, Minden - MALAYSIA)

C9.4 - The future of disease surveillance and prediction:	Dhana 2A
Beyond the usual suspects	Rhone 3A

Chairpersons:

Cindy MORRIS (INRAE, Montfavet - FRANCE)

Emerson DEL PONTE (Universidade Federal de Viçosa, Viçosa - BRAZIL)

08:30 C9.4-1 - Landscape ecology of rice yellow mottle virus along the Niger valley and implications for disease surveillance and anticipation

Oumar TRAORE (Institut de l'Environnement et de Recherches Agricoles (INERA), Ouagadougou - BURKINA FASO)

08:50 **C9.4-2** - The role of vineyard characteristics, technology and cultivation in the grape diseases prevalence: First lectures of a large-scale citizen science

Ivett KOCSIS (Hungarian University of Agriculture and Life Sciences, Budapest - HUNGARY)

- 09:05 **C9.4-3 Combining network analysis and machine learning for designing surveillance strategies**Samuel SOUBEYRAND (INRAE, Avignon FRANCE)
- 09:25 **C9.4-4 Path-Finder: Finding the spore before the disease**Tracey Vivien STEINRUCKEN (CSIRO, Dutton Park AUSTRALIA)
- 09:40 **C9.4-5** The phytopatholobot: An autonomous robot for real-time disease detection and severity estimation in vineyards

Katie GOLD (Cornell University, Geneva - UNITED STATES)

09:55 **C9.4-6 - Digitization of dehradun (India) forest fungarium with data mining of plants disease Yadav NEELESH** (Forest Research Institute Dehradun, Dehradun - INDIA)

C9.5 - Forest pathogenic fungi interacting with insect pests: Research fronts and perspectives

Rhone 2

Chairpersons:

Cécile ROBIN (INRAE, Cestas - FRANCE)

Andrea VANNINI (Universita degli Studi della Tuscia, Viterbo - ITALY)

08:30 **C9.5-1** - A phylogenetic epidemiology approach to predicting the establishment of a multihost pest-pathogen complex

Shannon LYNCH (State University of New York College of Environmental Science and Forestry, Syracuse - UNITED STATES)

08:50 C9.5-2 - A new and unusually widespread infestation of the previously rare stroma-forming fungus Curreya pityophila in association with the adelgid species pineus pini affecting pinus sylvestris across Scotland

Sarah GREEN (Forest Research, Roslin - UNITED KINGDOM)

- 09:05 **C9.5-3 XYLOSANDRUS SP. And associated fungi: A high-risk symbiosis for natural environments Carmen MORALES-RODRIGUEZ** (Tuscia University, Viterbo ITALY)
- 09:25 **C9.5-4** Ophiostomatoid fungal species associated with mediterranean bark beetle orthotomicus erosus in Croatia

Marta KOVAC (Croatian Forest Research Institute, Jastrebarsko - CROATIA)

- 09:40 **C9.5-5 Effects of Lymantria monacha outbreaks on foliar fungal communities and non-target insects Vytautas CESNA** (Institute of Forestry, Lithuanian Research Centre for Agriculture and Forestry, Kaunas LITHUANIA)
- 10:00 C9.5-6 Elms, Beetles, Ophiostoma Novo-Ulmi and Geosmithia SPP.: A complex interaction between main players of dutch elm disease

Francesco PECORI (National Research Council - Institute for Sustainable Plant Protection, Sesto Fiorentino - ITALY)

C9.6 - Synergism/antagonism between microbial pathogens and disease complexes: Implications in epidemiology and management

Rhone 1

Chairpersons:

Teresa COUTINHO (University of Pretoria, Pretoria - SOUTH AFRICA)

Jay Ram LAMICHHANE (INRAE, Castanet-Tolosan - FRANCE)

- 08:30 **C9.6-1 Tomato pith necrosis: A bacterial disease complex caused by endophytic pseudomonads Vittoria CATARA** (University of Catania, Catania ITALY)
- 08:50 C9.6-2 Two are worse than one, the consequences of co-infection with a Viral/Oomycete complex caused by cucumber green mottle mosaic virus and Pythium species under different environmental regimes

 Omer FRENKEL (Agriculture Research Organization, Volcani Center, Rishon Lezion ISRAEL)
- 09:05 **C9.6-3** Life history traits, coinfection and epidemiological dynamics in a parasitic complex: The case of Ascochyta blight of pea

Christophe LE MAY (Institut Agro Rennes-Angers, Rennes - FRANCE)

09:25 **C9.6-4** - Interactions of two phloem limited viruses in their host plant and vector and implications for vector fitness and epidemics

Rajagopalbabu SRINIVASAN (University of Georgia, Griffin - UNITED STATES)

- 09:40 C9.6-5 Synergism between viruses in the wheat streak mosaic disease complex in wheat Stephen WEGULO (University of Nebraska-Lincoln, Lincoln UNITED STATES)
- 10:00 C9.6-6 Synergistic relationship of Harzia ixtarensis with Colletotrichum fragariae causing anthracnose on Annona cherimola fruit in Mexico

Ramón VILLANUEVA-ARCE (Instituto Politécnico Nacional. Unidad Profesional Interdisciplinaria de Biotecnología-Laboratorio de Biotecnología Alimentaria, Ciudad De México - MEXICO)



C9.7 - Biology and paleovirology of the Caulimoviridae

Rhone 3B

Chairpersons:

Andrew GEERING (The University of Queensland, St Lucia - AUSTRALIA)
Pierre Yves TEYCHENEY (Cirad-Bios-Umr-Pvmt, Saint Pierre - REUNION)

08:30 **C9.7-1** - Charting the Interactome of cauliflower mosaic virus

James SCHOELZ (University of Missouri, Columbia - UNITED STATES)

08:50 C9.7-2 - Origin, spread and control of endogenous pararetroviruses within petunia

Gilbert CHOFONG (Julius Kühn-Institut, Federal Research Centre for Cultivated Plants, Institute for Epidemiology and Pathogen Diagnostics, Braunschweig - GERMANY)

09:05 **C9.7-3** - Diagnosis and epidemiological dynamics of cacao swollen shoot badnaviruses in west Africa: Major advances and gaps in knowledge

George A. AMEYAW (Cocoa Research Institute of Ghana, New Akim Tafo - GHANA)

09:25 **C9.7-4** - Identification and distribution of novel badnaviral sequences integrated in the genome of cacao (Theobroma Cacao)

Emmanuelle MULLER (CIRAD, Montpellier - FRANCE)

09:40 C9.7-5 - Molecular biology of rice tungro bacilliform virus (Tungrovirus Bacillooryzae): New leads to control rice tungro disease

Indranil DASGUPTA (University of Delhi South Campus, New Delhi - INDIA)

10:00 C9.7-6 - Unravelling the structure of endogenous badnaviruses of African yam shed light on the origin and diversity of yam caulimoviridae insertions

Marie UMBER (INRAE - UR ASTRO, Petit-Bourg - FRANCE)

10:30 - 11:00 | Coffee breal

Coffee break and exhibition

Place Haute

11:00 - 12:30

Closing Ceremony

Auditorium Lumière

Chairperson: Sylvie GERMAN-RETANA, SFP President (INRAE-Bordeaux Nouvelle Aquitaine, Bordeaux - FRANCE)



Closing plenary presentation
The Future of Plant Pathology in a One Health World
Monica HÖFTE (University of Ghent, Ghent - BELGIUM)

State of ISPP and Awards Ceremony

Jan E. LEACH, ISPP President (Colorado State University, Fort Collins - UNITED STATES)

Future of ISPP and Invitation to ICPP2028

Yong Hwan LEE, Incoming ISPP President

Andrew GEERING, Australasian Plant Pathology Society Vice President

Closing Remarks

Nathalie POUSSEREAU and Mathias CHOQUER, ISPP Congress Vice Presidents (University of Lyon 1, Lyon - FRANCE) Sylvie GERMAN-RETANA, SFP President (INRAE-Bordeaux Nouvelle Aquitaine, Bordeaux - FRANCE)

14:00 - 16:00

SFP General Assembly (by invitation)

Auditorium Lumière

CONFÉRENCE GRAND PUBLIC

Les plantes attaquées par des microbes nuisibles : demain nous lutterons avec des microbes bénéfiques

Auditorium Lumière

16:00 - 18:00

Animée par Marc-André Selosse (Professeur du Muséum National d'Histoire Naturelle de Paris)





La santé des plantes, d'un intérêt vital pour notre alimentation, est menacée par des microbes tels que des champignons ou des bactéries. Si l'on découvre au 19ème siècle l'origine microbienne des maladies de plantes et au 20ème siècle le premier virus sur une plante malade, aujourd'hui une toute autre image plus positive des microbes émerge. Comme l'Homme et les Animaux, les Plantes sont peuplées de microbes assurant leur santé et formant ce qu'on appelle le microbiote. Demain, les propriétés défensives du microbiote offriront des perspectives pour lutter contre les microbes indésirables.

ICPP 2023 Exhibition Booth 29

Molecular Diagnostics for Plant Health



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MONDAY 21 & TUESDAY 22 AUGUST

BIOLOGICAL CONTROL - The importance of augmentative biocontrol and plant microbiome function for plant health

P1.1-001 Microbial biological control agents (MBCAS): Consumers' friends or foes?
Bennet Rohan DEVASAHAYAM (Halle (Saale) - GERMANY)

P1.1-002 In-vitro evaluation of bioagents against claviceps fusiformis causing ergot of pearl millet Sathish KUMAR (Buldana - INDIA)

P1.1-003 Trichoderma afroHarzianum - A new pathogen in maize | Annette PFORDT (Goettingen - GERMAN)

P1.1-004 Biological control over sources of powdery mildew inoculum (Erysiphe Necator), gray rot (Botrytis Cinerea) and arm death (Diplodia Seriata), in periods of winter dormancy of Vitis vinifera | Eduardo DONOSO (Maule - CHILE)

P1.1-005 In vitro efficacy of some plant extracts on the inhibition of pectobacterium carotovorum, the causative agent of bacterial soft rot | Mahdi MIRZAEI (Tehran - IRAN (ISLAMIC REPUBLIC OF))

P1.1-006 Insight of the bacteria communities in the phyllosphere of coffea arabica CATIMOR7963 associating with geographical differences | Le LI (Haikou, Hainan - CHINA)

P1.1-007 A potential biocontrol agent for managing potato common scab in Taiwan | Tsung-Chun LIN (aichung City - TAIWAN)

P1.1-008 Application of a biocontrol agent for managing root-knot nematode, Meloidogyne graminicola Tsung-Chun LIN (Taichung City - TAIWAN)

P1.1-009 Bacillus megaterium strains isolated from rhizosphere as promising agent for biostimulants Yangseon KIM (Jeongeup - REPUBLIC OF KOREA)

P1.1-011 Designing synthetic microbial community for biotic stress mitigation in agriculture | Rashi TYAGI (New Delhi - INDIA)

P1.1-012 A lab to land experience on Trichoderma based technology for better plant health management in tribal regions of north east India | Pranab DUTTA (Umiam - INDIA)

P1.1-013 Evaluation of multi-bacillus strains on control of southern blight in pepper | Wen-Hsin CHUNG (Taichung - TAIWAN)

P1.1-014 Present status, characterization & biological control using native bacterial strains for dieback & black root rot diseases of strawberry in Pakistan | Nasir MEHMOOD (Rawalpindi - PAKISTAN)

P1.1-015 Isolation and identification of penicillium corylophilum as antibacterial-producing fungi in the soil environment of koya provin | Taha ZRARY (Koya - IRAQ)

P1.1-016 A biological agent serenade for promoting the banana growth and modifying rhizosphere soil microbial diversity and community composition | Sijun ZHENG (Kunming - CHINA)

P1.1-017 Simplicillium as the dominant mycoparasites of hemileia vastatrix revealing regional genetic diversification Le LI Haikou (Hainan - CHINA)

P1.1-018 Potential growth suppression and bacteriostatic activity of plant-associated lactic acid bacteria (LAB) against pantoea stewartii of the jackfruit bronzing disease | Khimphin CHONG (Kota Kinabalu - MALAYSIA)

P1.1-019 Induction of pepper resistance against pepper mild mottle virus by bacillus velezensis treatment Ying-Huey CHENG (Kaohsiung - TAIWAN)

P1.1-020 Prospects for the use of microbial preparations to protect fruit crops from fire blight Olga SHEMSHURA (Almaty - KAZAKHSTAN)

P1.1-021 Lecanicillium as the principal natural enemy of hemileia vastatrix displaying genetic divergence with geographic patterns and leaf symptom preferences in field sets | Le LI (Haikou, Hainan - CHINA)

MONDAY 21 & TUESDAY 22 AUGUST

P1.1-022 Reduction of pathogens causing Fusarium head blight in wheat grain by aureobasidium pullulans strains producing aureobasidin a | Urszula WACHOWSKA (Olsztyn - POLAND)

P1.1-023 Microrna expression profile reveal the regulation of E-Poly-L-Lysine on nicotiana tabacum anti-tobacco mosaic virus | He LIU (Shenyang - CHINA)

P1.1-024 Biological soil crust microalgae as a novel source for the development of biocontrol agent Hagai RAANAN (Gilat - ISRAEL)

P1.1-025 Fighting lettuce bacterial pathogens with beneficial Pseudomonas strains Antoine ZBORALSKI (Saint-Jean-sur-Richelieu - CANADA)

P1.1-026 Effects of Pseudomonas alcaliphila EJ2 on the endophytic microbiome and proteome of rice under salt stress Yuexia SHA (Yinchuan - CHINA)

P1.1-027 The impact of microbial volatile organic compounds on plant and microbiome interactions Anahita BARGHI (Busan - REPUBLIC OF KOREA)

P1.1-028 Application of antagonistic and entomopathogenic fungal consortium against Fusarium wilt and aphids of cumin Pratibha SHARMA (Jaipur - INDIA)

P1.1-029 Control of anthracnose and thrips in cucumber by bacillus subtilis with production of volatile compounds Tzu-Pi HUANG (Taichung - TAIWAN)

P1.1-030 Screening and application of induced resistance microbe for viral disease control in cucumber Mei Ju LIN (Taichung - TAIWAN)

P1.1-031 Interaction of auub 209 (streptomyces enissocaesilis) and audt 626- (Streptomyces Racemochromogenes) rhizobacteria and sclerotium rolfsii root rot pathogen on relative expression of defence related genes in soybean through QRT-PCR | Jahagirdar SHAMARAO (Dharwad - INDIA)

P1.1-032 Characterising and harnessing the haematococcus algal microbiome - Towards biocontrol of the fungal pathogen paraphysoderma sedebokerense | Jeanne MIEBACH (Paris - FRANCE)

P1.1-033 Characterization of the mode of action of a biocontrol product through the pathosystem tomato micro-tom and Phytophthora infestans | Valentin PENAUD (Mont-Saint-Aignan - FRANCE)

P1.1-034 Characterization and identification of Fusarium spp. Species that affect orange crops (Citrus X Sinensis L.) In Chile María Alejandra GARZÓN NIVIA (Santiago - CHILE)

P1.1-035 Saprobic conidial fungi from the southern amazon in the in vitro control of phytopathogens Solange Maria BONALDO (Sinop - BRAZIL)

P1.1-036 Black soldier fly (hermetia illucens) frass preparations with antagonism against phytopathogenic fungi Fusarium oxysporum and ganoderma boninense | Martin ZORRILLA (Singapore - SINGAPORE)

P1.1-037 Exploring the feasibility of biocontrol using streptomyces strains against soybean phytopathogenic fungi Su In LEE (Jinju-Si - REPUBLIC OF KOREA)

P1.1-038 Metatranscriptomic analyses reveal fungal functional genes with possible roles in the interactions among dominant fungal genera during noble rot development of grapes | Margot OTTO (Eger - HUNGARY)

P1.1-039 Determining the microbiota contribution on crop performance by coupling in situ and in vitro approaches Rosa KEMMERLING Le Rheu Cedex FRANCE

P1.1-040 Study on phenolic substances in poplar anthracnose | Linxuan ZHANG (Beijing - CHINA)

P1.1-041 Harnessing the inner beast: development of biocontrol agents for sweet acacia (vachellia farnesiana) Amelia LIMBONGAN (Merauke - INDONESIA)

P1.1-042 Action of Pythium oligandrum on grapevine trunk diseases and its impact on microbial communities Séverine LOPEZ (Villenave-D'ornon - FRANCE)

P1.1-043 Dynamics of microbiota and Fusarium spp. Responsible for Fusarium head blight and implications for biocontrol strategies | Toan Bao Hung NGUYEN (Plouzané - FRANCE)

P1.1-044 Selection of native Trichoderma isolates obtained from banana rhizospheric soil in the canary islands for the control of Fusarium oxysporum F. SP. Cubense (STR4) | Raquel CORREA-DELGADO (San Cristóbal De La Laguna - SPAIN)



MONDAY 21 & TUESDAY 22 AUGUST

P1.1-045 Using bacteriophages as evolutionary tools to control bacterial wilt disease: plant transcriptomic response to phage-resistant bacteria | Sara FRANCO ORTEGA (York - UNITED KINGDOM)

P1.1-046 Efficacy of biopesticide LIFEGARD® WG for controlling plasmopara viticola and erisiphe necator in European grapevine (Vitis Vinifera) | Angela PAUL (Geneva - UNITED STATES)

P1.1-047 Response of cucumber phyllosphere microbiome to the application of synthetic and environmentally friendly fungicides in managing powdery mildew | Ping-Hu WU (Taipei - TAIWAN)

P1.1-049 Groel protein from the potential biocontrol agent rhodopseudomonas palustris enhances resistance to rice blast disease | Yue CHEN (Changsha - CHINA)

P1.1-050 Management of almond canker diseases with the biocontrol agent Trichoderma atroviride strain SC1 in California Rosa JAIME FRIAS (Parlier - UNITED STATES)

P1.1-051 Effect of additional arbuscular mycorrhizal fungi (amf) application into planting hole for ganoderma disease management in oil palm plantation | Normahnani MD NOH (Selangor - MALAYSIA)

P1.1-052 Screening biocontrol agents for cash crop Fusarium wilt based on fusaric acid tolerance and antagonistic activity to Fusarium oxysporum | Qinggang GUO (Baoding - CHINA)

P1.1-053 A natural metabolite, rejuagro, to control apple fire blight, citrus canker, and citrus greening diseases Ching-Hong YANG (Milwaukee - UNITED STATES)

P1.1-054 Field epidemiology of an obligate biotrophic plant pathogen in the context of classical biological weed control Isabel ZEIL-ROLFE (Canberra - AUSTRALIA)

P1.1-055 Biocontrol activity against soil-borne plant pathogens by bacillus SPP | Jin, Tong CHEN (Yunlin - TAIWAN)

P1.1-056 Self-resistance mechanisms during the biosynthesis of antimicrobial n-oxide phenazine in lysobacter antibioticus Yangyang ZHAO (Nanjing - CHINA)

P1.1-057 Doping in p. Radiata: can plant growth promoting bacteria enhance morpho-biochemical traits Frederico LEITÃO (Aveiro - PORTUGAL)

P1.1-058 Diversity of nodule-inhabiting bacteria associated with cultivars of pisum sativum and their biocontrol potential against aphanomyces euteiches | Adrien GAUTHIER (Mont-Saint-Aignan - FRANCE)

P1.1-059 Metatranscriptomic analyses of grapes reveal differences in expressed functional genes of filamentous and yeast fungi during noble rot and grey rot | Margot OTTO (Eger - HUNGARY)

P1.1-060 In vitro characterization of pichia membranaefaciens for postharvest biocontrol of Monilinia fructicola Elissa LARCO TERÁN (Metropolitan Region - CHILE)

P1.1-061 Enhanced biological control against acremonium acuatum and trichotecium roseum on grapefruits by application of bacillus velezensis MWS28 with sodium alginate | Kyungseok PARK (Ansung - REPUBLIC OF KOREA)

P1.1-062 Biological control efficacy by antagonistic bacteria on postharvest diseases caused by Botryosphaeriaceae fungi family | Lucía GUIRADO MANZANO (Málaga - SPAIN)

P1.1-063 The rapid decline of the invasive species ailanthus altissima under the challenge of Verticillium dahliae: A physiochemical study | Cristina NALI (Pisa - ITALY)

P1.1-065 Biological control of ZymoSeptoria tritici in wheat | Hans Jørgen Lyngs JØRGENSEN (Frederiksberg C - DENMARK)

P1.1-066 Can wild brassicaceae defense compounds enhance the antagonistic effect of seed-borne fungi against alternaria brassicicola? I Thomas LERENARD (Beaucouze - FRANCE)

P1.1-067 The microbiome of tuta absoluta, in search of a bio-control method | Adebola Azeez LATEEF (Ilorin - NIGERIA)

P1.1-068 Multifunctional beneficial bacteria from the tomato endophytome and their biocontrol activity Daniele NICOTRA (Catania - ITALY)

P1.1-070 Nematicidal activity of a bacterial control agent against clover cyst nematode Hyoung-Rai KO (Wanju - REPUBLIC OF KOREA)

P1.1-071 Epigenetic changes in tomato plants modulated by soil microbiomes | Myoungsub KIM (Busan - REPUBLIC OF KOREA)

P1.1-072 Resistant kiwifruit species of hayward can beneficiation flavobacterium to suppress bacterial canker pathogens | Lili HUANG (Yangling - CHINA)

MONDAY 21 & TUESDAY 22 AUGUST

P1.1-073 Effects of beneficial microbes on disease resistance in tomato plants | Pi-Fang Linda CHANG (Taichung City - TAIWAN)

P1.1-074 Evaluation of several arbuscular mycorrhizal fungi products on growth and tolerance of oil palm seedlings against basal stem rot disease caused by ganoderma boninense | Afnan Shazwan NASARUDDIN (Banting - MALAYSIA)

P1.1-075 Recovery of metagenome-assembled genomes from the phyllosphere of 110 rice genotypes | Yong LIU (Changsha - CHINA)

P1.1-076 A bacterial protein rhp-psp modulates plant auxin production and alters leaf metabolites composition to implement mutualistic interaction with plant | Pin SU (Changsha - CHINA)

P1.1-077 Microbiota interactions and assembly on rice leaf | Qianze PENG (Haikou - CHINA)

P1.1-078 Antifungal chemical compounds of Trichoderma isolates against the incitants of calonectria leaf blight of eucalyptus Ratnaboli BOSE (Dehradun - INDIA)

P1.1-079 Increased production and use of inosine by spontaneous variation in paenibacillus polymyxa E681 Younmi LEE (Andong - REPUBLIC OF KOREA)

P1.1-081 Sodium alginate bioencapsulation formulation on the efficacy of bacillus SP. As biological control against phytopathogen Mochammad Mirza SAPUTRA (Surabaya - INDONESIA)

P1.1-082 Identification and characterization of brevibacillus halotolerans B-4359: A potential antagonistic bacterium against red pepper anthracnose in Korea I Yongho JEON (Andong-Si - REPUBLIC OF KOREA)

P1.1-083 Endophytes from halophytes: A source of beneficial microbes for a sustainable agriculture Emmanouil MARKAKIS (Heraklion, Crete- GREECE)

P1.1-084 Biocontrol potential of bjerkandera adusta and sistotrema brinkmannii against Heterobasidion SPP. Primary infections | Darta KLAVINA (Salaspils - LATVIA)

P1.1-085 Identification of a streptomyces specialized metabolite involved in antifungal activity, plant defense stimulation and bacteria fitness in the rhizosphere | Clément NICOLLE (Auzeville - FRANCE)

P1.1-086 Biological control efficacy of chinese cabbage clubroot caused by Plasmodiophora brassicae Joohee NAM (Gwangju-Si - REPUBLIC OF KOREA)

P1.1-087 Plant genotype specific modulation of Clonostachys rosea-mediated biocontrol of Septoria tritici blotch disease on wheat | Sidhant CHAUDHARY (Uppsala - SWEDEN)

P1.1-088 Multi-transcriptome analysis to elucidate the flavobacterium-mediated suppression of bacterial wilt and the causative bacterium | Soon-Kyeong KWON (Jinju - REPUBLIC OF KOREA)

P1.1-089 Evaluating new Erwinia phages as biocontrol tools against fireblight disease in fruit trees Clara TORRES-BARCELÓ (Montfavet - FRANCE)

P1.1-090 Sporulation potential, dispersal gradient and mycelium growth in coniferous wood of the biocontrol agent phlebiopsis gigantea | Keitlina KRASTINA (Salaspils - LATVIA)

P1.1-091 Effect of bioactive metabolites of native strain of Trichoderma Harzianum for management of major foliar diseases of maize in Meghalaya, India | Madhusmita MAHANTA (Umiam- INDIA)

P1.1-092 Microalga-antifungal bacteria synergistic effect on plant pathogenic fungi and king's strawberry quality Kim MIN-JEONG (Wanju - REPUBLIC OF KOREA)

P1.1-093 Experimental evolution to study the adaptation of plant-beneficial pseudomonads to insects Maria ZWYSSIG (Zürich - SWITZERLAND)

P1.1-094 Characterization of pepper-microbiome for identification of putative biocontrol agents against Fusarium species Lourena MAXWELL (Shanhua - TAIWAN)

P1.1-095 Dissection of the endophytic and rhizospheric microbiomes of atractylodes lancea of different origins and verification of microbe functions on A. Lancea | Sheng WANG (Beijing - CHINA)

P1.1-096 Efficacy of bca's and pri's for the control of potato early blight and potato late blight | Marian POLDMETS (Tartu - ESTONIA)

P1.1-097 Investigation of pti activation following the perception of an elicitor combination, in Arabidopsis Thaliana Lisa CABRE (Saint-Malo - FRANCE)

P1.1-098 Effects of bioinoculants and organic soil amendments on nematode composition of apple orchards Expedito OLIMI (8010 Graz - AUSTRIA)

P1.1-099 In vivo and in vitro antifungal activity and molecular mechanism of dimethyl trisulfide against Colletotrichum gloeosporioides from mango | Lihua TANG (Nanning - CHINA)



MONDAY 21 & TUESDAY 22 AUGUST

P1.1-100 Exploring soybean and sunflower microbiomes for beneficial bacterial microorganisms

Neo HLONGWANE (Bloemfontein - SOUTH AFRICA)

P1.1-101 A consortium of beneficial microorganisms alters the rhizosphere microbiome and impacts plant performance differently in contrasting growing seasons | Rita GROSCH (Großbeeren - GERMANY)

P1.1-102 Evaluation of Trichoderma SPP. Oil palm endophyte on the in vitro growth of Phytophthora palmivora Sandra CASTILLO (Bogota - COLOMBIA)

P1.1-103 Mechanisms of action of akanthomyces lecanii on peanut rust: ultrastructural investigations Tounwendsida Abel NANA (Ouagadougou - BURKINA FASO)

P1.1-104 Effect of co-inoculation of pine seedlings with tricholoma sp and/or streptomyces on Heterobasidion pathogenesis and host growth | Hafiz Umair Masood AWAN (Helsinki - FINLAND)

P1.1-105 In vitro evaluation of fungal endophytes of rosemary (Rosmarinus Officinalis) against Diplodia bulgarica Cafer EKEN (Aydin - TURKEY)

P1.1-106 Investigating the involvement of tomato rhizobacteria in resistance to bacterial wilt Jaehyo PARK (Seoul - REPUBLIC OF KOREA)

P1.1-107 Bioformulation of phylloplane Pseudomonas spp. For management of sheath blight disease of rice (Oryza Sativa) Shamima AKTER (Gazipur - BANGLADESH)

P1.1-108 Screening of various microorganisms that inhibit the growth of Erwinia amylovora, the causative agent of fire blight of fruit crops | Elvira ISMAILOVA (Almaty - KAZAKHSTAN)

P1.1-109 Mycoviroids have potential to control crop fungal diseases | Wenxing XU (Wuhan - CHINA)

P1.1-110 When competitors join forces: Using consortia of entomopathogenic Pseudomonas bacteria, nematodes and fungi for pest control | Anna SPESCHA (Zürich - SWITZERLAND)

P1.1-111 Inhibition of acrab-tolc enhances antimicrobial activity of phytochemicals in pectobacterium brasiliense Iris YEDIDIA (Rishon Lezion - ISRAEL)

P1.1-112 Study to identify the biocontrol of cuscuta campestris | Loise KIOKO (Kakamega - KENYA)

P1.1-113 Exploring the efficacy of plant extracts in vitro against mango anthracnose pathogen: Colletotrichum gloeosporioides Latif ZOHAIB (Multan - PAKISTAN)

P1.1-114 Towards a monitoring of biocontrol agents: new tools for a better understanding of their establishment in the environment | Camille JOLLARD (Boigneville - FRANCE)

P1.1-115 Antagonistic effect of Trichoderma species against pathogenic fungi associated with quercus suber decline in Tunisia Islem YANGUI (Sousse - TUNISIA)

P1.1-116 Investigating changes in the root microbiota in response to rice's cry for help under different foliar pathogen attacks Léa JOBERT (Montpellier - FRANCE)

P1.1-117 Secondary metabolites of insect symbionts and their antimicrobial activity | Yinglao ZHANG (Hefei - CHINA)

P1.1-118 Assessing the antagonistic potential and biocontrol efficacy of rice-associated bacteria against Magnaporthe oryzae Abalo Itolou KASSANKOGNO (Bobo Dioulasso - BURKINA FASO)

P1.1-119 What makes a compost suppressive to soilborne pathogens? | Pascale FLURY (Basel - SWITZERLAND)

P1.1-120 Environmental conditions affect Puccinia punctiformis teliospore longevity

Almendra ASTETE FARFAN (Fort Collins - UNITED STATES)

P1.1-121 Disease-induced changes in soybean mycobiome determine plant health | Yao ZHAO (Nanjing - CHINA)

P1.1-122 Biocontrol effects of rhizobacteria producing volatile-organic compounds and cylcolipopeptides against the major pathogen fungi of wheat | Claire PRIGENT-COMBARET (Villeurbanne - FRANCE)

P1.1-123 A seed endophytic Trichoderma sp. Protects the wheat plant against infection caused by the fungal wheat pathogen ZymoSeptoria tritici | Amir MIRZADI GOHARI (Dublin - IRELAND)

P1.1-125 Exploiting biodiversity in perennial crops: effect of mycorrhizal based products on the vineyard rhizosphere Tito CAFFI (Piacenza - ITALY)

P1.1-126 Occurrence of natural populations of entomopathogenic nematode steinernema feltiae in cereal fields of southeast idaho | Pooria ENSAFI (Idaho Falls - UNITED STATES)

MONDAY 21 & TUESDAY 22 AUGUST

P1.1-127 Use of Pseudomonas rhizobacteria as biohebicides for protecting crops against broomrapes

Tristan LURTHY (Villeurbanne - FRANCE)

P1.1-128 Use of natural compounds with low environmental impact for the protection of seed-bearing onion against fungal diseases | Gianfranco ROMANAZZI (Ancona - ITALY)

P1.1-129 Evaluation of essential oils of local aromatic plants against chickpea blight in Pakistan Muhammad ABID (Mutan - PAKISTAN)

P1.1-130 Does the bacterial symbiont frankia modulate plant defences of alnus against the phytopathogen Phytophthora? Mathilde VINCENT (Villeurbanne - FRANCE)

P1.1-131 Harnessing potential endophytic fungi to develop biological solutions to manage bydv & aphid vectors in spring barley Simranjit KAUR (Carlow - IRELAND)

P1.1-132 Evaluation of the pathogenicity of entomopathogenic nematodes isolated in Taiwan against fall armyworm Emilia PINI (Taipei - TAIWAN)

P1.1-133 Synergism of Trichoderma genotypes for management of Fusarium wilt in tomato | Abdul HANNAN (D.g. Khan - PAKISTAN)

P1.1-134 Management of adult and immature large pine weevil (Hylobius Abietis L.) Using novel local-provenance entomopathogenic fungi and commercial entomopathogenic nematodes | Luis QUINZO-ORTEGA (Liverpool - UNITED KINGDOM)

P1.1-135 Production and activity of rhizobacterial antimicrobial-volatiles strongly depend on culture conditions Faheem Uddin RAJER (Tandojam - PAKISTAN)

P1.1-136 Efficacy of botanicals against brown leaf spot of rice caused by bipolaris oryzae Hafiz Muhammad Usama SHAHEEN (Faisalabad - PAKISTAN)

P1.1-137 Trichoderma species interaction with Fusarium oxysporum pv lycopersici and induced resistance in tomato Muhammad MUSA (Lahore - PAKISTAN)

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P1.1-149 Unleashing cryptic chemistries from the beneficial microbe Trichoderma hamatum hepa Said EL-HASSAN (Coventry - UNITED KINGDOM)

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P1.2-007 Understanding the role of wrky1 transcription factor in plant resistance to geminivirus infection Xiuling YANG (Beijing - CHINA)

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P1.2-010 Effect of physalis rugose mosaic virus (phyrmv) and groundnut ringspot virus (GRSV), in single and double infections, on the development, production, and postharvest fruits parameters of physalis peruviana plants

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P1.2-013 Pathogen-triggered metabolic adjustments to potato virus y infection in potato Hanumantha PAPPU (Pullman - UNITED STATES)

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P1.2-033 Spitfire - screening of pisum sativum accessions for pnydv resistance | Shin-Yee TAN (Braunschweig - GERMANY)

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P1.2-037 Grapevine fanleaf virus avirulence factor 2ahp (homing protein) interacts with several proteins of nicotiana occidentalis involved in plant immunity | Mailys PIAU (Colmar - FRANCE)

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P1.3-006 The impact of low-temperature plasma on secondary metabolites and antioxidant enzymes in different half-sib families of pinus sylvestris seeds leva | CESNIENE (Kaunas - LITHUANIA)

P1.3-007 Disease resistance screening in a sugarcane plant breeding programme: can we do things differently? Richard S RUTHERFORD (Durban - SOUTH AFRICA)

P1.3-008 Identification of leaf rust resistance genes in wheat cultivars from gansu province in China Shelin JIN (Lanzhou - CHINA)

P1.3-009 Development of tests for resistance/tolerance to viral yellows in sugar beet | Valérie CADOT (Beaucouzé - FRANCE)

P1.3-011 Developing a disease screening pipeline for resistance to Fusarium head blight of wheat Lindy ROSE (Cape Town - SOUTH AFRICA)

P1.3-012 Feeding behavior of sharpshooter vectors of Xylella fastidiosa and emission of volatile compounds explain resistance to leaf scald disease in plum genotypes in Brazil | Heloisa THOMAZI-KLEINA (Curitiba - BRAZIL)

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P1.3-014 A novel resistance pathway in n-gene tobacco against tmv identifies an old inhibitor and an earlier function Eseul BAEK (Jeonju - REPUBLIC OF KOREA)

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Laura ROEHRIG (Edinburgh - UNITED KINGDOM)

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P1.3-027 Profiling molecular responses of nicotiana glutinosa to infection with lettuce necrotic yellows virus subgroups to understand virus dispersal | Colleen HIGGINS (Auckland - NEW ZEALAND)

P1.3-028 The role of dormancy-associated (drm) disordered proteins in plant - pathogen interactions Marion WOOD (Auckland - NEW ZEALAND)

P1.3-029 Evaluation of Greek olive cultivars for susceptibility to fomitiporia mediterranea Emmanouil MARKAKIS (Heraklion - GREECE)

P1.3-030 Here comes the sun! an inner nuclear envelope protein that regulates plant nuclear dynamics and transcriptional stress responses against pathogens | Divya CHANDRAN (Faridabad - INDIA)

P1.3-031 Characterization of olive fruit resistance to Colletotrichum godetiae | Anabel EXPOSITO DIAZ (Cordoba - SPAIN)

P1.3-033 A dead-box rna helicase regulates iron homeostasis and immune response in Arabidopsis Yingying XING (Beijing - CHINA)

P1.3-034 Differential response of sugar beet genotypes to the local and systemic beet curly top iran virus infection: virus accumulation and transcriptome assay in resistant and susceptible genotypes | Omid EINI (Göttingen - GERMANY)

P1.3-035 The rice HVA22 proteins in rice immunity | Jun LIU (Beijing - CHINA)

P1.3-036 Changes in terpene profiling of pinus pinaster and P. RAdiata in response to wounding and infection with Fusarium circinatum | David FARIÑA FLORES (Madrid - SPAIN)

P1.3-037 Combined transcriptional and metabolic profiling to determine phytohormone response in pinus-Fusarium circinatum interaction | Laura HERNANDEZ-ESCRIBANO (Madrid - SPAIN)

P1.3-038 Intraspecific diversification of pathogen defence signalling in the wild tomato species solanum chilense Remco STAM (Kiel - GERMANY)

P1.3-039 Hlb tolerance is associated with enhanced carbohydrate dynamics in the leaves, upregulation of defense activators, and preservation of xylem connectivity | Jacobo ROBLEDO (Lake Alfred - UNITED STATES)

P1.3-040 Avocado sunblotch viroid: the smallest avocado pathogen causing big changes in host gene expression Melissa JOUBERT (Pretoria - SOUTH AFRICA)

P1.3-041 Epidemiology and molecular characterization of a newly emerging monopartite begomovirus in South Africa, capable of inducing severe symptoms in commercial tomato cultivars with multiple ty resistance genes
Lindy ESTERHUIZEN (Pretoria - SOUTH AFRICA)

P1.3-042 Breeding for resistance against phomopsis husk rot disease in the Australian macadamia orchards Vivian RINCON FLOREZ (Brisbane - AUSTRALIA)

P1.3-043 Resistance and response to Fusarium head blight disease in pigmented wheat genotypes | Linda FELICI (Viterbo - ITALY)

P1.3-044 Evaluation of soybean genotypes for response to coniothyrium glycines, the cause of red leaf blotch Sprine MISIANI (Nairobi - KENYA)

P1.3-045 Detecting biochemical change in cassava leaf spot tissues caused by curvularia lunata hc-04 by using synchrotron fourier-transform infrared spectroscopy | Hoang NGUYEN HUY (Nakhon Ratchasima - THAILAND)

P1.3-046 Influence of salicylic acid on enzyme activity to control anthracnose disease in cassava by in vitro and in vivo studies Rungthip SANGPUEAK (Nakhon Ratchasima - THAILAND)

P1.3-047 Genome-wide association analysis identifies resistance loci for bacterial blight in diverse East African rice germplasm Moses OKELLO (Kampala - UGANDA)

P1.3-048 Treatments with a volatile organic compound cause metabolic changes in grapevine leaves against downy mildew Sara AVESANI (San Michele All'adige (Tn) - ITALY)

P1.3-049 Cloning and mechanism analysis of adult plant resistance genes to rust in wheat | Caixia LAN (Wuhan - CHINA)

P1.3-051 Immunity modulation by distinct rhizosphere microbiota in rice under nitrogen supply Mehwish ROY (Gyeongsan, Gyeongbuk, Korea - REPUBLIC OF KOREA)



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P1.3-053 Characterization of hormonal responses in two clones of cupresuss sempervirens with differential susceptibility to seiridium cardinale | Giulia SCIMONE (Pisa - ITALY)

P1.3-054 Evaluation of resistance and presence of secondary metabolites in almond cultivars during infection by the wilt fungus Verticillium dahliae | Aliki TZIMA (Athens - GREECE)

P1.3-055 Identification of new sources of resistance to bacterial spot and bacterial canker in wild tomato varieties Shatrupa RAY (Rishon Letsiyon - ISRAEL)

P1.3-056 The plant immune system of ferns and liverworts | Baptiste CASTEL (Auzeville-Tolosane - FRANCE)

P1.3-057 Identification of plant genotype dependent microbiome recruitment associated with disease resistance against root rot in peas | Valentin GFELLER (Frick - SWITZERLAND)

P1.3-058 Candidatus liberibacter asiaticus attenuates phloem defense responses to allow its propagation and movement in citrus | Amit LEVY (Lake Alfred - UNITED STATES)

P1.3-059 ATNPR1 Boosts the basal immune responses and enhances tolerance to liberibacter infection in citrus Poulami SARKAR (Lake Alfred - UNITED STATES)

P1.3-060 Gene co-expression networks based on tolerant and susceptible transcriptome enable a broad view of plant responses to differing pathogens | Marie-Anne VAN SLUYS (Sao Paulo - BRAZIL)

P1.3-061 Performance of commercial varieties against Phytophthora sojae | Pablo GRIJALBA (Caba - ARGENTINA)

P1.3-062 Functional analysis of sugar transporters in grape upon Botrytis cinerea infection Benoit MONNEREAU (Poitiers - FRANCE)

Mycotoxin producing fungi and their management: a serious challenge to attain the One Health goals

P1.4-001 Case studies of mycotoxin contamination in organic maize stored and milled by smallholder farmers in southwest France | Jean-Michel SAVOIE (Villenave D'ornon - FRANCE)

P1.4-002 Encapsulated essential oils in mesoporous silica nanoparticles to control Fusarium avenaceum and its enniatins production | Jean-Michel SAVOIE (Villenave D'ornon - FRANCE)

P1.4-003 Investigation of the effective inhibition of don production by botanical compounds la and meja and their inhibition mechanism | Jing GAO (Nanjing - CHINA)

P1.4-004 Population genetic structure of pathogens causing Fusarium crown rot and its mycotoxin contamination of wheat in China I Hao ZHANG (Beijing - CHINA)

P1.4-005 Endoplasmic reticulum-mitochondria encounter structures (ermes) regulate energy metabolism: a new drug target for pathogenic fungi? | Jichang SONG (Nanjing - CHINA)

P1.4-006 Efforts to develop management strategies for the aflatoxin contamination of hazelnut in Azerbaijan Alejandro ORTEGA-BELTRAN (Ibadan - NIGERIA)

P1.4-007 The occurrence and control of ochratoxin a from postharvest diseases | Fuguo XING (Beijing - CHINA)

P1.4-008 Fusarium pseudograminearum glycoxal oxidase gene fpgglx functions in the virulence and mycotoxin reduction caused by the mycovirus FPGMBV1 | Honglian LI (Zhengzhou - CHINA)

P1.4-009 Unraveling th host-selective toxic interaction of cassiicolin with lipid membranes and its cytotoxicity Bao Quoc NGUYEN (Ho Chi Minh - VIETNAM)

P1.4-010 Post-harvest sustainable strategies to reduce mycotoxins contamination and pest infestation in chickpea (Cicer Arietinum L.) stored seeds | Samuele RISOLI (Pisa - ITALY)

P1.4-011 Quest for Fusarium: a sampling strategy to predict the risk of contamination in irish cereal crops Diana BUCUR (Carlow - IRELAND)

P1.4-012 Resistance to Fusarium head blight in wheat: influence of the fungal mycotoxin profile Diana MNGOMEZULU (Bloemfontein - SOUTH AFRICA)

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P1.4-013 Efficacy of the Aspergillus flavus atoxigenic strain technology to reduce risks of aflatoxin contamination in commercial tree nut orchards in California | Ramon JAIME (Parlier - UNITED STATES)

P1.4-014 Displacement of aflatoxin producing fungi by an Aspergillus flavus atoxigenic biocontrol in commercial almond orchards in several areas of California | Ramon JAIME (Parlier - UNITED STATES)

P1.4-016 Developing potential biocontrol against mycotoxigenic fungi of cereals | Vijay Kumar SHARMA (Rishon Lezion - ISRAEL)

P1.4-017 New challenges in the apple chain due to mycotoxin producing fungi and mycotoxins Paola BATTILANI (Piacenza - ITALY)

P1.4-018 Potential for aflatoxin B1 and B2 production by Aspergillus flavus strains isolated from bambara groundnut (Vigna Subterranea (L.) Verdcourt) seeds produced in Burkina Faso | S. Amidou OUILI (Ouagadougou - BURKINA FASO)

P1.4-019 Identifying sorghum grain fungal colonisers, quantification of mycotoxins and development of weather-based predictive models for Fusarium graminearum | Thabiso MASISI (Bloemfontein - SOUTH AFRICA)

P1.4-020 Occurrence of Fusarium spp. in german oat fields - results from a three year monitoring Charlotte RODEMANN (Göttingen - GERMANY)

P1.4-021 The proteomes that feed the world | Sophia HEIN (Freising - GERMANY)

P1.4-022 Combating aflatoxin exposure risks through conservation agriculture | Juliet AKELLO (Kampala - UGANDA)

P1.4-023 Mycotoxin producing Fusarium species in estonian grasslands and silage | Britt PUIDET (Tartu - ESTONIA)

P1.4-024 Fusarium culmorum produces NX-2 toxin simultaneously with deoxynivalenol and 3-ACETYL-Deoxynivalenol or nivalenol | Simon SCHIWEK (Brunswick - GERMANY)

P1.4-025 Seasonal prevalence of aflatoxin and strategies for mitigation in the groundnut, maize and sorghum value chains in Uganda | George MAHUKU (Kampala - UGANDA)

P1.4-026 Mycotoxin exposure in foods eating by vegans and vegetarians: evaluating the current risk assessment Avice HALL (Hatfield - UNITED KINGDOM)

P1.4-027 Modelling the effect of weather on deoxynivalenol contamination in Swedish spring cereals using machine learning algorithms | Katarzyna MARZEC-SCHMIDT (Skara - SWEDEN)

P1.4-028 Alternaria species: a "from farm to fork" phytopathological and toxicological global concern in mediterranean area Mario MASIELLO (Bari - ITALY)

Bioinvasion in the urban environment: pathways, early warning, mitigation measures, institutional frameworks and policy implementation

P1.5-001 Biosecurity surveillance for early detection of invasive species in urban forests in australia Angus CARNEGIE (Parramatta - AUSTRALIA)

P1.5-003 Monitoring emerging pathogens in horse chestnut trees across Europe and their correlation to the leaf miner infestation | Yasin KORKMAZ (Freiburg - GERMANY)

P1.5-004 Prevalence of asav-infected flowering ash (f. ornus) trees of two german metropoles | Kira KÖPKE (Berlin - GERMANY)

P1.5-005 A diverse range of Phytophthora species recovered from two South African botanical gardens Trudy PAAP (Pretoria - SOUTH AFRICA)

P1.5-006 Diversity of Phytophthora communities in a sentinel arboretum in southern Italy | Federico LA SPADA (Catania - ITALY)

P1.5-007 Smart urban forest monitoring: a project for remote sensing detection and early warning in forest trees Antonio TIBERINI (Roma - ITALY)

P1.5-008 The novi sad poplar tree die-back and decay linked to Fusarium solani, graphium penicillioides, and cyclocybe aegerita Milutin DJILAS (Novi Sad - SERBIA)

P1.5-009 Pestalotopisis tujae associated with arborvitae tip blight in nurseries, urban and rural environments in Serbia Milutin DJILAS (Novi Sad - SERBIA)



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P1.6-002 Validation of a Ascochyta rabiei detection method on chickpea seeds | Isabelle SERANDAT (Beaucouzé - FRANCE)

P1.6-003 Brazilian pcr testing in crop seeds | Thiago Costa FERREIRA (Lagoa Seca - BRAZIL)

P1.6-004 Use of basic substances and potential basic substances for the control of seedborne pathogens Gianfranco ROMANAZZI (Ancona - ITALY)

Molecular drivers of plant bacterial interactions

P2.1-001 Increasing the resilience of plant immunity to a warming climate | Sheng-Yang HE (Durham - UNITED STATES)

P2.1-002 The Ralstonia pseudosolanacearum type iii effector ripl delays flowering and promotes susceptibility to pathogen in plants | Wanhui KIM (Seoul - REPUBLIC OF KOREA)

P2.1-003 SSTF, a novel sulforaphane sensing transcription factor of Xanthomonas campestris, is required for sulforaphane tolerance and virulence | Fengquan LIU (Nanjing - CHINA)

P2.1-004 Identification of genes required for ptr1-mediated immunity in nicotiana benthamiana Diana Carolina MAZO MOLINA (Ithaca - UNITED STATES)

P2.1-005 A novel Pseudomonas cyclic lipopeptide induces plant immunity through cell wall perception and cytoplastic signaling Hailei WEI (Beijing - CHINA)

P2.1-006 A ubiquitin family protein plays a role in the pathogenicity of acidovorax citrulli | Dafna TAMIR-ARIEL (Rehovot - ISRAEL)

P2.1-007 Dual rna-sequencing of chili pepper cultivars and Xanthomonas euvesicatoria pv. euvesicatoria causing bacterial leaf spot (BLS) | Desi UTAMI (Queensland - AUSTRALIA)

P2.1-008 Nicotiana benthamiana as a surrogate host of two plant-pathogenic clavibacter species In Sun HWANG (Seoul - REPUBLIC OF KOREA)

P2.1-009 Comparison of the signal transduction efficiency in the vfm quorum sensing system of the genus Dickeya according to the polymorphism of the vfm genes | Sarah YAMMINE (Montpellier - FRANCE)

P2.1-010 A putative multi-sensor hybrid histidine kinase, baraac, inhibits the expression of the type III secretion system regulator hrpg in acidovorax citrulli | Tingchang ZHAO (Haidian District - CHINA)

P2.1-011 DDI1 - a novel regulator of the 26s proteasome and immunity in plants | Margot RAFFEINER (Bochum - GERMANY)

P2.1-012 Processing bodies: novel regulators of plant immunity targeted by bacterial effectors Manuel GONZALEZ-FUENTE (Bochum - GERMANY)

P2.1-013 Analysis of psa effector and actinidia immunity genes | Markéta VLKOVÁ (Tübingen - GERMANY)

P2.1-014 Evaluation of defense induction in grapevine plants (Vitis vinifera I.) by Pseudomonas protegens, through QPCR. Braulio RUIZ (Chillán - CHILE)

P2.1-015 Characterization of differential colonization abilities of Pseudomonas amygdali pv. lachrymans, the causal agent of cucumber bacterial diseases | Tingchang ZHAO (Haidian District - CHINA)

P2.1-016 Type III-Secreted effectors and toxins play a tissue-specific role in the pathogenicity of Pseudomonas syringae PV syringae | Ziyue ZENG (Cambridge - UNITED KINGDOM)

P2.1-017 Chemotaxis and aerotaxis are required for plant infection of Pseudomonas syringae PV. TABACi 6605 Yuki ICHINOSE (Okayama - JAPAN)

P2.1-019 Contact dependent inhibition in Ralstonia pseudosolanacearum | Rekha GOPALAN NAIR (Tübingen - GERMANY)

P2.1-020 QTL-Bound tales: bacterial effector association with resistance quantitative trait loci of oryza sativa Jacob SHARKEY (Dusseldorf - GERMANY)

P2.1-021 Flavonoids and fatty acids, key metabolites in Pseudomonas syringae development on cherry shoots Diana VINCHIRA-VILLARRAGA (Birmingham - UNITED KINGDOM)

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P2.1-022 Characterizing environmental sensing mechanisms in Dickeya dadantii

Juliana GONZALEZ-TOBON (Ithaca - UNITED STATES)

P2.1-023 The Xanthomonas type iii effector nudx4 is an nadh/adp-ribose pyrophosphorylase that manipulates plant immunity Baodian GUO (Nanjing - CHINA)

P2.1-024 A micro- and macro-perspective of bacterial pathogens affecting onion in georgia, USA Bhabesh DUTTA (Tifton - UNITED STATES)

P2.1-025 Characterization of the infection process in bacterial rice blight by Xanthomonas oryzae PV. ORYZAE Nora R. ZÖLLNER (Düsseldorf - GERMANY)

P2.1-026 Development of a soil inoculation method coupled with blocker-mediated 16S RRNA gene amplicon sequencing reveals the effect of antibacterial T6SS on agrobacteria tumorigenesis and gallobiome composition Si-Chong WANG (Taipei - TAIWAN)

P2.1-027 Gene expression profiling in soils of Dickeya dadantii, a causal pathogen of quick decline disease of fruit trees Takashi FUJIKAWA (Tsukuba - JAPAN)

P2.1-028 Elucidating the role of the 'Candidatus Phytoplasma mali' protein pme10 during photosynthesis and symptom development of apple proliferation disease | Simone EGGER (Pfatten - ITALY)

P2.1-029 Type III effectors of Pseudomonas syringae regulate the nlr transcripts' stability by triggering UPF3 degradation in Arabidopsis | Eunji LEE (Busan - REPUBLIC OF KOREA)

P2.1-030 The secreted serine protease chpg of clavibacter michiganensis acts as a host specificity determinant that restricts it from eggplants | Doron TEPER (Rishon Lezion - ISRAEL)

P2.1-031 Phenotypic testing of candidate virulence genes in Pseudomonas syringae pv. aesculi associated with adaptation and infection in horse chestnut | Sabrine DHAOUADI (Birmingham - UNITED KINGDOM)

P2.1-032 Improved method for isolation of clavibacter sepedonicus from potato extracts using solanum melongena Mathijs NAS (Emmeloord - NETHERLANDS)

P2.1-033 Interactions and genome biology of Dickeya fangzhongdai: a potential threat to potato industry Shefali DOBHAL (Hawaii - UNITED STATES)

P2.1-034 Large-scale transposon mutagenesis reveals type III secretion effector HOPR1 is a major virulence factor in Pseudomonas syringae PV. Actinidiae | Yasuhiro ISHIGA (Tsukuba - JAPAN)

P2.1-035 Recent Xanthomonas translucens pv. undulosa isolates are more virulent and possess a distinct tal effector repertoire compared to older isolates | Diego GUTIERREZ CASTILLO (Fort Collins - UNITED STATES)

P2.1-036 Host recognition of clavibacter secreted serine proteases | Charis RAMSING (Davis - UNITED STATES)

P2.1-037 Serratia fonticola, a putative bacteria associated with abnormal vertical growth syndrome in macadamia Olufemi AKINSANMI (Brisbane, Queensland - AUSTRALIA)

P2.1-038 Genomic diversity and pathogenicity of Australian agrobacterium species in horticulture crops Rebecca ROACH (Brisbane - AUSTRALIA)

P2.1-039 Plant-associated bacteria extracellular vesicles: characterization and potential ecological roles Timothée ZANNIS-PEYROT (Lyon - FRANCE)

P2.1-040 Leaf margin morphology deeply affects pathogen fitness and ecology | Laurent NOEL (Castanet-Tolosan - FRANCE)

P2.1-041 Bioinformatics approach for identifying possible Phytoplasma effector proteins | Kayhan DERECIK (Istanbul - TURKEY)

P2.1-042 Genomic identification of the novel agrobacterial genes contributing to plant transformation | Yu WU (Taipei - TAIWAN)

P2.1-043 Comparative genomic analysis of spiroplasma citri in naturally infected citrus samples and in vitro cultures Isil TULUM (Istanbul - TURKEY)

P2.1-044 Involvement of tales in Xanthomonas campestris pv. campestris pathogenicity in cauliflower Brice CHARLEUX (Auzeville-Tolosane - FRANCE)

P2.1-045 Identification of virulence related genes regulated by a bacterial carbonic anhydrase Lingwei WAN (Ithaca - UNITED STATES)



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P2.1-046 Development of genetic tools for study of host-pathogen interactions in Xanthomonas Jeffrey SCHACHTERLE (Fargo - UNITED STATES)

P2.1-047 Role of chemotaxis cluster ii in woody and herbaceous plants pathogen bacteria Carla Ariadna LAVADO BENITO (Málaga - SPAIN)

P2.1-048 Genome biology and evolution of clavibacter michiganensis | Mohammad ARIF (Honolulu - UNITED STATES)

P2.1-049 Impact of a carbonic anhydrase on expression of virulence-related genes in Pseudomonas syringae Wei **ZHANG** (Ithaca - UNITED STATES)

P2.1-050 Diversity of potential mobile unites in 'Candidatus Phytoplasma solani' genomes - implications of specific transposon-like elements in Phytoplasma pathogenicity and evolution | Martina SERUGA MUSIC (Zagreb - CROATIA)

P2.1-051 Temperature plays a decisive role in the ability of Pseudomonas syringae to trigger eti and drives in planta bacterial growth dynamics | Emma CAULLIREAU (Verona - ITALY)

P2.1-053 Identification and characterization of Xanthomonas arboricola pv. juglandis from bacterial blight and brown apical necrosis of walnuts in türkiye | Damla ERTIMURTAS (Izmir - TURKEY)

P2.1-054 Molecule polymorphism of G-X-Y interruptions in collagen triple helix protein of Candidatus liberibacter asiaticus Fang DING (Wuhan - CHINA)

P2.1-055 Colonization of the leaf vasculature by Xanthomonas campestris pv. campestris Misha PAAUW (Amsterdam - NETHERLANDS)

P2.1-056 Completing koch's postulates for the citrus huanglongbing bacterium, Candidatus liberibacter asiaticus Yongping DUAN (Fort Pierce - UNITED STATES)

P2.1-057 Revealing barely susceptibility genes responding to bacterial leaf streak | Zhaohui LIU (Fargo - UNITED STATES)

P2.1-058 Genomic and phenotypic biology of novel strains of Dickeya zeae | Gamze BOLUK-SARI (Honolulu - UNITED STATES)

P2.1-059 DNA supercoiling as a global transcriptional regulator: a complex mechanism involved in the infection process of the phytopathogen Dickeya dadantii? | Maïwenn PINEAU (Villeurbanne - FRANCE)

P2.1-060 Functional characterization of the Xanthomonas campestris talome | Corinne AUDRAN (Castanet-Tolosan - FRANCE)

P2.1-061 Cassava bacterial blight is promoted by tale-independent activation of the mesweet10e sugar transporter Carlos ZARATE (Montpellier - FRANCE)

P2.1-062 Ralstonia tale-like proteins target host arginine decarboxylase genes and can act as hooks for plant resistance against bacterial wilt disease | Niels GALLAS (Tübingen - GERMANY)

P2.1-063 Complete genome sequences and characterization of Xanthomonas arboricola, the novel causal agent of bacterial leaf blight of blueberry | Monika KALUZNA (Skierniewice - POLAND)

P2.1-064 Deciphering of the proximal proteome of two yopj family acetyltransferases from two plant vascular pathogenic bacteria | Léa MONGE WALERYSZAK (Auzeville-Tolosane - FRANCE)

P2.1-067 Optimized yeast 2-hybrid platform to discover plant-bacteria interactions Michael MULOT (Evry-Courcouronnes - FRANCE)

P2.1-068 Live visualization of type iii-mediated host transcriptional reprogramming during Xanthomonas translucens infection Jules **BUTCHACAS** (Columbus - UNITED STATES)

P2.1-069 A natural single nucleotide mutation in the small regulatory rna arcz of Dickeya solani switches off the antimicrobial activities against yeast and bacteria | Typhaine BRUAL (Villeurbanne - FRANCE)

P2.1-070 The selective autophagy receptor NBR1 is a central hub in plant immunity | Ophélie LÉGER (Bochum - GERMANY)

P2.1-071 Alien pathogen impact is driven by the lack of plant-pathogen co-evolution dynamics: the case of olive quick decline syndrome caused by Xylella fastidiosa SUBSP. Pauca | Valeria SCALA (Roma - ITALY)

P2.1-072 The analysis of extracellular vesicles mediating the interaction between pectobacterium and Arabidopsis Malgorzata WALERON (Gdansk - POLAND)

P2.1-073 Identification of effectors from phloem-restricted bacterial pathogens, and their host target Julien LEVY (College Station - UNITED STATES)

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Population genomics of plant pathogens

P2.3-001 Advances in genomics of tilletia indica causing karnal bunt of wheat | Malkhan Singh GURJAR (New Delhi - INDIA)

P2.3-002 Examination of large chromosomal inversions in the genome of Erwinia amylovora strains reveals worldwide distribution and north america-specific types | Frank ZHAO (Prosser - UNITED STATES)

P2.3-003 Population genetic diversity and migration patterns of exserohilum turcicum from maize-based cropping systems in South Africa | David Livingstone NSIBO (Pretoria - SOUTH AFRICA)

P2.3-004 Genetic diversity and population structure of wheat stripe rust pathogen (Puccinia Striiformis F. Sp. Tritici) in Türkiye based on genome-wide single nucleotide polymorphisms | Mehmet TEKIN (Antalya - TURKEY)

P2.3-005 Fusarium and the emergence of bakanae disease in bangladesh | Asmaul HUSNA (Penang - MALAYSIA)

P2.3-006 Evolutionary impact of chickpea (cicer arietnum) host resistance on a clonal Ascochyta rabiei population in Australia Hayley WILSON (Brisbane - AUSTRALIA)

P2.3-007 Genomic analysis of a new virus involved in papaya 'sticky' disease unveils a lineage of plant-infecting viruses related but distinct from totiviruses | Diego QUITO-AVILA (Guayaquil - ECUADOR)

P2.3-008 Genetic diversity and population structure of 18 Tunisians orobanche foetida populations using radseq Amal BOUKTEB (Tunis - TUNISIA)

P2.3-009 Diversity and aggressiveness of Fusarium spp. associated with chickpea in Montana Monica BRELSFORD (Bozeman - UNITED STATES)

P2.3-010 Mating-type locus analysis in ganoderma boninense, the basal stem rot causing pathogen of oil palm Hun Jiat TUNG (Semenyih - MALAYSIA)

P2.3-011 Adaptive evolution of an exotic forest pathogen is mediated by interspecific genic introgression Matteo GARBELOTTO (Berkeley - UNITED STATES)

P2.3-012 Who needs a mate? adaptation in defiance of extremely low genetic diversity in the clonally propagated Ascochyta rabiei population in Australia | Niloofar VAGHEFI (Melbourne - AUSTRALIA)

P2.3-013 Population genomic analyses reveal extensive genomic regions within selective sweeps associated with adaptation and demographic history of a wheat fungal pathogen | Taiguo LIU (Beijing - CHINA)

P2.3-014 Contribution of historical herbarium small RNAs to the reconstruction of a cassava mosaic geminivirus evolutionary history | Adrien RIEUX (St Pierre De La Réunion - FRANCE)

P2.3-015 Determining the contribution of onion transplants to the population genetics of stemphylium vesicarium in New York, USA using microsatellite markers | Natalia PINEROS-GUERRERO (Geneva, Ny - UNITED STATES)

P2.3-016 Genomic diversity and virulence of scab-causing streptomyces SPP. in the province of Quebec, Canada Martin FILION (Saint-Jean-Sur-Richelieu - CANADA)

P2.3-017 Diversity of mobile genetic elements and associated fitness factors to elucidate the evolution of Xanthomonas Kylie WEIS (Auburn - UNITED STATES)

P2.3-018 High genetic diversity found in emerging eucalyptus pathogen elsinoe necatrix Michael J. WINGFIELD (Pretoria - SOUTH AFRICA)

P2.3-019 Is a shift in pathogen structure causing the increased incidence of common bunt caused by tilletia SPP. in Swedish winter wheat? I Anna BERLIN (Uppsala - SWEDEN)

P2.3-020 Understanding the population structure and pathogenicity of bipolaris oryzae on commercial and wild Australian rices | Sabrina ML MORRISON (Brisbane - AUSTRALIA)

P2.3-022 Emergence and evolution of a novel lineage of Ralstonia solanacearum with expanded host range Daria EVSEEVA (Tübingen - GERMANY)

P2.3-024 Morphological, molecular and pathogenic characterization of alternaria species causing apple leaf and fruit spot disease in catalonia (Northeastern Spain) | Concepció MORAGREGA (Girona - SPAIN)

P2.3-025 Phylogenomic analyses and comparative genomic of Pseudomonas syringae associated with almond (Prunus Dulcis) in California Florent TROUILLAS (Parlier - UNITED STATES)



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P2.3-026 Population dynamics and adaptive architecture of the fungus pseudocercospora fijiensis in response to resistance in banana | Cassandre JOLIVET (Montpellier - FRANCE)

P2.3-027 Comparative genomic analysis of Pseudomonas savastanoi PV. fraxinii isolated from ash trees in the UK Katherine HINTON (Birmingham - UNITED KINGDOM)

P2.3-028 Perilous coexistence: chilli leaf curl virus and Candidatus Phytoplasma trifolii infecting capsicum annuum, India Vineeta PANDEY (Gorakhpur - INDIA)

P2.3-029 Diversity of peronosclerospora philippinensis (W. Weston) C.g. shaw causing downy mildew in sugarcane and corn in the Philippines | Fe DELA CUEVA (Los Baños - PHILIPPINES)

P2.3-030 Impact of fungicide applications on the population structure of ZymoSeptoria tritici in Europe Eula Gems OREIRO (Uppsala - SWEDEN)

P2.3-031 Spatial-temporal genetic diversity of neoscytalidium dimidiatum populations in Taiwan Cheng-Fang HONG (Taichung City - TAIWAN)

P2.3-032 Sequencing and recombination analysis of watermelon mosaic isolates from the Czech Republic Karima BEN MANSOUR (Prague - CZECH REPUBLIC)

P2.3-033 Phenotypic and genotypic characterization of Phytophthora infestans isolates from Kenya and Nigeria Phillip WHARTON (Aberdeen - UNITED STATES)

P2.3-034 Aspen mosaic-associated virus populations in Finland and Sweden Shaheen NOURINEJHAD ZARGHANI (Berlin - GERMANY)

P2.3-035 Population genomic analyses uncover diversity, differentiation of subpopulations and mechanisms of evolution of Fusarium asiaticum in a historic context | Meixin YANG (Beijing - CHINA)

P2.3-036 Genomic and phenotypic characterization of epidemiologically most successful haplotypes of the fire-blight pathogen, Erwinia amylovora | Tanja DREO (Ljubljana - SLOVENIA)

P2.3-037 Identification of four novel species of Pseudomonas associated with bacterial leaf spot of cucurbits Kiersten BUSHONG (Gainesville - UNITED STATES)

P2.3-038 Genetic diversity and virulence in a worldwide collection of sunflower broomrape (Orobanche Cumana Wallr.) populations Alberto MARTIN-SANZ (Carmona - SPAIN)

P2.3-039 Genetic diversity analysis of broomrape (Orobanche Cumana) populations in sunflower growing areas in Europe Clothilde BOUBEE DE GRAMONT (Mondonville - FRANCE)

P2.3-040 Population genomic analyses reveal possible hybridization and deep genetic structure in the barley pathogen Pyrenophora teres | Julie RAMIREZ (Montpellier - FRANCE)

P2.3-041 Population genomic analyses reveal patterns of host specialization and hybridization in ceratocystis fimbriata, C. Eucalypticola and C. Manginecans | Tuan A. DUONG (Pretoria - SOUTH AFRICA)

P2.3-042 Diversity of Xanthomonas nasturtii, the cause of black rot of watercress | Joana VICENTE (York - UNITED KINGDOM)

P2.3-043 Phylogenetic identification of alternaria spp. belonging to sections alternaria and infectoriae isolated from wheat seeds with black point symptom | José Manuel AGUIRRE-RAYO (Texcoco - MEXICO)

P2.3-044 Differences in f. musae genomes | Luca DEGRADI (Milano - ITALY)

P2.3-045 Comparative genomics and association with pathogenic traits in Xanthomonas Alvaro L PEREZ QUINTERO (Montpellier - FRANCE)

P2.3-046 Population genetics of two invasive fungi (cryphonectria parasitica and Fusarium circinatum) in Spain Farooq AHMAD (Palencia - SPAIN)

P2.3-047 Anastomosis group typing of rhizoctonia solani kühn infecting solanaceous vegetable crops Amjad Shahzad GONDAL (Multan - PAKISTAN)

P2.3-048 Blueberry virus I: a novel and widespread blueberry virus in the United States Ioannis TZANETAKIS (Fayetteville - UNITED STATES)

P2.3-049 Comparative genomic analysis and phenotypic studies of pectobacterium cacticidum and proposal of reclassification to a new genus alcornia | Malgorzata WALERON (Gdansk - POLAND)

P2.3-050 Inter-continental population differentiation spot form of net blotch isolates Simon ELLWOOD (Bentley - AUSTRALIA)

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Viral modification of plants and vectors

P2.4-002 Impact of 'Candidatus liberibacter asiaticus' on the expression and activation of toll signaling pathway genes in diaphorina citri, the vector of citrus greening disease | Mahnaz RASHIDI (Lake Alfred - UNITED STATES)

P2.4-003 Plant bacterial pathogen manipulates the fatty acids metabolism of the insect vector to fulfill its nutritional needs Nabil KILLINY (Lake Alfred - UNITED STATES)

P2.4-004 Short-distance movement of bemisia tabaci meam1 and transmission of tomato severe rugose virus to tomato plants in the field | Felipe FRANCO DE OLIVEIRA (Piracicaba - BRAZIL)

P2.4-005 Iris yellow spot orthotospovirus-thrips complex in onion production areas in the usa: progress toward developing management tactics | Hanu PAPPU (Pullman - UNITED STATES)

P2.4-006 Biased pollen transfer by bumblebees favors the paternity of virus-infected plants in cross-pollination Alex MURPHY (Cambridge - UNITED KINGDOM)

P2.4-007 The renewed threat of tomato spotted wilt, a global agricultural pandemic Kiran GADHAVE (Amarillo - UNITED STATES)

P2.4-008 Vectors of Xylella spp. and its role in global transmission | Wan-Hsiu YANG (Taichung City - TAIWAN)

P2.4-009 Induction of aphid resistance in tobacco by the cucumber mosaic virus CMVDELTA2B mutant is jasmonate-dependent | John CARR (Cambridge - UNITED KINGDOM)

P2.4-010 Effects of a viral counter-defense protein on plant-insect interactions in Arabidopsis Thaliana Arden BERLINGER (Cambridge - UNITED KINGDOM)

P2.4-011 Monopartite and bipartite begomoviruses differentially interact with two common whitefly cryptic species (b and q) Rajagopalbabu SRINIVASAN (Griffin - UNITED STATES)

P2.4-012 Presence of tobamovirus alters the mechanical transmissibility of begomovirus | Deri GUSTIAN (Taichung - TAIWAN)

P2.4-013 Identification of plant virus receptors in the stylets of their insect vectors using CRISPR-CAS9 mutant aphid lines Yu FU (Montpellier - FRANCE)

P2.4-014 The influence of diaphorina citri flavi-like virus on huanglongbing bacteria vectoring and psyllid biology Chunyi LIN (Lake Alfred - UNITED STATES)

P2.4-015 The transmission of barley yellow dwarf viruses by four cereal aphid species | Piotr TREBICKI (Parkville - AUSTRALIA)

P2.4-016 Characterising the interaction of the cucumber mosaic virus 1A and 2B proteins Sam CRAWSHAW (Cambridge - UNITED KINGDOM)

P2.4-017 Timing of in-season plant-to-plant spread of potato virus y in potato in idaho, United States Kasia M. DUELLMAN (Idaho Falls - UNITED STATES)

P2.4-018 Parameters influencing wheat dwarf disease incidence and leafhopper abundance in Sweden Elham YAZDKHASTI (Uppsala - SWEDEN)

P2.4-019 Transmission efficiency of tomato chlorosis virus (tocv) to potato plants by bemisia tabaci MEAM1 and med and damage caused by this crinivirus on this vegetable | Gabriel Madoglio FAVARA (Botucatu - BRAZIL)

P2.4-020 First report of bidens mosaic vírus infecting patchouli plants (Pogostemon Cablin Benth.) in Brazil Caroline MARTINES (Botucatu - BRAZIL)

P2.4-021 Transmission efficiency of begomovirus by different populations of bemisia tabaci med in São Paulo state Cíntia Sabino OLIVEIRA (Botucatu - BRAZIL)

P2.4-022 Collection and identification of potential Xylella fastidiosa vectors - assessment of bacteria transmission in Poland Monika KALUZNA (Skierniewice - POLAND)

P2.4-023 Transmission of cucurbit leaf crumple virus (geminiviridae: begomovirus) by vector bemisia tabaci with differing secondary endosymbiont composition | Sharon ANDREASON (Charleston - UNITED STATES)

P2.4-024 Genome-wide association study reveals loci associated with vector competency of diaphorina citri, insect vector of citrus greening disease | Douglas STUEHLER JR. (Fort Pierce - UNITED STATES)

P2.4-025 How might management interventions be matched to the stage of epidemics for cassava viruses?
Ruairí DONNELLY (Cambridge - UNITED KINGDOM)



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Understanding emergence of pathogens in commercial and public forest ecosystems

P2.6-001 Microbiome interactions of Heterobasidion fruiting body and associated decayed woody tissues Wenzi REN (Helsinki - FINLAND)

P2.6-003 Genomic diversity, pathogenicity and stability of epiphytic Pseudomonas population in prunus SPP. - searching for the sources of new disease outbreaks | Ziyue ZENG (Cambridge - UNITED KINGDOM)

P2.6-004 Ceriporia lacerata may be a potential tree pathogen | Wei-Ting CHUANG (Taipei - TAIWAN)

P2.6-005 Top down and bottom up: how the interaction of two pathogens fuels mortality of common ash (Fraxinus Excelsior) in Europe | Renate HEINZELMANN (Birmensdorf Zh - SWITZERLAND)

P2.6-006 A case study of expansion of Heterobasidion parviporum genotypes in a Norway spruce stand on peat soil Darta KLAVINA (Salaspils - LATVIA)

P2.6-007 Environmental regulation of the hymenoscyphus fraxineus lifecycle

Matt COMBES (Alice Holt Lodge, Farnham - UNITED KINGDOM)

P2.6-008 Poplar rust never sleeps: evolutionary characterization of the first avirulence gene in the poplar rust fungus melampsora larici-populina | Pascal FREY (Nancy - FRANCE)

Food Security for Sustainable Food Systems

P2.7-001 Improved shiitake mushroom cultivation in the natural growing conditions for the food and nutritional security of tribal farmers of India | Raja PERIASAMY (Pasighat - INDIA)

P2.7-002 Integrated management of finger millet production system in northeast India for food security and sustainability Gopal Kumar NIROULA CHHETRY (Imphal(Canchipur) - INDIA)

P2.7-003 Assessment of combining microbial agents and silicon dioxide to control stem rot and southern blight disease on kidney bean in Taiwan | Ying-Ru LIANG (Wufong - TAIWAN)

Molecular aspects of plant-fungal interactions Part 1: Effectors

P3.1-001 The infection cushion, a key organ of virulence for Botrytis cinerea | Mélanie CRUMIERE (Lyon - FRANCE)

P3.1-002 Nps2, encoding a non-ribosomal peptide synthetase, is a virulence factor of the maize anthracnose fungus c. graminicola | Lala ALIYEVA-SCHNORR (Halle - GERMANY)

P3.1-003 Virulence profile of Colletotrichum falcatum went isolates prevailing in Pakistan Waqas ARSHAD (Faisalabad - PAKISTAN)

P3.1-004 Genetic transformation and expression of dsred and egfp in Ascochyta pisi to characterize Ascochyta blight disease progression in pea (pisum sativum I.) | Pankaj KUMAR (Poznan - POLAND)

P3.1-005 Identifying effectors from the fungal pathogen ZymoSeptoria tritici that can overcome resistance in commercial wheat cultivars | Amir MIRZADI GOHARI (Dublin - IRELAND)

P3.1-006 Analysis of factors involved in growth inhibition and blackening of rice roots infected with pyricularia grisea Zikai XIANG (Kobe - JAPAN)

P3.1-007 Melaleuca quinquenervia; towards a model for myrtle rust research | Alyssa MARTINO (Sydney - AUSTRALIA)

P3.1-008 The perfect dawn: the role of early morning lighting on immunity | Gina VONG (York - UNITED KINGDOM)

P3.1-009 Forest tree mycobiome: impact on Heterobasidion pathogenesis and plant health | Fred ASIEGBU (Helsinki - FINLAND)

P3.1-010 Characterization of nrps and pks gene clusters and families in alternaria dauci and demonstration of the aldaulactone biosynthesis pathway through ko mutants | Jérôme Monroe BERNADINO (Angers - FRANCE)

P3.1-011 A comparative study of sa-ja-aba cross-talk in response to alternaria brassicae in susceptible and resistant brassica species | Shikha DIXIT (Raipur - INDIA)

P3.1-012 Novel genes associated with susceptibility or cryptic quantitative disease resistance to pyrenopeziza brassicae in brassica napus | Henrik STOTZ (Hatfield - UNITED KINGDOM)

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P3.1-013 Novel resources for southern blight disease resistance breeding in common bean | Samuel ERIMA (Kamapala - UGANDA)

P3.1-014 Heterologous expression in nicotiana benthamiana identifies candidate effector proteins from phyllachora maydis that suppress cell surface-triggered immune responses | Namrata JAISWAL (West Lafayette, In - UNITED STATES)

P3.1-015 Identification of a pathogenicity chromosome in Fusarium oxysporum F. Sp. Cepae | Kosei SAKANE (Tottori - JAPAN)

P3.1-016 A transcriptomic analyses of the role of other fungi in Botrytis cinerea caused noble rot of grapevine Ádám István HEGYI (Eger - HUNGARY)

P3.1-017 Metatranscriptomic analysis of possible changes in oenologically relevant components of grape berries during noble rot | Ádám | István | HEGYI (Eger - HUNGARY)

P3.1-018 Comparative transcriptomic analysis of mapk-mediated regulation of pathogenicity, stress responses and development in cytospora chrysosperma | Dianguang XIONG (Beijing - CHINA)

P3.1-019 Transgenic brassica napus seedlings overexpressing rice acyl-coa-binding protein osacbp5 are protected against seedling infection by fungal phytopathogens | Mee Len CHYE (Pokfulam, Hong Kong - HONG KONG)

P3.1-020 Identification and use of a conserved locus for standardised target site integration in Fusarium graminearum Martin DARINO (Harpenden - UNITED KINGDOM)

P3.1-021 Identification and characterization of candidate effectors from the wheat pathogen ZymoSeptoria tritici Sandra GOMEZ (West Lafavette - UNITED STATES)

P3.1-022 Resistance to Sclerotinia sclerotiorum by over-expressing executer 1, defensin, syntaxin of plants (SYP121) or lecrk a4.3 in transgenic brassica napus | Lone BUCHWALDT (Saskatoon - CANADA)

P3.1-023 Genetic characterization and pathogenicity screening of Fusarium spp. isolates causing post flowering stalk rot in maize | Prashant JAMBHULKAR (Jhansi - INDIA)

P3.1-025 Isolation and steps towards molecular characterisation of Ascochyta rabiei exosomes
Matin GHAHERI (Brisbane - AUSTRALIA)

P3.1-026 Oxalic acid metabolism contributes to full virulence and pycnidial development in the poplar canker fungus cytospora chrysosperma | Yuanyuan WANG (Beijing - CHINA)

P3.1-027 VDTPS2 modulates plant symptom development and stress responses in Verticillium dahliae Chen TANG (Beijing - CHINA)

P3.1-028 Septins regulate virulence in Verticillium dahliae and differentially contribute to microsclerotial formation and stress responses | Yonglin WANG (Beijing - CHINA)

P3.1-029 Transcriptome variations in Verticillium dahliae in response to two different inorganic nitrogen sources Wenwen LI (Beijing - CHINA)

P3.1-030 Characterization of the promoter of the avirulence gene avrpi9 in the rice blast fungus Magnaporthe oryzae Chatchawan JANTASURIYARAT (Bangkok - THAILAND)

P3.1-031 Occurrence and parasitic specialization of large-spored alternaria species as-sociated with early blight of potato and tomato in Algeria | Djida AYAD (Brest - FRANCE)

P3.1-032 The rice blast fungus sr protein 1 regulates alternative splicing with unique mechanisms | Jun YANG (Beijing - CHINA)

P3.1-033 Biological characteristics contributing to virulence enhancement in Fusarium oxysporum F. SP. cucumerinum after the selective pressure of resistant cucumber | Shidong LI (Beijing - CHINA)

P3.1-035 Regulatory mechanisms of in planta specific expression of a fungal effector gene, mohtr1, in the rice blast fungus Yoon-Ju YOON (Seoul - REPUBLIC OF KOREA)

P3.1-036 Dissection of the SDS2-Mediated cell death and defense pathway to Magnaporthe oryzae in rice Guo-Liang WANG (Columbus - UNITED STATES)

P3.1-037 Function and host cell localization of SIX3 and SIX5 effectors in Fusarium oxysporum F. SP. cepae Kazunori SASAKI (Yamaguchi - JAPAN)

P3.1-038 Analysis of MSP1-Induced post-translational modification dynamics unveiled novel insights into rice-Magnaporthe oryzae interaction | Gihyun LEE (Miryang - REPUBLIC OF KOREA)



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P3.1-039 Assay for transposase accessible-chromatin with High Throughput Sequencing (Atac-Seq) reveals the molecular responses of postharvest pear during penicillium expansum infection | Lina ZHAO (Zhenjiang - CHINA)

P3.1-040 CCEG1, a glycoside hydrolase 12 protein from cytospora chrysosperma, can trigger plant immunity but is not required for fungal virulence | Xu ZHIYE (Málaga - SPAIN)

P3.1-041 The lysm protein bdlm1 of botryosphaeria dothidea plays important roles in full virulence and inhibits plant immunity by binding chitin and protecting hyphae from hydrolysis | Xiao-Qiong ZHU (Beijing - CHINA)

P3.1-042 The gene of a gpi-anchoring protein a promising new target for the control of the cucurbit powdery mildew podosphaera xanthii | Isabel P. ROJI (Málaga - SPAIN)

P3.1-043 Distribution of avirulence genes of the rice blast fungus collected from the northern areas of Korea in 2021 Sook-Young PARK (Suncheon - REPUBLIC OF KOREA)

P3.1-044 Role of endogenous eugenol in the resistance to Botrytis cinerea of the hybrid grapevine cultivar "baco blanc" Xavier HASTOY (Villenave D'ornon - FRANCE)

P3.1-045 Systemic colonization of potato plants by co-infection with Verticillium dahliae and Fusarium oxysporum Ruifang JIA (Hohhot - CHINA)

P3.1-046 Pesticide application causes changes in gene expression of thousand cankers disease host and pathogen Denita HADZIABDIC (Knoxville - UNITED STATES)

P3.1-047 Rna sequencing-based transcriptome analysis of two contrasting s. lycopersicum varieties infected by Botrytis cinerea | Mariola TOBAR (Santiago - CHILE)

P3.1-048 Unravelling the cell wall integrity pathway of Fusarium graminearum | Nora A FOROUD (Lethbridge - CANADA)

P3.1-049 Identification of solanum lycopersicum small rna transferred to Botrytis cinerea during the infection process Mariola TOBAR (Santiago - CHILE)

P3.1-050 Transcriptome analysis of different potato cultivars reveals the cultivar-specific molecular events in early blight disease | Sajeevan RADHA SIVARAJAN (Lomma - SWEDEN)

P3.1-051 Transcriptomic analyses revealed pathogenicity-related genes in the fungal pathogen Verticillium longisporum Vahidehalsadat RAFIEEBANADAKI (Uppsala - SWEDEN)

P3.1-052 Transcriptomic responses controlling aggressiveness of Ascochyta rabiei during Ascochyta blight infection in chickpea | Mahmuda Binte MONSUR (170 Kessels Rd, Nathan Qld 4111 - AUSTRALIA)

P3.1-053 Uncovering global diversity and evolution of virulence genes toxa and toxb in tan spot pathogen Pyrenophora tritici-repentis | Reem ABOUKHADDOUR (Lethbridge - CANADA)

P3.1-054 Maize antifungal protein AFP1 elevates fungal chitin levels by targeting chitin deacetylases and other glycoproteins Lay-Sun MA (Taiwan, Taipei - TAIWAN)

P3.1-055 Collapse of aerial hyphae as a potential signal to induce perithecium formation in the cereal pathogen Fusarium graminearum | Yun-Seon CHOI (Asan - REPUBLIC OF KOREA)

P3.1-056 Ustilago maydis n-glycosylated apoplastic effector ALE1 TArgets maize zmtaxi to counteract its attack on umxylanase 11a | Chibbhi KUMARASAMY BHASKAR (Taipei - TAIWAN)

P3.1-057 Pathogenic effector vmusp1 contributes to the full virulence of valsa mali and interacts with apple heat shock protein 70 as a potential target | Lili HUANG (Yangling - CHINA)

P3.1-058 Strategies to discover disease response genes against Fusarium head blight in wheat Maria A. HENRIQUEZ (Morden - CANADA)

P3.1-059 A valsa mali virulence effector vmpr1c represses apple resistance to valsa canker by compromising MDVQ29-mediated immunity Lili HUANG (Yangling - CHINA)

P3.1-060 Ustilago maydis Pr-1-Like protein has evolved two distinct domains for dual virulence activities Yu-Han LIN (Taiwan, Taipei - TAIWAN)

P3.1-061 Dissection of the ubiquitin E3 ligases-mediated disease resistance mechanism in rice against Magnaporthe oryzae Yuese NING (Beijing - CHINA)

P3.1-062 Impacts of myrtle rust disease on the soil microbial community associated with the naïve host lophomyrtus bullata Mahajabeen PADAMSEE (Auckland - NEW ZEALAND)

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Risk assessment for plant pathogens, a key tool for biosecurity under global changes

P3.2-001 Nutritional management and prediction of tomato leaf curl virus disease

Muhammad Ahmad ZESHAN (Sargodha - PAKISTAN)

P3.2-002 Adapting to the projected epidemics of Fusarium head blight of wheat in Korea under climate change Kwang-Hyung KIM (Seoul - REPUBLIC OF KOREA)

P3.2-003 A generic process-based simulation model with two-way coupling of epidemics and crop growth Laetitia WILLOCQUET (Biot - FRANCE)

P3.2-004 Conifer susceptibility to the pine wilt disease : combining host response to the nematode bursaphelenchus xylophilus and its insect vector monochamus galloprovincialis | Xavier TASSUS (Angers - FRANCE)

P3.2-005 Pest risk analysis, an effective tool to enhance crisis preparedness towards emerging pests: the case of TOBRFV in France | Christine TAYEH (Angers - FRANCE)

P3.2-006 The risk assessment of sharp eyespot caused by ceratobasidium cereale on cereals in Korea Sook-Young PARK (Suncheon - REPUBLIC OF KOREA)

P3.2-007 The EPPO platform on pest risk analysis, a hub for risk assessments of plant pathogens Muriel SUFFERT (Paris - FRANCE)

P3.2-008 The EPPO alert list, a tool to raise awareness on emerging pests in the EPPO region | Muriel SUFFERT (Paris - FRANCE)

P3.2-009 Distribution and diversity of abaca bunchy top virus and banana bunchy top virus causing bunchy top of abaca in caraga, Philippines | Elizabeth PARAC (Butuan City - PHILIPPINES)

P3.2-010 Assessing the risk of long-term establishment of fall armyworm (faw) in new zealand under current and future climate scenarios | Hossein Ali NAROUEI KHANDAN (Wellington - NEW ZEALAND)

P3.2-011 Australian plant biosecurity | Stacey AZZOPARDI (Mascot - AUSTRALIA)

P3.2-012 When finding a solution is not sufficient: economic viability of citrus disease management and the role of extreme environmental factors | AL ABRI (Al-Khod - OMAN)

P3.2-013 Identifying priority quarantine pests based on assessing their economic, social and environmental risks Emilio RODRIGUEZ-CEREZO (Sevilla - SPAIN)

P3.2-014 Fig mosaic disease in tuscany (Italy): molecular characterization and investigation of virus-host interaction Athos PEDRELLI (Pisa - ITALY)

P3.2-015 A spatio-temporal database of first introductions of plant pests in the EU | Maria-Chiara ROSACE (Piacenza - ITALY)

P3.2-016 Disease systems analysis for protecting global food security: an introduction to the R2M toolbox Berea ETHERTON (Gainesville - UNITED STATES)

P3.2-017 Estimation of tylenchulus semipenetrans population on different citrus varieties grown in the national agricultural research center, islamabad, Pakistan | Sohail MUHAMMAD (Rawalpindi - PAKISTAN)

P3.2-020 Virus diseases of vegetables in mali and northern cote d'ivoire, west Africa

Legesse WUBETU BIHON (Addis Ababa - ETHIOPIA)

P3.2-021 Building global surveillance and mitigation strategies for laurel wilt

Romaric A. MOUAFO-TCHINDA (Gainesville, FI, Usa - UNITED STATES)

P3.2-022 Risk analysis of the cut flower trade and geographic hotspots to protect global agriculture from invasive pests and pathogens | Manoj CHOUDHARY (Gainsville - UNITED STATES)

P3.2-023 Quick assessments of the potential for establishment of quarantine pests in Sweden Johanna BOBERG (Uppsala - SWEDEN)

P3.2-024 Bacterial leaf streak of maize caused by Xanthomonas vasicola pv. vasculorum, a disease that might threaten European maize production | Andrew ASPIN (Sand Hutton - UNITED KINGDOM)

P3.2-025 Impact of climate change on potential distribution of Dickeya zeae causal agent of stalk rot of maize in sialkot district Pakistan | Sajjad HYDER (Sialkot - PAKISTAN)

P3.2-026 Horizon scanning for plant health threats: 7 years of support to EU risk managers | M. LARENAUDIE (Angers - FRANCE)



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P3.2-027 Efsa activities on risk assessment and preparedness for invasive alien plant pathogens in Europe Matteo CROTTA (Parma - ITALY)

Resilience in soil health and disease suppression

P3.4-001 The role of soil bacteria and root exudates in regulating dormancy and germination of microsclerotia of Verticillium longisporum | Sarenqimuge SARENQIMUGE (Göttingen - GERMANY)

P3.4-002 Organic amendments transformed the apple (malus domestica borkh.) rhizosphere fungal, but not bacterial, community in an orchard replant soil | Lindani MOYO (Stellenbosch - SOUTH AFRICA)

P3.4-003 Biological suppression of soilborne fungal pathogen Verticillium dahliae in cotton soils Linda SMITH (Brisbane - AUSTRALIA)

P3.4-004 Woodchip amendment can alter banana soil microbial abundance and disease suppressive potential Hazel GAZA (South Johnstone - AUSTRALIA)

P3.4-005 Effects of soil physicochemical properties on Fusarium oxysporum f. sp. elaeidis disease incidence and severity in oil palm plantations of cameroon development corporation (CDC) | Lilian Zemenjuh MOFORCHA (Buea - CAMEROON)

P3.4-006 Cropping sequences that reduce pathogen inoculum and maintain overall soil biological health reduce disease incidence of Verticillium wilt of cotton | Linda SMITH (Dutton Park - AUSTRALIA)

P3.4-007 The relationship between shifts in the rhizosphere microbial community and root rot disease in a continuous cropping american ginseng system | Yan-Meng BI (Tianjin - CHINA)

P3.4-008 Impacts of elevated CO2 on interactions with root microbes for enhanced oak growth and defence against pathogens | Rosa SANCHEZ-LUCAS (Birmingham - UNITED KINGDOM)

P3.4-009 Effect of residue management on cercospora leaf spot of table beet and soil microbiome Pratibha SHARMA (Geneva, Ny - UNITED STATES)

P3.4-010 Is the planting of pesticide-treated seed profitable? results from a large-scale farmer-led arable cropping system experiments in north-east France | Jay Ram LAMICHHANE (Castanet-Tolosan - FRANCE)

P3.4-011 The root microbiome of dryland and irrigated spring wheat: an eight-year study David WELLER (Pullman - UNITED STATES)

P3.4-012 Examining the impact of soil on tree health and disease progression

Vanja MILENKOVIC (Birimingham - UNITED KINGDOM)

P3.4-013 Effects of termination time of leguminous cover crops on root diseases of succeeding peas Maria FINCKH (Witzenhausen - GERMANY)

P3.4-014 Underlying monoculture soil conditions causes of the durian Phytophthora stem canker escalation Sok Leng CHONG (Kuala Terengganu - MALAYSIA)

P3.4-015 Assessment of disease threats and biofungicide efficacy in wood substrates Anissa POLEATEWICH (Durham - UNITED STATES)

P3.4-016 Resilient circular growing media for the future | Florien GORTER (Wageningen - NETHERLANDS)

P3.4-018 Efficiency of biocompost on the growth of tomato plants and incidence of Fusarium wilt in nursery Naiema GORASHI (Khartoum - SUDAN)

P3.4-019 Impact of steaming on soil health indicators and biocontrol agents | Jane DEBODE (Merelbeke - BELGIUM)

P3.4-020 Willow chips supplementation in soil enhances resistance against potato late blight Marika RASTAS (Jokioinen - FINLAND)

P3.4-021 Using rna-seq to assess the meta-transcriptome of microbiome of field crops Erik ALEXANDERSSON (Lomma - SWEDEN)

P3.4-022 Monitoring the presence of entomopathogenic nematodes in maize fields: towards biological control by conservation biocontrol | Eric NGUEMA-ONA (Saint-Malo - FRANCE)

P3.4-023 Response of the soil microbial community, dry root rot and common bean yield to cover crops in a no-tillage field I Murillo LOBO (Santo Antônio De Goiás - BRAZIL)

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P3.4-024 Fortification of compost with bioagents for growth improvement and suppression of wilt disease on chickpea plants Hanan | MUDAWI (Khartoum - SUDAN)

P3.4-025 Biochar amendment with alternate wetting-drying in rice field: an unique combination of crop disease management and quality enhancement | Arnab MAJUMDAR (Kolkata - INDIA)

P3.4-026 Impact of different tillage systems on net carbon exchange rates (ncer) and winter wheat infection a long-term study I Zuzanna SAWINSKA (Poznan (Poznan-Jezyce) - POLAND)

P3.4-027 Impact of soil management on disease suppression of soil borne pathogens in arable fields
Joeke POSTMA (Wageningen - NETHERLANDS)

P3.4-028 Chitin-fortified black soldier fly composted organic fertilizer as an effective tool for managing potato cyst nematodes and improving potato yields | Emmanuel Onyekwelu ANEDO (Nairobi - KENYA)

P3.4-029 Enhancing soil phosphorus availability and wheat bioprotection against ZymoSeptoria tritici using the Pseudomonas-exuded isopyoverdine | Félicie GOUDOT (Lille - FRANCE)

P3.4-030 Sorghum-sudangrass as an organic amendment in anaerobic soil disinfestation decreases disease severity and promotes plant vigor | Wilson OUMA (Knoxville, Tn - UNITED STATES)

P3.4-031 Grapevines with esca symptoms have lower or higher colonization by native arbuscular mycorrhizal fungi? Lucia LANDI (Ancona - ITALY)

P3.4-032 Effect of compost and biocontrol agents on lettuce and tomato Fusarium wilts and on rhizosphere microbiome Massimo PUGLIESE (Grugliasco - ITALY)

Tracing the long-distance pathways of aerial dissemination of plant pathogens

P3.5-001 Sinks, sources and bottlenecks of atmospheric connectivity networks | Davide MARTINETTI (Avignon - FRANCE)

P3.5-002 Pathotypic and molecular characterization of xoc in Senegal | Hamidou TALL (Kolda - SENEGAL)

P3.5-003 Seasonal spore production, germination and fungicide resistance shifts of cercospora beticola in commercial sugar beet fields in the USA | Gary SECOR (Fargo, Nd - UNITED STATES)

P3.5-004 Quantification of airborne basidiospores of ganoderma zonatum at different altitudinal gradients and their relationship with environmental conditions in oil palm | Juan LÓPEZ (Santa Marta - COLOMBIA)

P3.5-005 Dispersal kernels are steeper than the observed gradients | Alexey MIKABERIDZE (Reading - UNITED KINGDOM)

Bacteriophages: ecological roles and potential applications against bacterial plant pathogens

P3.6-001 Characterization of novel bacteriophages against Erwinia amylovora, a causal pathogen for fire blight disease and their application In I Sun HWANG (Seoul - REPUBLIC OF KOREA)

P3.6-002 Development of phage cocktail for preventing soft rot disease caused by pectobacterium species in kimchi cabbage Chang-Sik OH (Seoul - REPUBLIC OF KOREA)

P3.6-003 Developing phage therapy to reduce plant pathogen virulence in Ralstonia solanacearum Daniel NARINO ROJAS (York - UNITED KINGDOM)

P3.6-004 Characterisation of phage that lyse brenneria goodwinii and gibbsiella quercinecans, the causative agents of bleeding cankers associated with acute oak decline | Emily GRACE (Birmingham - UNITED KINGDOM)

P3.6-005 Isolation and characterisation of virulent phages against European Xylella fastidiosa subspecies Caroline LEBRUN (Marseille - FRANCE)

P3.6-006 Bacteriophage as a biocontrol agent in bacterial blood disease of banana in indonesia rda SAFNI (Medan - INDONESIA)

P3.6-007 Phage biocontrol of bacterial leaf blight on rice caused by Xanthomonas oryzae pv. oryzae in Vietnam Nga NGUYEN (Cantho - VIETNAM)



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Germplasm seed movement and global plant health

P3.7-001 Seed transmission of spinach downy mildew | Kelley CLARK (Salinas - UNITED STATES)

P3.7-002 Development and application of reverse transcription droplet digital pcr assays for detection and quantification of major apple viruses from in vitro micropropagated apple plantlets | Hyo-Jeong LEE (Gwangju - REPUBLIC OF KOREA)

P3.7-003 Recovery of bls-associated pathogen from seed, seedlings, and leaf samples in south dakota Shaukat ALI (Broonings - UNITED STATES)

P3.7-004 Emergence of new diseases in imported germplasm of apple | Harender RAJ (Solan - INDIA)

P3.7-005 Exploration of methods for detecting insects in seed lots | Isabelle SERANDAT (Beaucouzé - FRANCE)

P3.7-006 Alfalfa seed virome | Lev NEMCHINOV (Beltsville - UNITED STATES)

P3.7-008 Seed potato certification role in disease management in Australia | Nigel CRUMP (Toolangi - AUSTRALIA)

P3.7-009 Evaluation of in situ and ex situ forage germplasm collections revealed the first occurrence and seed-transmission of alfalfa mosaic virus and southern bean mosaic virus infecting brachiaria SPP | Woubit BEDANE (Addis Ababa - ETHIOPIA)

P3.7-010 Taxonomic diversity of rice seed associated bacteria in representative seed imports from various countries into africarice ghu | Fatimata BACHABI (Bouaké - COTE D IVOIRE)

P3.7-011 Sweetpotato virus incidence and elimination in the global germplasm collection maintained at the international potato center (CIP) | Alexandre MELLO (Lima - PERU)

P3.7-012 Phytosanitary evaluation of the in vitro cassava collection (manihot esculenta crantz): collection history and phytosanitary evaluation | Maritza CUERVO (Cali - COLOMBIA)

P3.7-013 Identification, conservation and formation of a bank of strains of quarantine fungi isolated from bean seeds and tropical forages, from the germplasm bank "future seeds" | Julio Cesar RAMIREZ (Cali - COLOMBIA)

P3.7-014 Detection and characterization of seed-borne bacterial leaf blight in wheat Abdul Rahman MOUKAHEL (Zahle - LEBANON)

P3.7-015 Effectiveness of natural compounds and low risk active ingredients for the control of fungal diseases on seed-bearing cabbage | Gianfranco ROMANAZZI (Ancona - ITALY)

P3.7-016 Germplasm seed movement and global plant health | Lava Kumar PULLIKANTI (Ibadan - NIGERIA)

P3.7-017 Phytosanitary procedures for the conservation and use of plant genetic resources conserved in the iita's international genebank | Lava Kumar PULLIKANTI (Ibadan - NIGERIA)

PROGRESS IN DISEASE CONTROL - Part1

P4.1-001 Nanoparticles of chitosan, antioxidantis and organic acid and their native on fungi causing root rot of growing cucumber plant in green houses | El- Sayed ZIEDAN (Cairo - EGYPT)

P4.1-002 Transgenic citrus expressing a truncated oncocin antimicrobial peptide suppresses asian citrus psyllid (diaphorina citri) and reduces citrus canker | Magali FERRARI GRANDO (Fort Pierce - UNITED STATES)

P4.1-003 Can rapid detection methods help target pathogen control measures?

Neil BOONHAM (Newcastle Upon Tyne - UNITED KINGDOM)

P4.1-004 Adavelt active (florylpicoxamid), a naturally inspired solution for broad spectrum disease control Andrea HUFNAGL (Guyancourt - FRANCE)

P4.1-005 Selecting Phytophthora-tolerant citrus rootstocks | Zakariae BAIZ (Casablanca - MOROCCO)

P4.1-006 Loranthus ligustrinus is an emerging parasite causing declining the yield of citrus reticulata orange in India and its sustainable management methods | Raja PERIASAMY (Pasighat - INDIA)

P4.1-007 Green synthesis of ferrocenyl chalcones and their evaluation against plant pathogenic fungi and root knot nematode Dinesh Kumar YADAV (Bhopal - INDIA)

P4.1-008 Field efficacy of various systemic and biological fungicides against coffee leaf rust in Hawaii Zhiqiang CHENG (Honolulu - UNITED STATES)

P4.1-009 Use of biological products-base management programs for the control of sweet cherry diseases Ernesto MOYA-ELIZONDO (Chillán - CHILE)

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P4.1-010 Bacterial spot incited by Xanthomonas cucurbitae: a serious emerging disease of cucurbits Mohammad BABADOOST (Urbana, Illinois - UNITED STATES)

P4.1-011 Using rna interference to protect crops against fungal pathogens | Mark BELMONTE (Winnipeg - CANADA)

P4.1-012 Sugar beet cultivars (CR+) with C. beticola resistant gene can improve the economic viability of the industry where cercospora leaf spot is a major problem | Mohamed KHAN (Fargo - UNITED STATES)

P4.1-013 A plant disease complex between a plant parasitic nematode and a fungus - reevaluating pratylenchus capsici disease etiology | Sigal BROWN MIYARA (Rishon Lezion - ISRAEL)

P4.1-014 Evaluation of organic materials review institute (OMRI) products and varieties for Fusarium head blight (FHB) management in organic winter wheat in Indiana, United States of America

Camila ROCCO DA SILVA (West Lafayette - UNITED STATES)

P4.1-015 Management of tar spot in conventional and organic corn systems in Indiana, United States of America Camila ROCCO DA SILVA (West Lafayette - UNITED STATES)

P4.1-016 Resistance to Fusarium oxysporum F. SP. luffae in luffa germplasm despite the pathogen colonization Ahmed NAMISY (Taichung - TAIWAN)

P4.1-017 Investigating the mode of action of a new biofungicide | Sofia MONTANARI (San Michele All'adige (Tn) - ITALY)

P4.1-018 Study of the effect of diseases on oil plants: a case study of the sunflower plant | Maamar BOUKABCHA (Chief - ALGERIA)

P4.1-019 A snapshot of sensitivity of southeastern United States Monilinia fructicola isolates from peach to propiconazole and thiophanate methyl | Guido SCHNABEL (Clemson - UNITED STATES)

P4.1-020 Identification of 7-hydroxytropolone as an active molecule produced by Pseudomonas PA14H7 against Dickeya, causal agent of blackleg on potato | Euphrasie LEPINAY (Achicourt - FRANCE)

P4.1-021 Optimum timing of fungicide applications for managing kernel smut of rice | Xin-Gen ZHOU (Beaumont - UNITED STATES)

P4.1-022 Exploring alternatives and synthetic fungicides for apple bitter rot management in the mid-atlantic U.S.A. Srdan ACIMOVIC (Winchester - UNITED STATES)

P4.1-023 Evaluation of burkholderia glumae control in rice (oryza sativa) variety 67 with silver nanoparticles (AGNPS) Giovanni CHAVES-BEDOYA (Cucuta - COLOMBIA)

P4.1-024 Development of resources for control of stripe rust on wheat and barley in the United States Xianming CHEN (Pullman, Wa - UNITED STATES)

P4.1-025 Detection of Erwinia amylovora in apple rootstocks: a case study in high-density apple orchards Srdan ACIMOVIC (Winchester - UNITED STATES)

P4.1-026 In vitro and in situ antifungal activity of three plant extracts and two synthetic fungicides for the control of vascular wilt of oil palm caused by Fusarium oxysporum F. SP. elaiedis | Lilian Zemenjuh MOFORCHA (Buea - CAMEROON)

P4.1-027 Innovative optical device for real-time spore detection applied on grapevine downy and powdery mildew Sara LEONI (Nyon - SWITZERLAND)

P4.1-028 The plant pathology in the tropical plant health network scope | Adriano CUSTÓDIO (Londrina - BRAZIL)

P4.1-029 Screening of biocontrol solutions against black-rot (Guignardia Bidwellii), among registered anti-mildews biofungicides to design black rot control strategies for conventional and organic viticulture and the deployment of resistant varieties | Marie-Cécile DUFOUR (Villenave-D'ornon, France - FRANCE)

P4.1-030 Broad-spectrum control of foliar diseases with an enzyme-based biochemical pesticide Hilary MAYTON (Ithaca - UNITED STATES)

P4.1-031 Novel sources of resistance to soybean seedling disease pathogen Pythium irregulare Guohong CAI (West Lafavette - UNITED STATES)

P4.1-032 Exogenous application of methyl salicylate induces defense in brassica against peach potato aphid myzus persicae Jamin ALI (Newcastle Under Lyme - UNITED KINGDOM)

P4.1-033 A super absorbent polymer containing copper for controlling mal secco disease of lemon Federico LA SPADA (Catania - ITALY)

P4.1-034 Application of yeast, resistance inductors and multi-site fungicides in the control of diseases in cotton Solange Maria BONALDO (Sinop - BRAZIL)



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P4.1-035 Identification and fungicide sensitivity of xylaria sp. grown on shiitake wood log in Taiwan Shiang Shiuan YU (Taichung - TAIWAN)

P4.1-036 Efficacy of inorganic chemicals as plant resistance inducer on the control of potato common scab disease Ching Yi LIN (Chiayi City - TAIWAN)

P4.1-037 An integrated production chain for certified olive, citrus and fig propagation material in Greece Christina VARVERI (Kifissia, Athens - GREECE)

P4.1-038 Deciphering the influence of co-inoculation timing on antagonistic effects of Leptosphaeria biglobosa on I. maculans Evren BINGOL (Hatfield/hertfordshire - UNITED KINGDOM)

P4.1-040 Early blight comes late in Swedish ware potato | Eva EDIN (Västerås - SWEDEN)

P4.1-041 Evaluating the efficacy of phosphite and metalaxyl in Phytophthora root rot control in avocado Jacob JOSE (Brisbane - AUSTRALIA)

P4.1-042 Chemical priming of defence in forest health: oak diseases case of study Rosa SANCHEZ-LUCAS (Birmingham - UNITED KINGDOM)

P4.1-043 Tomato seed priming with water-soluble polysaccharides from jania adhaerens promotes plant growth and increases plant resistance to soilborne pathogens | Hillary RIGHINI (Bologna - ITALY)

P4.1-044 Study of anthracnose fruit rot & black leaf spot of strawberry in Pakistan and their bio-management using indigenous plants extracts | Nasir MEHMOOD (Rawalpindi - PAKISTAN)

P4.1-045 Monitoring and fungicide resistance allele detection of the wheat blast pathogen in paraná state, Brazil Adriano CUSTÓDIO (Londrina - BRAZIL)

P4.1-046 Evaluating hard squash cultivars for susceptibility to powdery mildew and fruit rot Carmen M. MEDINA-MORA (East Lansing - UNITED STATES)

P4.1-047 Identification of defence mechanisms in dormant seeds | Benjamin HUBERT (Angers - FRANCE)

P4.1-048 A weather-based model to predict the population of aureobasidium pullulans and to improve grey mold biological control | Odile CARISSE (430 Gouin Bvl. Saint-Jean-Sur-Richelieu - CANADA)

P4.1-049 Mechanism of ?-1,3-Glucanase cooperating with hsaf in lysobacter enzymogenes to antagonize Pythium Gaoge XU (Nanjing - CHINA)

P4.1-050 Integrated management for controlling vascular-streak dieback on cocoa in Indonesia Fakhrusy ZAKARIYYA (Jember - INDONESIA)

P4.1-051 Integrated management of insect vectors of pierce's disease in Taiwan I Yaw-Jen DONG (Taichung City - TAIWAN)

P4.1-052 Screening of novel plant activators that promote response to pathogens even under the eutrophic conditions Tetsutaro NAKAMURA (Yokohama - JAPAN)

P4.1-053 An overview of alternaria blight in broccoli in georgia, USA | Aparna PETKAR (Tifton - UNITED STATES)

P4.1-055 Prevention of stomatal entry as a strategy for plant disease control against foliar pathogenic Pseudomonas species Nanami SAKATA (Tsukuba - JAPAN)

P4.1-056 Genome-wide association mapping of resistance against rice blast strains in South China and identification of a New Pik Allele | Chenggang LI (Changsha - CHINA)

P4.1-057 New sources of resistance and heritability to wilt/root rot complex diseases in kabuli chickpea Tawffiq ISTANBULI (Zahle - LEBANON)

P4.1-058 Strawberry Botrytis cinerea control by plant extracts | Alma VALIUSKAITE (Babtai - LITHUANIA)

P4.1-059 Sustainable horticultural crops protection in lithuania | Alma VALIUSKAITE (Babtai - LITHUANIA)

P4.1-060 Integrated management to control blast disease of wheat | Salina BANU (Gazipur - BANGLADESH)

P4.1-061 Strawberry Botrytis cinerea control by led-light | Neringa RASIUKEVICIUTE (Babtai, Kaunas Disrt. - LITHUANIA)

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Hanumantha PAPPU (Pullman - UNITED STATES)

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Bart WUIJSTER (Emmeloord - NETHERLANDS)

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Alejandra JIMENEZ MADRID (Tifton - UNITED STATES)

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P4.2-080 Multilocus sequence typing (mlst) and phylogenetic study reveal species delimitation of Colletotrichum spp. associated with the dieback of quava | IQRA (Faisalabad - PAKISTAN)

P4.2-081 Two new qpcr assays for detection and quantification of Aspergillus flavus clade and Aspergillus parasiticus clade in maize kernels | Romain VALADE (Boigneville - FRANCE)

P4.2-083 Pantoea stewartii subsp. stewartii a molecular diagnostic method and barcoding to prevent the spread of the pathogen through maize trade | Valeria SCALA (Roma - ITALY)

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P4.2-098 Specific and sensitive detection tools for Xanthomonas arboricola pv. corylina, the causal agent of bacterial blight of hazelnut, developed with comparative genomics | Joël F. POTHIER (Wädenswil - SWITZERLAND)

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P4.2-102 Development of a real-time pcr for the detection and quantification of Fusarium equiseti inoculum in soil from lettuce fields | George T. TZIROS (Thessaloniki - GREECE)

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Buddhika AMARASIGNHE DAHANAYAKA (Toowoomba - AUSTRALIA)

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P4.3-017 Classification and characterization of Colletotrichum species associated with apple bitter rot in Korea Yongho JEON (Andong-Si - REPUBLIC OF KOREA)

P4.3-018 A multipurpose toolkit offered practical assistance to advanced functional analysis of Phytophthora sojae genes Qunqing WANG (Taian - CHINA)

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Pierre GLADIEUX (Montpellier - FRANCE)

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P4.3-024 Novel pipelines for assembling and annotation of genomes for plant pathogenic fungi. application on two major banana pathogens | Emmanuel WICKER (Montpellier - FRANCE)

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Hyo Jeong KIM (Jeju Special Self Governing Province - REPUBLIC OF KOREA)

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Ozgur BATUMAN (Immokalee - UNITED STATES)

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P4.4-012 Stronger together: synergy between an emerging monopartite begomovirus and a dna? B component Alassane OUATTARA (Ouagadougou - BURKINA FASO)

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Lawrence BRAMHAM (Harpenden - UNITED KINGDOM)

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P4.4-016 Factors affecting the population dynamics and epidemiology of viruses infecting potato

Christophe LACOMME (Edinburgh - UNITED KINGDOM)

P4.4-017 Emergence of cacao-infecting badnaviral species in the tropical americas and west Africa Judith K. BROWN (Tucson - UNITED STATES)

P4.4-018 Risk factors associated with cassava brown streak disease dissemination through seed pathways in eastern D.r. Congo | Kwibuka BISIMWA (Bukavu - THE DEMOCRATIC REPUBLIC OF THE CONGO)

P4.4-019 Effects of sowing cmv-infected lentil seed on growth and yield | Piotr TREBICKI (Sydney - AUSTRALIA)



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P4.4-020 Molecular characterization and prevalence of a novel strawberry crinivirus in Iran Ioannis TZANETAKIS (Fayetteville - UNITED STATES)

P4.4-021 Studying rose rosette emaravirus replication in its vector phyllocoptes fructiphilus Ioannis TZANETAKIS (Fayetteville - UNITED STATES)

P4.4-022 A novel ampelovirus infects blueberry | Ioannis TZANETAKIS (Fayetteville - UNITED STATES)

P4.4-023 Identification of apple luteovirus (ALV-1) and potential association with dieback of apple trees in northern Italy Valeria GUALANDRI (San Michele All'adige Trento - ITALY)

P4.4-024 Identification and distribution of viruses associated with bambara groundnut plants in burkina Faso Aboubié Elisabeth ZONGO (Ouagadougou - BURKINA FASO)

P4.4-025 Evaluation of bambara groundnut accessions for resistance to cowpea mosaic virus (Cabmv) in Burkina Faso. Aboubié Elisabeth ZONGO (Ouagadougou - BURKINA FASO)

P4.4-026 Prevalence and spatial distribution of badnavirus in the banana (musa spp) major growing areas in Burkina Faso Bakary OUATTARA (Ouagadougou - BURKINA FASO)

Advances in the use of exotic sentinel trees and novel monitoring programs to detect incipient threats posed by forest pathogens

P4.5-001 Sentinel plants: a strategy to prevent new invasive forest pest and pathogen introductions Alberto SANTINI (Sesto Fiorentino - ITALY)

P4.5-002 Revealing novel interactions between oak and tubakia species: evidence of the efficacy of the sentinel arboreta strategy | Andrea VANNINI (Viterbo - ITALY)

P4.5-003 Development of on-site quick diagnosis system for detecting Phytoplasma related diseases in South Korea Sun Keun LEE (Jeju - REPUBLIC OF KOREA)

P4.5-004 Development of markers for identifying spread routes of pine wood nematode in Korea Heonil KANG (Seoul - REPUBLIC OF KOREA)

P4.5-005 Four years of the European Union reference laboratory (eurl) for fungi and oomycetes Pedro Pablo PARRA GIRALDO (Malzéville - FRANCE)

P4.5-006 A retrospective of invasive forest pathogens in north america: biogeographic patterns and sentinel trees Geoffrey WILLIAMS (Lansing - UNITED STATES)

Impact of scientific advances in plant health

P4.7-001 Remote sensing in the contribution to the study of foliar diseases of cereals "approach to the epidemiological study and identification of barley dwarf yellows" in Algeria | Ahmed ZEGRAR (Arzew - ALGERIA)

P4.7-002 Biological and molecular characterisation of citrus viroid VII | Grant CHAMBERS (St Lucia - AUSTRALIA)

P4.7-003 Foxes in charge of henhouses: combatting sugarcane ration stunting disease (RSD) and its defenders in Australia Anthony YOUNG (Gatton - AUSTRALIA)

P4.7-004 Evaluating the oilseed rape growth-status using ndvi and ndyi obtained from uav-based RGB imagery Nazanin ZAMANI-NOOR (Braunschweig - GERMANY)

P4.7-005 Molecular evolution of chemosensory genes in beetles (COLEOPTERA): implications for their adaptation and speciation | Zedi GAO (Hertfordshire - UNITED KINGDOM)

P4.7-006 Investigating grape sour rot development in a commercial vineyard in Maryland, USA Mengjun HU (College Park - UNITED STATES)

P4.7-007 Taking a tour inside the kiwifruit microbiome: a study on the etiology of kiwifruit vine disease syndrome (KVDS) Antonella CARDACINO (Viterbo - ITALY)

P4.7-008 Identification and functional characterization of the immune activation-boosting domain of lilium defense-priming protein LSGRP1 | Chao-Ying CHEN (Taipei - TAIWAN)

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P4.7-009 Occurrence status of national management virus in chungcheongbuk-do province, Korea from 2020 to 2022 Eunsol YEON (Chengiu - REPUBLIC OF KOREA)

P4.7-010 Evaluation of the resistance to temporary and continuous water deficits of four varieties and six descendants of sesame (Sesamum Indicum L.) grown in Burkina Faso | Badoua BADIEL (Ouagadougou - BURKINA FASO)

P4.7-011 Chlorophyll fluorescence technique for screening the cold hardiness of olive (Olea Europaea L.) cultivars María Teresa GARCÍA LÓPEZ (Córdoba - SPAIN)

P4.7-012 The impacts of plant protection products on primary producers: an overview from the last decades' literature Annette BERARD (Avignon - FRANCE)

P4.7-013 Characterization of an isolate of the potyvirus passiflora virus y naturally infecting soybean in Brazil Daniele Maria NASCIMENTO (Botucatu - BRAZIL)

P4.7-014 Identification of two novel brevipalpus-transmitted viruses (btv) and recognition of a kitavirus as the causal agent of the citrus zonate chlorosis disease | Juliana FREITAS-ASTÚA (São Paulo - BRAZIL)

P4.7-015 Nutrients' effect prediction on wheat physiology by using machine learning | Chitaranjan MAHAPATRA (Mumbai - INDIA)

P4.7-016 Phenotyping for quantitative resistance to Leptosphaeria maculans in brassica napus (rapeseed): a framework using machine learning and artificial intelligence (MLAI) | Saba RABAB (Canberra - AUSTRALIA)

P4.7-017 Cal poly strawberry center is a model for industry-university partnerships Gerald HOLMES (San Luis Obispo - UNITED STATES)

P4.7-018 Basic substances as an environmentally friendly alternative to synthetic pesticides for plant protection: the experience of euphresco basics project | Gianfranco ROMANAZZI (Ancona - ITALY)

P4.7-019 Applications of chitosan alone, alternated or combined with copper for grapevine downy mildew management in large scale trials | Gianfranco ROMANAZZI (Ancona - ITALY)

P4.7-020 Metagenomic analysis of russian ampelographic collections | Svetlana VINOGRADOVA (Moscow - RUSSIAN FEDERATION)

P4.7-021 Viral metagenomics for plant virus discovery and detection: a case study of sweepoviruses in Australia Sharon L. VAN BRUNSCHOT (Brisbane - AUSTRALIA)

P4.7-022 Effect of silicon on plant growth and reducing disease in black pepper (Piper Nigrum L.) Siti Nordahliawate MOHAMED SIDIQUE (Kuala Nerus - MALAYSIA)



WEDNESDAY 23 & THURSDAY 24 AUGUST

POST-HARVEST - Part 1: Interactions of postharvest pathogens with the host and its microbiome

P2.5-001 Citrus fruit post-harvest fungal pathogens at pakistan's khanpur orchards | Shazia IFTIKHAR (Rawalpindi - PAKISTAN)

P2.5-002 Using genomics to study the function of the microbiome in the disease process in apple fruit after harvest Rotem BARTUV (Tel Aviv - ISRAEL)

P2.5-003 Identification of fungal species associated with diseases of cabbage in the western highlands of Cameroon Nsah SAMA (Bamenda - CAMEROON)

P2.5-004 Impact of microbial intervention on the assembly and dynamics of the apple fruit microbiome V. Yeka ZHIMO (Rishon Lezion - ISRAEL)

P2.5-005 Identification of fungi associated with mould of pome fruit stems and calyx sepals after ca storage Cheryl LENNOX (Stellenbosch - SOUTH AFRICA)

P2.5-006 The importance of a good recovery of the apple microbiota for the analysis of its microbiome Neus TEIXIDÓ (Lleida - SPAIN)

P2.5-007 Fungal community diversity in Citrus fruit at different ripening stage | Yanping FU (Wuhan - CHINA)

P2.5-008 The white-collar component bcwcl2 regulates citric acid secretion to maintain redox homeostasis and full pathogenicity in Botrytis cinerea | Pinkuan ZHU (Shanghai - CHINA)

P2.5-009 Metabolomics approach in post-harvest disease management in grapes using volatile organic compounds from yeast and bacteria | Subbaraman SRIRAM (Bengaluru - INDIA)

P2.5-010 Symptomatic and pathogenic characterization of alternaria species associated with Citrus postharvest diseases in Morocco | Lamyaa ZELMAT (Kénitra - MOROCCO)

P2.5-011 Reduce the post-harvest losses in organic beetroot production | Alessio BERNASCONI (Frick - SWITZERLAND)

P2.5-012 The efficacy of antagonistic yeasts against Botrytis cinerea on pomegranate fruits | Pervin KINAY TEKSUR (Izmir - TURKEY)

POST-HARVEST - Part 2: Sustainable managements of postharvest diseases: new technologies and approaches

P3.3-001 Pre and post harvest diseases of onion is a major threat in onion production and food security in Bangladesh Mohammad Monirul ISLAM (Gazipur - BANGLADESH)

P3.3-002 Impact of uv-c irradiation on alternaria leaf spot development in blueberries Carl SCHULENBURG (Pretoria - SOUTH AFRICA)

P3.3-003 Phytopathogens and postharvest disease management: a sustainable alternative antagonistic yeasts as biocontrol agents in fruit | Daniel FRIMPONG (Kumasi - GHANA)

P3.3-004 Postharvest use of natamycin, a biofungicide to control postharvest diseases of fresh fruits Chang-Lin XIAO (Parlier - UNITED STATES)

P3.3-005 In vitro inhibition of fungi causing postharvest gray and blue molds on fresh horticultural produce by agricultural by-product extracts | Lluís PALOU (Montcada - SPAIN)

P3.3-006 Growth inhibition of Colletotrichum musae using plant essential oils encapsulated in metal organic frameworks nanoporous materials | Johnrell ZUNIEGA (Montpellier - FRANCE)

P3.3-007 Potential of antagonistic yeasts, botanicals and chemicals for the management of green mould rot of kinnow mandarin caused by penicillium digitatum | Harender RAJ (Solan - INDIA)

P3.3-008 Hot water treatment improves peach fruit cold resistance through pphsfa4c-mediated hsf-hsp and ros pathways Liangyi ZHAO (Nanjing - CHINA)

P3.3-009 Shrimp waste extracts: a virtuous example of reuse of wastes to achieve the sustainable management of past-harvest diseases | Federico LA SPADA (Catania - ITALY)

P3.3-010 Effect of sowing time on disease management to increase quality, quantity and shelf life of tomato Salina BANU (Gazipur - BANGLADESH)

P3.3-011 Volatile organic compounds associated with neonectria ditissima infection in apples (malus pumila cv gala)
Asoo YAJI (Chatham - UNITED KINGDOM)

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- P3.3-013 Can onion storage diseases be detected by smell? | Isabella KLEMAN (Alnarp SWEDEN)
- P3.3-014 Biocontrol efficacy of wickerhamomyces anomalus on tomato field diseases and study of the relevant mechanisms via microbiome analysis | Qiva YANG (Zhenjiang CHINA)
- P3.3-015 Biocontrol ability and action mechanism of aureobasidium pullulans s2 against Botrytis cinerea in tomato fruit Hongyin ZHANG (Zhenjiang CHINA)
- P3.3-016 Native vineyard non-saccharomyces yeast used for biological control of fungal rot in stored table grape Antonella SALERNO (Turi ITALY)
- P3.3-017 Physicochemical properties of peach fruit assessed by non-destructive methodology related to the development of monilinia fructicola during post-harvest | Heloisa THOMAZI-KLEINA (Curitiba BRAZIL)
- P3.3-018 Optimization of tragacanth gum nanocapsules impregnated with peppermint essential oil for the extension of shelf life of chilli pepper | Oluwagbenga ADEOGUN (Lagos NIGERIA)
- P3.3-019 Efficacy of the gras salt sodium metabisulfite to control curatively postharvest fruit decay Mohamed Bechir ALLAGUI (Ariana TUNISIA)
- P3.3-020 Plant volatile organic compounds in fruit preservation: microbial inhibition, inductive defense and innovative applications | Zhenbiao LI (Hangzhou CHINA)
- P3.3-021 Evaluation of chitosan alone or mixed with sodium metabisulfite in controlling postharvest fruit decay Mouna BEN AMARA (Ariana TUNISIA)
- P3.3-022 Postharvest fungal diseases of pomegranates in southern Italy | Annamaria MINCUZZI (Bari ITALY)
- P3.3-023 Exploring the potential of natural and synthetic photosensitizing compounds for eco-friendly management of gray mold in strawberries | Amos Samkumar RAJAN PREMKUMAR (Ås NORWAY)
- P3.3-024 Efficacy of biofumigation with essential oils in the control of postharvest rots of nectarines Giulia REMOLIF (Grugliasco (To) ITALY)
- P3.3-025 Inhibitory activity of commercial essential oils in volatile phase against Botrytis cinerea and Monilinia laxa Gianfranco ROMANAZZI (Ancona ITALY)
- P3.3-026 Integration of transcriptomics and proteomics reveals the inhibitory effect of carvacrol on polysaccharides metabolism of the cell wall in alternaria alternata causing goji fruit rot | Junjie WANG (Yinchuan CHINA)
- P3.3-027 Strategies to overcome stem end rot disease in Pakistan mangoes, a major threat in export markets Abdul REHMAN (Faisalabad PAKISTAN)
- P3.3-028 Genome-scale phylogenetic and syntenic analyses reveal relationship among Monilinia fructicola, Monilinia laxa and Monilinia fructigena within Sclerotiniaceae | Gianfranco ROMANAZZI (Ancona ITALY)
- P3.3-029 Chitosan and other edible coatings to extend shelf life, manage postharvest decay, and reduce loss and waste of fresh fruits and vegetables | Gianfranco ROMANAZZI (Ancona ITALY)
- P3.3-030 Antifungal activity of natural extracts and essential oils against Monilinia fructicola in vitro and as ingredients of pectin-based edible coatings for postharvest preservation of cold-stored nectarines | Laura SETTIER RAMÍREZ (Valencia SPAIN)
- P3.3-031 Management of guava anthracnose through synthetic fungicides and medicinal plant extracts Muhammad Faran TAHIR (Faisalabad PAKISTAN)
- P3.3-032 Innovative sustainable technologies to extend the shelf life of perishable mediterranean fresh fruit, vegetables, and aromatic plants and to reduce waste: the experience of prima stopmedwaste project | Gianfranco ROMANAZZI (Ancona ITALY)
- P3.3-033 Management of postharvest brown rot of peaches and nectarines by natural compounds and biocontrol agents Gianfranco ROMANAZZI (Ancona ITALY)
- P3.3-034 In vitro antimicrobial activity of chitosan hydrochloride and cos (chito-oligosaccharides)-oga (oligo-galacturonides) on field and postharvest fungal pathogens | Gianfranco ROMANAZZI (Ancona ITALY)
- P3.3-035 Physiological changes induced after ozone treatment on peach fruits | Gianfranco ROMANAZZI (Ancona ITALY)
- P3.3-036 Effects of ozone exposure on brown rot of peach fruits in cold storage | Gianfranco ROMANAZZI (Ancona ITALY)
- P3.3-037 In vitro and in vivo effect of natural salts to control postharvest Citrus green mold disease caused by penicillium digitatum in Morocco | Meriem HAMRANI (Kenitra MOROCCO)
- P3.3-038 Development of cassava starch-based coatings functionalized with antifungal agents as an alternative postharvest treatment to improve quality and extend shelf life of cavendish bananas | Andrés PINZON (Carepa COLOMBIA)



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POST-HARVEST - Part 3: Eco-epidemiological perspectives generating new concepts on postharvest diseases and mycotoxins

P4.6-001 Susceptibility to sour rot (geotrichum citri-aurantii) in mandarin and hybrids in association with fruit quality parameters | Elena PEREZ (Salto - URUGUAY)

Modeling and analysis to better understand and predict epidemics

P5.1-001 Genetic variations among commercial varieties and landraces of wheat from pakistan Shazia IFTIKHAR (Rawalpindi - PAKISTAN)

P5.1-002 Cross infection of botryosphaeria spp. causing dieback in fruit trees in Chile | Gonzalo DIAZ (Talca - CHILE)

P5.1-003 Role of seed transmission of Magnaporthe oryzae pathotype triticum (mot) for the epidemiology of wheat blast Musrat Zahan SUROVY (Goettingen - GERMANY)

P5.1-004 Population genetics of ganoderma boninense, the causal agent of basal stem rot of oil palm in malaysia and indonesia | Hun Jiat TUNG (Semenyih - MALAYSIA)

P5.1-006 Epidemiological characterization of mulberry rust in brazil | Lilian AMORIM (Piracicaba - BRAZIL)

P5.1-007 Temporal and spatial progress of raspberry late rust in two cropping systems in brazil Daiana AZEVEDO (Piracicaba - Sp - BRAZIL)

P5.1-008 Witches' broom disease of acid lime (Citrus aurantifolia I.): research findings and future prospects
Abdullah AL-SADI (Seeb - OMAN)

P5.1-009 Monitoring of venturia paralias, a fungal biocontrol agent for the invasive coastal weed sea spurge (euphorbia paralias), reveals patterns of disease establishment and spread in australia | Gavin HUNTER (Canberra - AUSTRALIA)

P5.1-010 Factors influencing hull rot of almonds in australia | Tonya WIECHEL (Bundoora - AUSTRALIA)

P5.1-011 Biological resource centers: strategic resources for plant health | Perrine PORTIER (Angers - FRANCE)

P5.1-012 Pathogenic characterization of three Fusarium species associated with onion (allium cepa I.) in Burkina Faso Kouka Hamidou SOGOBA (Ouagadougou - BURKINA FASO)

P5.1-013 Sporulation and dispersal of the biological control agent Aspergillus flavus af36 under field conditions in California María Teresa GARCÍA LÓPEZ (Cordoba - SPAIN)

P5.1-014 Understanding the epidemiology and ecology of carrot viruses in the United Kingdom Mary MYNETT (York - UNITED KINGDOM)

P5.1-015 Study of chilli anthracnose disease; a potential threat to chilli crop in major chilli producing areas of punjab, pakistan Nasir MEHMOOD (Rawalpindi - PAKISTAN)

P5.1-016 Population genetic relationships of wheat Puccinia triticina between yunnan-guizhou and northwest, central and eastern China | Wanquan CHEN (Beijing - CHINA)

P5.1-017 Monitoring spore dispersal and early infections of diplocarpon coronariae causing apple blotch using spore traps and a new qpcr method | Clémence BOUTRY (Frick - SWITZERLAND)

P5.1-018 Morphological and pathogenic variability of Austropuccinia psidii from guava and rose apple Thaís R. BOUFLEUR (Piracicaba - BRAZIL)

P5.1-019 Current epidemiological situation of mealybug wilt of pineapple disease in Ecuador Juan CORNEJO (Guayaquii - ECUADOR)

P5.1-020 Impact of cultivar resistance on cercospora beticola epidemiology on sugar beet | Yixuan YANG (Göttingen - GERMANY)

P5.1-021 Partial resistance to myrtle rust on guava cv. suprema expressed by reduction of urediniospore production of Austropuccinia psidii | Lucas SALES (Piracicaba - BRAZIL)

P5.1-022 Large-scale ecological surveys across arable landscape to describe the epidemiology of vector-borne phytobacterium Candidatus liberibacter solanacearum in the uk | Marco BENUCCI (York - UNITED KINGDOM)

P5.1-023 Inventory of leaf diseases of peanut in Burkina Faso and epidemiological study of associated viruses Dadjata KERE (Ouagadougou - BURKINA FASO)

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P5.1-024 Damage to guava plants caused by multiple infections of Austropuccinia psidii | Ana Laura SIMÕES (Piracicaba - BRAZIL)

P5.1-025 Research on meteorological factors related to the incidence of rice false smut

Hyunjoo RYU (Wanju-Gun - REPUBLIC OF KOREA)

P5.1-026 Gene drift, sexual reproduction, and sexual recombination of Puccinia striiformis f. sp. tritici and Puccinia striiformis f. sp. tritici and Puccinia striiformis f. sp. hordei | Jie ZHAO (Yangling - CHINA)

P5.1-027 Ascospore release by neonectria ditissima in norway | Dalphy HARTEVELD (Ås - NORWAY)

P5.1-028 Groundwater as a reservoir for plant pathogenic bacteria: the case of the Pseudomonas syringae complex in the alluvial aquifer of avignon | Odile BERGE (Avignon - FRANCE)

P5.1-029 Epidemiology and genetics of the wheat yellow rust fungus | My LIVBJERG (Slagelse - DENMARK)

P5.1-030 Potential impacts of climate change on important wheat and maize diseases in egypt Benjamin RICHARD (Lyon - FRANCE)

P5.1-031 Detection of Phytophthora palmivora causative agent of the disease bud rot in soil and irrigation water in an oil palm plantation in colombia | Leon Franky ZUÑIGA (Bogotá D. C - COLOMBIA)

P5.1-032 Effect of the trunk shaker harvesting on the dispersion of venturia oleaginea spores, the causal agent of olive scab Juan MORAL (Cordoba - SPAIN)

P5.1-033 Relative contribution of local and landscape factors on the co-occurrence, diversity and severity of wheat diseases Anne-Lise BOIXEL (Palaiseau - FRANCE)

P5.1-034 Epidemiology of cacao mild mosaic virus (cammv) | Alina PUIG (Fort Detrick - UNITED STATES)

P5.1-035 Analysis of literature data may increase the epidemiological knowledge on grapevine trunk diseases Irene SALOTTI (Piacenza - ITALY)

P5.1-036 Re-assessing the susceptibility period of Citrus fruit to phyllosticta citricarpa infection in South African orchards Providence MOYO (Nelspruit - SOUTH AFRICA)

P5.1-037 Symptoms in immature and ripe apple fruit caused by Colletotrichum species isolated from glomerella leaf spot Louise Larissa MAY DE MIO (Curitiba - BRAZIL)

P5.1-038 Evaluating the climatic suitability of the mediterranean basin for Citrus black spot (phyllosticta citricarpa) through a generic infection model | Elena LÁZARO (Moncada - SPAIN)

P5.1-040 Modeling the spatial spread of yam mosaic virus (ymv) in seed yam fields in Nigeria Bolaji OSUNDAHUNSI (Ibadan - NIGERIA)

P5.1-041 Surveillance and mitigation strategies for wheat based on crop landscapes, trade networks, and the ecological niches of 100 pathogens | Aaron Isai PLEX SULA (Gainesville - UNITED STATES)

P5.1-042 Exploring the diversity and prevalence of Pseudomonas syringae in sweet cherry orchards of new zealand M. Virginia MARRONI (Lincoln - NEW ZEALAND)

P5.1-043 Complementary approaches to quantify and characterize inocula dynamics and leaf infection at plot level: case of black leaf streak disease | Marine SEIDEL (Capesterre-Belle-Eau - GUADELOUPE)

P5.1-044 Grapevine trunk disease pathogens in rootstock mother vines: a potential threat to the South African grapevine industry | Francois HALLEEN (Stellenbosch - SOUTH AFRICA)

P5.1-045 Epidemiological, evolutionary and economic outcomes associated to the coexistence of monogenic and pyramided resistant cultivars in agricultural landscapes: a case-study with the management of downy mildew in wine growing areas Frédéric FABRE (Villenave D'ornon - FRANCE)

P5.1-046 Colletotrichum population structure in olive orchards from the region of preveza, greece and effect on olive oil quality | Aliki K. TZIMA (118 55 Athens - GREECE)

P5.1-047 Tracking asian soybean rust in brazil | Claudia GODOY (Londrina - BRAZIL)

P5.1-048 Economic inefficiencies in private management of epidemics spreading between farms Gaël THÉBAUD (Montpellier - FRANCE)

P5.1-049 Model-based characterization of interactions between plum pox virus strains from a field survey Gaël THÉBAUD (Montpellier - FRANCE)



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P5.1-050 Glomerella leaf spot in apple orchards of south tyrol (Italy) and the development of control strategies Sabine OETTL (Auer/ora - ITALY)

MOLECULAR ASPECTS: plant-oomycetes interactions

P5.2-001 The infection biology of Plasmodiophora brassicae-cause of cruciferous clubroot disease | Lijiang LIU (Wuhan - CHINA)

P5.2-002 Phytophthora cinnamomi crn effectors: foot soldiers of Phytophthora root rot

Kayla Alexis MIDGLEY (Pretoria - SOUTH AFRICA)

P5.2-003 Host pathogen interaction between European strains of red algae 'bangia' and oomycete olpidiopsis porphyrae var. scotiae | Basem ATTAR (Newcastle Upon Tyne - UNITED KINGDOM)

P5.2-004 Phytophthora parasitica "core" rxlr effector proteins induce host defences | Celiwe NXUMALO (Pretoria - SOUTH AFRICA)

P5.2-005 Membrane-associated nac transcription factors - versatile role in plant stress adaptation

Claudia MEISRIMLER (Christchurch - NEW ZEALAND)

P5.2-006 The role of Phytophthora pluvialis rxlr effectors during early infection of pinus radiata Sophie ECCERSALL (Christchurch - NEW ZEALAND)

P5.2-008 Phenotypic and genotypic diversity of Phytophthora infestans populations in Algeria | Sihem BELKHITER (Blida - ALGERIA)

P5.2-009 Phytophthora exploits host trehalose metabolism to acquire carbon as a nutrient source | Yongli QIAO (Shanghai - CHINA)

P5.2-010 Transcriptome analysis of capsidiol-mediated defense in pepper against adapted and non-adapted Phytophthora pathogen | Hyun-Ah LEE (Cheonan - REPUBLIC OF KOREA)

P5.2-011 Traffic manipulation: a conserved Phytophthora effector targets a host rabgap protein to suppress defense-related secretion | Enoch Lok Him YUEN (London - UNITED KINGDOM)

P5.2-012 Placing the spotlight on the npr1-dependent defence response in persea americana (mill.): insights from a time course dual rna-sequencing study of both a susceptible and partially resistant rootstock inoculated with Phytophthora cinnamomi | Robert BACKER (Pretoria - SOUTH AFRICA)

P5.2-013 Xeg1: a case study on microbial attack and plant immunity in the apoplast | Yeqiang XIA (Nanjing - CHINA)

P5.2-014 Xeg1: a case study of microbial attack and plant immunity in the apoplast | Yuanchao WANG (Nanjing - CHINA)

P5.2-015 A Phytophthora sojae rxlr effector impact host defense-oriented transcriptome reprogramming by targeting soybean mediator subunit 21 | Qunqing WANG (Taian - CHINA)

P5.2-016 Understanding the early events of plant infections by oomycetes, at new spatio-temporal scales: from attraction and aggregation of zoospores to host penetration | Agnes ATTARD (Sophia Antipolis - FRANCE)

P5.2-017 Differences in avr-vnt1 alleles and aggressiveness in three European Phytophthora infestans lineages Mirella LUDWICZEWSKA (Mlochów - POLAND)

P5.2-018 Adapting to survive: the key to the success of the biotrophic pathogen plasmopara viticola Giuliana MADDALENA (Milan - ITALY)

P5.2-019 Revealing principles of Phytophthora zoospores sensing and motion properties through a bio-physical approach Carlotta Aurora LUPATELLI (Sophia Antipolis - FRANCE)

P5.2-020 Phase-specific transcriptional patterns of the oomycete pathogen Phytophthora sojae unravel genes essential for asexual development and pathogenic processes | Min QIU (Nanjing - CHINA)

P5.2-021 The non-canonical and oomycete-specific bag is essential for the maintenance of proteostasis in Phytophthora sojae cyst germination | Maofeng JING (Nanjing - CHINA)

P5.2-022 An ago protein is required for avirulence gene silencing in an oomycete plant pathogen | Han CHEN (Nanjing - CHINA)

P5.2-023 Slims go big: role of short linear motifs (slims) in phytophtora parasitica "core" pprxlr1 effector Jane CHEPSERGON (Pretoria - SOUTH AFRICA)

P5.2-024 Pectin methylesterases inhibitor modulate plant homogalacturonan status in defenses against the Phytophthora sojae | Yeqiang XIA (Nanjing - CHINA)

P5.2-025 Investigation of the role in virulence of Phytophthora infestans effector pi06099 Hazel MCLELLAN (Dundee - UNITED KINGDOM)

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P5.2-026 Functional divergence of a glycoside hydrolase and its decoy partner in Phytophthora evolutionary continuum Zhenchuan MA (Nanjing - CHINA)

P5.2-027 Screening of alfalfa varieties resistant to Phytophthora cactorum and related resistance mechanism Bo YANG (Nanjing - CHINA)

P5.2-028 Rnaseq vs enrichment sequencing techniques: lifting the lid on the potato-p. infestans interactions Amanpreet KAUR (Carlow - IRELAND)

P5.2-029 The strawberry-Phytophthora cactorum interaction | May Bente BRURBERG (Ås - NORWAY)

P5.2-030 Punching transient small holes into plant plasma membrane: the unique case of an oomycete nlp cytolysin Tina SNOJ (Ljubljana - SLOVENIA)

P5.2-031 Renseq as a robust tool to identify novel disease resistance genes in wild and cultivated potatoes Sharma VIKRANT (Dundee - UNITED KINGDOM)

Current and emerging forest pathology issues

P5.3-001 Laurel wilt disease management: current strategies and ongoing lines of research Romina GAZIS (Homestead - UNITED STATES)

P5.3-002 Extent of dalbergia sissoo (shisham) decline in different agro-ecological zones and its integrated management Muhammad MUSA (Lahore - PAKISTAN)

P5.3-003 Occurrence of cypress canker pathogens on cupressaceae in South Africa | Janneke AYLWARD (Pretoria - SOUTH AFRICA)

P5.3-004 Occurrence of some emerging powdery mildews on ornamental and forest trees in Algeria: a threat to parks, avenues and public recreation areas | Zouaoui BOUZNAD (Algiers - ALGERIA)

P5.3-005 Climatic drivers of Phytophthora pluvialis infection and sporulation on pinus radiata Emily MCLAY (Rotorua - NEW ZEALAND)

P5.3-006 Beech leaf disease: a emerging issue of international concern | Pierluigi BONELLO (Columbus, Oh - UNITED STATES)

P5.3-007 Impacts of enhanced co2 on oak defences against powdery mildew

Rosa SANCHEZ-LUCAS (Birmingham - UNITED KINGDOM)

P5.3-008 Erysiphe Ionicerigena sp. nov., a powdery mildew species found on Ionicera harae Inyoung CHOI (Jeonju - REPUBLIC OF KOREA)

P5.3-009 Early detection methods to prevent the spread of forest pathogens | Alberto SANTINI (Sesto Fiorentino - ITALY)

P5.3-010 Rna viruses in declining mediterranean forests | Julio Javier DIEZ (Palencia - SPAIN)

P5.3-011 Verticillium wilt and mortality of ailanthus altissima in catalonia (northeastern Spain). disease distribution and pathogen characterization | Júlia CAROL ANDREU (Girona - SPAIN)

P5.3-012 Blast from the past: a study of decades-old fungal cultures resolves a long-standing tree disease mystery Michael WINGFIELD (Pretoria - SOUTH AFRICA)

P5.3-013 The ophiostomatoid fungi in Korea | Sang-Tae SEO (Seoul - REPUBLIC OF KOREA)

P5.3-014 Phytophthora species assemblages in kauri forests: comparing isolation through baiting and metabarcoding Shannon HUNTER (Auckland - NEW ZEALAND)

P5.3-015 Low genetic diversity in colombia Fusarium circinatum population | Brenda WINGFIELD (Pretoria - SOUTH AFRICA)

P5.3-016 Multivariate analysis and modelling of scots pine blister rust distribution in central and northern Sweden Ke ZHANG (Uppsala - SWEDEN)

P5.3-017 A study of tree disease on st helena | Amy WEBSTER (Birmingham - UNITED KINGDOM)

P5.3-018 Investigating the variation in virulence of hymenoscyphus fraxineus, the causal agent of ash dieback Maia RIDLEY (Braunschweig - GERMANY)

P5.3-019 Insights into the biology, host range and potential pathways of Phytophthora pluvialis in Britain Ana Maria PEREZ SIERRA (Farnham, England - UNITED KINGDOM)

P5.3-020 Chemotyping European and Asian fraxinus: understanding host defence mechanisms associated with resistance against the ash dieback pathogen hymenoscyphus fraxineus | Beatrice TOLIO (Alnarp - SWEDEN)



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- P5.3-022 The travails of troublesome travelers: distribution of thousand cankers disease complex members into expanded ranges alters the genetic signatures of their populations | Denita HADZIABDIC (Knoxville UNITED STATES)
- P5.3-023 Brazilian research about sanity in forest seeds | Thiago Costa FERREIRA (Lagoa Seca BRAZIL)
- P5.3-024 Ganoderma root rot: an emerging threat to eucalyptus plantations in indonesia

Samuel A. SANTOS (Pangkalan Kerinci - INDONESIA)

P5.3-025 Population studies suggest multiple introductory events of dothistroma pini into France Irene BARNES (Pretoria - SOUTH AFRICA)

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- P5.4-003 Qoi fungicide resistance in sunflower phomopsis | Febina MATHEW (Fargo UNITED STATES)
- P5.4-005 Dmi resistance in cercospora beticola is modulated by cyp51 codon bias | Melvin BOLTON (Fargo UNITED STATES)
- P5.4-006 Location, location: the first rule of postharvest epidemiology for locating fungicide resistant blue mold fungi in commercial packinghouses | Johanny CASTRO (Biglerville UNITED STATES)
- P5.4-008 The in vitro and in vivo phosphite sensitivity of Phytophthora cinnamomi isolates from avocado orchards in Taiwan Yu-Ping LIANG (Chiayi City TAIWAN)
- P5.4-009 Detection and characterization of fungicide resistant net blotch pathogen Pyrenophora teres f. teres isolates from estonia | Riinu KIIKER (Jõgeva Alevik ESTONIA)
- P5.4-010 Proteomic analysis revealed that the oomyceticide phosphite may possess a multi-modal function in an oomycete pathosystem | Kar-Chun TAN (Perth AUSTRALIA)
- P5.4-011 Mefenoxam sensitivity typing of South African Phytophthora isolates | Heike MÖLLER (Stellenbosch SOUTH AFRICA)
- P5.4-012 Cross-resistance of clarireedia jacksonii to dmi fungicides | Andrea RETHER (Guelph CANADA)
- P5.4-013 Fungicide resistance action committee (frac) moa poster | Stefano TORRIANI (Stein SWITZERLAND)
- P5.4-014 Development of a microplate absorbance assay for assessing fungicide sensitivity of filamentous fungi and comparison to an amended agar assay | Edward MCNAB (Guelph CANADA)
- P5.4-015 Fungicide resistance occurrence in the cucurbit powdery mildew fungus in the United States Margaret MCGRATH (Riverhead, Ny UNITED STATES)
- P5.4-016 Does resistance of winter wheat varieties affect the infection and spread of fungicide-resistant Zymoseptoria tritici mutants? | Beatrice BERGER (Braunschweig GERMANY)
- P5.4-017 Fungicide sensitivity and fitness profiles of venturia inaequalis: an integrated approach to effective apple scab control | Beatrice LECCHI (Milano ITALY)
- P5.4-018 Dose responses of reduced sensitive and resistant isolates of Pyrenophora teres f. maculata and p. teres f. teres to demethylase inhibitor and succinate dehydrogenase inhibitor fungicides | Ayalsew ZERIHUN (Bentley AUSTRALIA)
- P5.4-019 Resistance of Phytophthora colocasiae to azoxystrobin in fujian, China | Fengping CHEN (Fuzhou CHINA)
- P5.4-020 Geograpy is the main factor behind the distribution of a dmi-fungicide resistance marker in Erysiphe necator Alexandra PINTYE (Budapest HUNGARY)

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P5.4-022 Naturally occurring propiconazole-tolerant fungal isolates in the phyllosphere of agrostis stolonifera Tom HSIANG (Guelph - CANADA)

P5.4-023 Differential sensitivity to single-site fungicides may explain why ramulariopsis pseudoglycines is the prevalent ramulariopsis species associated with ramularia leaf spot (rls) in commercial upland cotton fields in brazil Sergio BROMMONSCHENKEL (Viçosa - BRAZIL)

Immune receptors: activation, signaling & evolution

P5.5-001 Arabidopsis thaliana cell surface receptor signalling for recognition of elicitors of Fusarium spp. Ralph HÜCKELHOVEN (Freising - GERMANY)

P5.5-002 Find the needle in the haystack - identification of the immune receptors required for the recognition of Ralstonia solanacearum effectors in nicotiana benthamiana | Cecile SEGONZAC (Seoul - REPUBLIC OF KOREA)

P5.5-003 Establishing a haplotype-resolved nirome for the cavendish banana | Anthony JAMES (Brisbane - AUSTRALIA)

P5.5-004 High-throughput analysis of rpi genes in potato cultivars, breeding lines and wild solanum species Paulina PALUCHOWSKA (Mlochów - POLAND)

P5.5-005 The i resistance gene against bcmv and bcmnv in common bean: identification of the molecular basis through two independent mutants | Juan Camilo ALVAREZ-DIAZ (Orsay - FRANCE)

P5.5-006 Resistance to Fusarium wilt in heirloom cultivar "earliglow" is conferred by unlinked resistance genes on chromosome 2b in strawberry | Mishi V. VACHEV (Davis - UNITED STATES)

P5.5-007 Presence of homologues of the pvy resistance gene rysto in wild relatives of potato | Zhimin YIN (Mlochow - POLAND)

P5.5-008 The soybean (glycine max) lysm receptor kinases gmnfr5a and gmcerk1 mediate chitooligosaccharides-triggered immunity | Guangzheng SUN (Nanjing - CHINA)

P5.5-009 A novel soybean apoplastic protein triggers resistance to phakopsora pachyrhizi | Jinbin WU (Nanjing - CHINA)

P5.5-010 Birth, death, and persistence in nlr diversity in the arabidopsis immune system | Luisa TEASDALE (Tübingen - GERMANY)

P5.5-011 Atlas of tandem kinase proteins across the plant kingdom | Tamara REVEGUK (Haifa - ISRAEL)

P5.5-012 Dissection of a rapidly evolving wheat nlr resistance gene cluster by ont long-read genome sequencing facilitated the cloning of pm69 | Tzion FAHIMA (Haifa - ISRAEL)

The Potential of Seed Microbiomes

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P5.6-002 Inheritance and variability of seed microbiota in rice | Hyun KIM (Seoul - REPUBLIC OF KOREA)

P5.6-003 Analysis of tomato seed microbiome and its biological activities | Kihyuck CHOI (Busan - REPUBLIC OF KOREA)

P5.6-004 Parental inheritance of the seed microbiome in European ash (fraxinus excelsior) | Feng LONG (Copenhagen - DENMARK)

P5.6-005 Impact of some seed-borne pathogens and seed health treatment on soybean and maize cultivation José CRUZ MACHADO (Lavras - BRAZIL)

Plant pathogens interactions in multi stress conditions (abiotic and biotic stresses): viruses and other pathogens?

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P5.7-004 Coronatine orchestrates abi1-mediated stomatal opening to facilitate bacterial pathogen infection Ning XU (Beijing - CHINA)

P5.7-005 Identification of heat-tolerant blast resistance genes in rice | Hong-Hua CHEN (Taipei - TAIWAN)

P5.7-006 Effect of drought on grapevine wood fungal pathogen communities using a metatranscriptomics approach Marie CHAMBARD (Villenave D'ornon - FRANCE)

P5.7-007 Strategies for biotic stress management in pulses under changing climate | Mamta SHARMA (Hyderabad - INDIA)

P5.7-008 Role of shared intergenic regulatory elements in enhanced resistance to combined stresses in rice Federico MARTIN (Fort Collins, Co - UNITED STATES)

P5.7-009 Understanding the impacts of heat stress on bacterial blight resistance genes in rice Jennifer SHIPP (Fort Collins - UNITED STATES)

P5.7-010 Raspberry physiology and late leaf rust severity in plants under water stress after the pathogen infection Lucas BARBOSA (Piracicaba - BRAZIL)

P5.7-011 Apoplastic metabolic and proteomic contents are affected by abiotic stress and control pathogen virulence Mathilde FAGARD (Versailles - FRANCE)

P5.7-012 Effects of combined abiotic and pathogen stress in pomegranate (punica granatum I.) | Silvio TUNDO (Legnaro - ITALY)

P5.7-013 Analyzing the genomic variations in the pathogenic population under host genotype x environment x pathogen interactions | Amanpreet KAUR (Auburn - UNITED STATES)

PROGRESS IN DISEASE CONTROL - Part2

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P6.1-002 Effects of seed pretreatments with mixed bioproducts for improving disease tolerance and growth of pepper seedlings | Cristina PETRISOR (Bucharest - ROMANIA)

P6.1-003 Virulence and azoxystrobin sensitivity analysis of the strawberry neopestalotiopsis crown rot pathogens from China E-Jiao WU (Nanjing - CHINA)

P6.1-004 Dynamics of total, viable and culturable states of two bacterial biological control strains applied to grapevine and fruit-tree crops | Anna BONATERRA (Girona - SPAIN)

P6.1-005 Potential of an experimental Bacillus velezensis strain as a biocontrol agent to control grapevine black rot disease Robin RAVEAU (Villenave D'ornon - FRANCE)

P6.1-006 Effects of flubeneteram on inhibiting the development of Puccinia striiformis f. sp. tritici in wheat leaves Gangming ZHAN (Yangling - CHINA)

P6.1-007 Evaluation of fungicides and fungicide application methods to manage Phytophthora blight of pigeonpea Ramanagouda GAVIYAPPANAVAR (Hyderabad - INDIA)

P6.1-008 Controlling cucumber powdery mildew and anthracnose by Bacillus velezensis strain tcb43 Chien-Chih KUO (Changhua - TAIWAN)

P6.1-009 Teach me how to protect you: the grapevine lesson on downy mildew control | Silvia Laura TOFFOLATTI (Milano - ITALY)

P6.1-010 Bismuth subsalicylate, a fungistatic compound and plant defence stimulator with potential for management of grapevine trunk diseases | Loriane MERLEN (Colmar - FRANCE)

P6.1-011 Combined effect of abiotic parameters on Trichoderma sp. growth with biocontrol potential on stored grain phytopathogens | Roxana ZAHARIA (Bucharest - ROMANIA)

P6.1-012 Biocidal activity of plant by-products to control plant diseases using foliar applications Mahyar MIRMAJLESSI (Ghent - BELGIUM)

P6.1-013 Improving blast resistance of the rice cultivar 'kaohsiung 145' using multiline variety and gene pyramiding strategies Yu-Hsin HUANG (Taipei City - TAIWAN)

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P6.1-016 Eficacy and compatibility of biological agents and chemical fungicides for the manegement of Sclerotinia sclerotiorum on soybean | Natasha Akemi HAMADA (Palmas - BRAZIL)

P6.1-017 Use of copper-based fungicides in organic agriculture in twelve European countries | Lucius TAMM (Frick - SWITZERLAND)

P6.1-018 Evaluation of mycoparasitic fungi as potential biological control agents for wattle rust (uromycladium acaciae)
Nonkululeko POSWA (Pietermaritzburg - SOUTH AFRICA)

P6.1-019 Antifungal activity of bioactive molecules isolated from agricultural waste against rice blast fungus Sharmila GHOSH (Milan - ITALY)

P6.1-020 Efficacy of in-furrow fungicide application to manage southern blight in mississippi peanut fields Subina TRIPATHI (Stoneville - UNITED STATES)

P6.1-021 Arabinogalactan protein-like proteins from ulva lactuca activate immune responses and plant resistance in an oilseed crop | Eric NGUEMA-ONA (Saint-Malo - FRANCE)

P6.1-022 Biotechnologically produced bioactive compounds of plant origin to exploit in plant protection Emmanouil TRANTAS (Heraklion - GREECE)

P6.1-023 Psa3 virulence reduction by natural molecules: insights on subtle regulation mechanisms | Davide DANZI (Verona - ITALY)

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P6.1-025 Biochemical changes in Vitis vinifera leaves and responses to Botrytis cinerea infection after the application of a yeast extract formulate | Giulia SCIMONE (Pisa - ITALY)

P6.1-027 Diversity of strains of Ralstonia solanacearum species complex in benin in west Africa Sanju KUNWAR (Gainesville - UNITED STATES)

P6.1-028 Integrated management to control barley diseases | Neil D HAVIS (Edinburgh - UNITED KINGDOM)

P6.1-029 New fungicide alternatives to fumigation for managing potato early die | Katie MALEK (Aberdeen - UNITED STATES)

P6.1-030 Evaluation of fungicide programs for the management of aerial stem rot in potato Alan MALEK (Aberdeen - UNITED STATES)

P6.1-031 Adaptive melanisation and tolerance under uv-c light | Crystal TURNBULL (Ås - NORWAY)

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P6.1-033 Managing tomato health: comparing the efficacies of aqueous extracts of neem tree (azadirachta indica juss) parts and furadan 5g on root knot nematodes infecting tomatoes (lycopersicon esculentum) in ishiagu, southeast Nigeria Solomon Ifeayoluchi OGWULUMBA (Ishiagu - NIGERIA)

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Anne SICARD (Colmar - FRANCE)

P6.1-035 Management of white rust (albugo candida) disease of red amaranth for seed production Abu Noman Faruq AHMMED (Dhaka - BANGLADESH)

P6.1-036 Comparative evaluation of chemical fungicides against sheath blight disease of rice in aman season Abu Noman Faruq AHMMED (Dhaka - BANGLADESH)

P6.1-037 Cross-protection, a viable method to fight fanleaf degeneration? study of 14-year-old primary-infected vines in a vineyard plot | Julie KUBINA (Colmar - FRANCE)

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P6.1-040 Nanoparticles as hammer of thor against Pseudomonas syringae causing apical necrosis in mango Asif Mahmood ARIF (Faisalabad - PAKISTAN)



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P6.1-043 The potential of African nightshade as a 'dead end trap crop' for management of potato cyst nematodes Miriam KUNGU (Nairobi - KENYA)

P6.1-044 Efficiency of elicitors on induced resistance against cassava root rot disease Chanon SAENGCHAN (Nakhon Ratchasima - THAILAND)

P6.1-045 Use of agricultural waste and indigenous antagonistic fungi for controlling root knot nematodes (meloidogyne spp.) on potato in north sumatra, indonesia | Lisnawita LISNAWITA (Medan - INDONESIA)

P6.1-046 Eugenol, isoeugenol, thymol, carvacrol, and ester derivatives as an ecofriendly option to control Colletotrichum chrysophillum and Colletotrichum nymphaeae | Louise Larissa MAY DE MIO (Curitiba - BRAZIL)

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P6.1-048 The occurrence of alternaria species involved in dieback of pinus pinea in Tunisia | Sawssen HLAIEM (Ariana - TUNISIA)

P6.1-049 Modeling multiple pests for agroecological protection of rice in cambodia | Mathilde DIONISI (Montpellier - FRANCE)

P6.1-050 Rethinking strategies for monitoring plant pathogens virulence diversity and their corresponding sources of resistance to move towards a more effective disease control | Fred KATO (Kampala - UGANDA)

P6.1-051 A plant-based compound as a non-chemical nematicide of Citrus nematode tylenchulus semipenetrans Farhad SAEIDI NAEINI (Tehran - IRAN (ISLAMIC REPUBLIC OF))

P6.1-052 Encapsulated fungus-based compound of pochonia chlamydosporia against on root-knot nematode of olive Farhad SAEIDI NAEINI (Tehran - IRAN (ISLAMIC REPUBLIC OF))

P6.1-053 Changes in the activity of some antioxidant enzymes in wheat plants under the influence of virus infection and liposomal forms of glycans | Anhelina KYRYCHENKO (Kyiv - UKRAINE)

P6.1-054 Microcarbon plant-based nematicide promax® against meloidogyne javanica on greenhouse cucumber Farhad SAEIDI NAEINI (Tehran - IRAN (ISLAMIC REPUBLIC OF))

P6.1-055 Efficacy of fungicide rotation on potato late blight (Phytophthora infestans, (mont.) management Basistha ACHARYA (Kathmandu - NEPAL)

P6.1-056 Studies on the pathogenicity of metarhizium anisopliae var. acridum against desert locust, schistocerca gregaria (orthoptera: acrididae) nymphs and adults | Fazal SAID (Mardan - PAKISTAN)

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P6.1-058 The performance of the bactericidal and plant defence elicitor peptide bp178 in different plant host pathosystems Anna BONATERRA (Girona - SPAIN)

P6.1-059 Antibacterial activity of some substances against Citrus bacterial canker caused by Xanthomonas citri pv. citri in Burkina Faso | Kevin Ben Fabrice ZERBO (Bobo Dioulasso - BURKINA FASO)

P6.1-060 Silicon delays the spread of vascular streak dieback of cocoa | Frederick Osei ASAMOAH (Kuala Terengganu - MALAYSIA)

P6.1-061 Characterization of the capacity of yeast cell wall extracts to induce grapevine tolerance to drought and pathogens Silvio TUNDO (Legnaro - ITALY)

P6.1-062 Integrated pest management smart technologies to precisely detect and control plant diseases Dimitrios TSITSIGIANNIS (Athens - GREECE)

P6.1-063 An investigation of ways to reduce phytotoxicity caused by copper-based fungicides in Citrus Tamilarasan THANGAVEL (Bundaberg - AUSTRALIA)

P6.1-064 Evaluating histone acetyltransferases in Parastagonospora nodorum to develop novel fungicides Anjana SHARMA (Bentley - AUSTRALIA)

P6.1-065 Impact of fungicide tank-mixing on cercospora leaf spot of sugarbeet and genetic diversity of cercospora beticola Ashok Kumar CHANDA (St. Paul - UNITED STATES)

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P6.1-069 Strategies for copper reduction in grapevine, apple, roses and vegetables by using alternative experimental products Lucius TAMM (Frick - SWITZERLAND)

P6.1-070 Transcriptional reprogramming of lettuce roots in response to chitin soil amendment, effect on plant growth, rhizobiome composition and disease resistance | Joël F. POTHIER (Wädenswil - SWITZERLAND)

P6.1-071 Multicriteria analysis, a powerful tool to select control methods and design a containment strategy against the plane tree canker disease | Emmanuel GACHET (Angers - FRANCE)

P6.1-072 Evaluating bio-products, fungicides and sar chemicals in integrated management of alternaria branch rot of carnation Sunita CHANDEL (Solan - INDIA)

P6.1-073 Courgette genetic background modulates defense mechanisms induced by regalia® against the fungal pathogen podosphaera xanthii | Theoni MARGARITOPOULOU (Kifissia - GREECE)

P6.1-074 Management of cotton leaf curl virus through medicinal phytoextracts and its impact on agronomic parameters Muhammad ATIQ (Faisalabad - PAKISTAN)

P6.1-075 Strategies for the integrated management of Fusarium head blight of wheat while minimizing deoxynivalenol and fungicides residues in grains | Silvia PEREYRA (Colonia - URUGUAY)

P6.1-076 Management of Citrus gumosis in vitro and under field conditions through different chemicals Shahid IQBAL (Faisalabad - PAKISTAN)

P6.1-077 Steaming can disinfect soil and onion waste contaminated with stromatinia cepivora causal agent for white rot of onion and garlic | Belachew ASALF (Ås - NORWAY)

P6.1-078 Differential induction of defense mechanisms by commercial biopesticides in carrot varieties against the phytopathogenic fungus alternaria dauci | Dimitrios TSITSIGIANNIS (Athens - GREECE)

P6.1-079 Development of an infectious clone of blackberry chlorotic ringspot virus Andrea SIERRA MEJIA (Fayetteville - UNITED STATES)

P6.1-080 Safe chemical use for effective management of pseudocercospora leaf and fruit spot in Uganda John ADRIKO (Kampala - UGANDA)

P6.1-081 Chemo-enzymatic functionalization of phenolic compounds and evaluation of their potential for biocontrol in rapeseed | Sylvain CORDELIER (Reims - FRANCE)

P6.1-082 Monitoring Erwinia amylovora spread in apple orchards: development of a detection protocol from corbicular pollen Bianca VICELLI (S. Michele All'adige - ITALY)

P6.1-083 Characterization of the physical mode of action of an essential oil-based product against grapevine downy mildew caused by plasmopara viticola | Tito CAFFI (Piacenza - ITALY)

P6.1-084 N-acetylcysteine use for bacterial wilt of potatoes and bacterial canker of grapevine Simone PICCHI (Cordeiropolis - BRAZIL)

P6.1-085 Identification and characterization of fungi associated with lemon wood rot in arizona Jiahuai HU (Tucson - UNITED STATES)

P6.1-086 New evidence on advanced techniques for the early detection of plant diseases on solanum lycopersicum and capsicum annuum | Alessia Regina Vera FOLLADOR (Milano - ITALY)

P6.1-087 Biocontrol of rhizoctonia solani on strawberry in greenhouse by experimental antagonists Massimo PUGLIESE (Grugliasco - ITALY)

P6.1-088 Cranberry fruit rot: characterization and novel management | Leela UPPALA (East Wareham - UNITED STATES)

P6.1-089 Integrated and biological protection strategies against powdery and downy mildews on grape: recent results from trials carried out in Italy | Massimo PUGLIESE (Grugliasco - ITALY)



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P6.1-090 Cellulose nanocrystals as an innovative tool to control x. perforans | Daniele SCHIAVI (Viterbo - ITALY)

P6.1-091 Study on efficacy of ethanedinitrile against Plasmodiophora brassicae, the causal agent of clubroot disease of crucifers | Usha Rani PATAR (Prague - CZECH REPUBLIC)

P6.1-092 Application prospects for three bacterial endophytes against soil borne diseases and crop yield improvements in organic production of vegetables | Margaret MMBAGA (Nashville - UNITED STATES)

P6.1-093 Mitigation of grey mould disease in strawberry plants through exogenous application of phytohormones Chiara MURENA (Porto - PORTUGAL)

P6.1-094 Burkholderia sp. ssg - a powerful new management tool for crop health and production Chuan HONG (Virginia Beach - UNITED STATES)

High Throughput Sequencing approaches for the detection of pathogens

P6.2-001 Identification of viruses infecting horticultural crops in Korea by nanopore sequencing Hyo-Jeong LEE (Gwangju - REPUBLIC OF KOREA)

P6.2-002 Endophytic mycobiome characterization in cowpea (vigna unguiculata) using illumina sequencing Lilian Zemenjuh MOFORCHA (Buea - CAMEROON)

P6.2-003 Ancient powdery mildew DNA from reference collections: the effect of a century on powdery mildew DNA preservation | Reannon SMITH (Bundoora - AUSTRALIA)

P6.2-004 Tobacco ringspot virus: a new emerging virus infecting cotton (gossypium hirsutum I.) in the United States Akhtar ALI (Tulsa - UNITED STATES)

P6.2-005 Metagenomic analysis of viruses infecting grapevine (Vitis vinifera) in mexico Alfredo DIAZ-LARA (Santiago De Querétaro - MEXICO)

P6.2-006 Complete genome of an italian tomato brown rugose fruit virus isolate following a new target-specific nanopore sequencing approach | Serafina Serena AMOIA (Bari - ITALY)

P6.2-007 Sequencing draft genomes of cyst nematode species endemic to australia | Akshita JAIN (Melbourne - AUSTRALIA)

P6.2-009 The diversity of alfalfa pathobiome | Lev NEMCHINOV (Beltsville - UNITED STATES)

P6.2-010 High-Throughput Sequencing for pathogen indexing to safeguard the international movement of clonal crops Stephan WINTER (Braunschweig - GERMANY)

P6.2-011 Metaviromics reveals the presence of novel viral diversity associated with cultivated olives in South Africa David READ (Pretoria - SOUTH AFRICA)

P6.2-012 Novel viral diversity associated with helianthus annuus I. in South Africa | David READ (Pretoria - SOUTH AFRICA)

P6.2-013 Virome analysis of multiple sample types brings extended insights into the plant virus presence in the ecosystem Maja RAVNIKAR (Ljubljana - SLOVENIA)

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P6.2-015 Application of minion sequencing for the detection of viruses in seed yam systems Ruth FESTUS (Kent - UNITED KINGDOM)

P6.2-016 Double-stranded rna: a universal template for virome (virus and viroid) characterization using second and third-generation sequencing technologies | Mamadou Lamine FALL (Saint-Jean-Sur-Richelieu - CANADA)

P6.2-017 Evidanses: a quality management-friendly bioinformatics pipeline for virus detection in plants Benoit REMENANT (Angers - FRANCE)

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P6.2-021 Assessing the risk of viruses from niche tuber crops of andean origin | Morgan WODRING (York - UNITED KINGDOM)

P6.2-022 Rna-full the pipeline for full length genome sequencing of plant rna viruses | Victor GOLYAEV (Heverlee - BELGIUM)

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P6.2-025 Characterization of the soil, rhizosphere and root microbiome associated to kiwifruit vine decline syndrome in Italy Davide SPADARO (Grugliasco - ITALY)

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P6.2-027 Tracking bunt and snow mold pathogens in switzerland using soil monitoring | Karen SULLAM (Zürich - SWITZERLAND)

P6.2-028 Surveillance of crop-associated microbes using High-Throughput Sequencing of environmental and seed samples Émilie D. TREMBLAY (Ottawa - CANADA)

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P6.2-033 Multilocus genes and whole genome sequencing to identify agrobacterium arsenijevicii, causal agent of crown gall disease in raspberry plants | José Eduardo GODÍNEZ-ALEMAN (Texcoco - MEXICO)

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P6.3-002 The Incrna6155-mir169f-hap2c module regulates rice immunity against the root-knot nematode (rkn), meloidogyne graminicola (mg) | Xing XU (Gent - BELGIUM)

P6.3-003 Occurrence and distribution of root-lesion nematode pratylenchus coffeae in China | Honglian LI (Zhengzhou - CHINA)

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Unnati SONAWALA (Cambridge - UNITED KINGDOM)

P6.3-005 A small cysteine-rich meloidogyne javanica effector (mjcrsp) modulates plant immunity to promote nematode parasitism | Teresia MACHARIA (Pretoria - SOUTH AFRICA)

P6.3-006 Development of real-time diagnosis technology using pna probe of burrowing nematodes Hwa-Yeon YU (Daejeon - REPUBLIC OF KOREA)

P6.3-007 Genetic diversity analysis of four cyst nematodes isolated in Korea using mig-seq analysis Seon-Kyeong SONG (Namyangju - REPUBLIC OF KOREA)

P6.3-008 Changes in the rhizosphere microbiome of winter wheat lines with varying response to root lesion nematode infections | Erika CONSOLI (Bozeman - UNITED STATES)

P6.3-009 Ai-powered holistic and dynamic plant-pathology to deliver new sources of resistance Siyuan WEI (Cambridge - UNITED KINGDOM)

P6.3-010 Assessment of some soybean cultivars and lines to soybean cyst nematode, heterodera glycines Zahra MAJD TAHERI (Tehran - IRAN (ISLAMIC REPUBLIC OF))

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P6.3-017 Getting to the root of phytonematode disease: toward the understanding of parasitism regulation in meloidogyne spp | Caroline BOURNAUD (Villeurbanne - FRANCE)

P6.3-018 Novel cotton (gossypium hirsutum) promoters with biotechnological potential for phytonematode and insect pest control | Isabela TESSUTTI (Brasília - BRAZIL)

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Omnia ELSHORBAGY (Newcastle Upon Tyne - UNITED KINGDOM)

P6.4-004 A novel phyto-fumigant volatile formulation unveils the suppressive nature of damping off and fusarial wilt pathogens in tomato | Praveen THANGARAJ (Coimbatore - INDIA)

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P7.1-005 In search of candidate genes for resistant to venturia oleaginea in olive (olea europaea subsp. europaea)
Juan MORAL (Cordoba - SPAIN)

P7.1-006 Mta1-mediated rna m6a modification regulates autophagy and is required for infection of the rice blast fungus Chen XIAOLIN (Wuhan - CHINA)

P7.1-007 Identification of fungal effector targets involved in susceptibility of bread wheat to Fusarium head blight Shimlal AYILALATH (Clermont-Ferrand - FRANCE)

P7.1-008 Construction of sexual hybrid population of Puccinia striiformis f. sp. tritici and candidate genetic interval of avryr10 and avryr26 | Jie ZHAO (Yangling - CHINA)

P7.1-010 Investigation on high polyphenolic wheat genotypes resistance to Fusarium head blight (fhb) Linda FELICI (Viterbo - ITALY)

P7.1-011 Lecanosticta acicola modulates its proteomic profile depending on pinus innate resistance to brown-spot needle blight disease | Pedro Emanuel MONTEIRO (Aveiro - PORTUGAL)

P7.1-012 Osmbr, a putative receptor of Magnaporthe oryzae snodprot 1 (msp1), overexpression confers resistance to rice blast disease in rice Jeong | Woo JANG (Miryang - REPUBLIC OF KOREA)

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P7.1-016 Attenuated isolate gibellulopsis nigrescens vn-1 enhances resistance against Verticillium dahliae in potato Jianxiu HAO (Hohhot - CHINA)

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P7.1-021 Chromosome-level genome resource for cacao identifies the genetic basis for resistance to vascular streak dieback David GUEST (Camperdown - AUSTRALIA)

P7.1-022 Molecular insights into high-temperature seedling plant resistance against Puccinia striiformis f. sp. tritici in xiaoyan 6 wheat cultivar | Yuxiang LI (Yangling - CHINA)

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Christiaan R. SCHOL (Wageningen - NETHERLANDS)

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P7.1-032 Significance of wheat resistance gene(s) located on chromosome 1ds as a host barrier to non-adapted pathotypes of pyricularia oryzae | Reina TSUCHIYA (Kobe - JAPAN)

P7.1-033 Induction of ginsenosides using fungal endophytes isolated from mountain-simulated ginseng Hanhong BAE (Gyeongsan - REPUBLIC OF KOREA)

P7.1-034 Development of a novel assay for the study of hyphal constriction and its genetic basis in the rice blast fungus, Magnaporthe oryzae | Eunbyeol CHO (Gyeongsan - REPUBLIC OF KOREA)

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P7.1-036 Jmjd2 gene encoding a histone demethylase is required for fungal development and pathogenicity through transcriptional regulation of ribosomal DNA and nuclear genes in the rice blast fungus

Song Hee LEE (Gyeongsan - REPUBLIC OF KOREA)

P7.1-037 Investigating the cell biology of plant infection by the rice blast fungus Magnaporthe oryzae Berlaine QUIME (Norwich - UNITED KINGDOM)

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P7.1-044 A secreted leucine-rich repeat effector suppresses plant immunity | Eli THYNNE (Kiel - GERMANY)

P7.1-047 Profiling degs post inoculation by stripe rust (Puccinia striiformis f. sp. tritici) in wheat using an rna-seq approach Molemi RAUWANE (Port Elizabeth - SOUTH AFRICA)

P7.1-048 Distribution of wheat blast resistance genes in tetraploid wheat | Yoshino TAKAHASHI (Kobe - JAPAN)

P7.1-050 Metabolome reprograming and phenome characterization on basil after the infection by Fusarium and its interaction with Trichoderma atroviride antagonist under saline and non-saline conditions | Gorka ERICE (Tarragona - SPAIN)

P7.1-051 Pwl2 modulates pamp-triggered immunity through interaction with a host isoprenylated hma Vincent WERE (Norwich - UNITED KINGDOM)

P7.1-052 Giant transposons facilitate horizontal gene transfer of the necrotrophic effector toxa in fungal wheat pathogens Megan MCDONALD (Birmingham - UNITED KINGDOM)

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P7.1-055 Cell wall associated immunity against Fusarium oxysporum in arabidopsis bam3 mutant Eleni KALOGEROPOULOU (Kifissia - GREECE)

P7.1-056 New quantitative trait loci (qtl) for resistance to tar spot in maize | Raksha SINGH (Westlafayette - UNITED STATES)

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P7.1-058 Identification and characterization of novel effector proteins regulated by the map kinase pmk1 during cell-to-cell movement of the rice blast fungus Magnaporthe oryzae | Mark Jave BAUTISTA (Norwich - UNITED KINGDOM)

P7.1-061 Phosphorylation landscape of early appressorium morphogenesis reveals novel virulence determinants during rice blast disease | Neftaly CRUZ MIRELES (Norwich - UNITED KINGDOM)

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P7.2-002 Investigating mycovirus-mediated systemic resistance in oilseed rape | Jacob LOCKE-GOTEL (Hatfield - UNITED KINGDOM)

P7.2-004 Expanding the spectrum of hosts for Fusarium poae virus 1 to other Fusarium species | Xiushi SONG (Nanjing - CHINA)

P7.2-005 Differences in mycoviral content underlie phenotype and virulence changes in Botrytis cinerea isolates María A. AYLLÓN (Pozuelo De Alarcón (Madrid) - SPAIN)

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P7.4-003 Effects of fungicide and host resistance on control of Leptosphaeria maculans and I. biglobosa Yongju HUANG (Hatfield - UNITED KINGDOM)

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P7.4-006 Antibiotic resistance of klebsiella spp. isolated from agricultural products and agricultural environments in Korea Mi Kyung KWON (Yesan-Gun, Chungcheongnam-Do - REPUBLIC OF KOREA)

P7.4-007 Occurrence of antibiotics resistant Pseudomonas spp. isolated from vegetables and agricultural environments in south Korea | Jeong A HAN (Hwaseong-City, Gyeonggi-Do - REPUBLIC OF KOREA)

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P7.5-004 Characterization of Xanthomonas arboricola pv. juglandis isolates in Hungary | Fodor ATTILA (Budapest - HUNGARY)

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P7.5-006 The genomic changes that may have contributed to the adaptation of Xanthomonas vasicola pv. vasculorum to eucalyptus grandis | Nomakula ZIM (Pretoria - SOUTH AFRICA)

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Social and cultural dimensions of international forest health

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P7.6-002 Indigenous framework to recognise and give effect to cultural and data sovereignty to elevate indigenous peoples into science and biosecurity systems | Waitangi WOOD (Northland - NEW ZEALAND)

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P8.1-005 Emerging pecan leaf dieback disease caused by neofusicoccum caryigenum: research update and implications for management | Young-Ki JO (College Station - UNITED STATES)

P8.1-006 Incidence and severity of mango trees decline in côte d'ivoire and characterisation of lasiodiplodia species associated | Yéfoungnigui Souleymane YEO (Abidjan - COTE D IVOIRE)

P8.1-007 Diversity of lasiodiplodia species associated with mango (mangifera indica I.) decline in Burkina Faso and influence of climatic factors | Zoéyandé Oumarou DIANDA (Bobo-Dioulasso - BURKINA FASO)

P8.1-008 Statistical image segmentation of vines' wood colonized by neofusicoccum parvum in fluorescence microscopy Romain PIERRON (Colmar - FRANCE)

P8.1-009 Botryosphaeria dieback in walnut orchards in australia | Stella ANTONY (Wagga Wagga - AUSTRALIA)

P8.1-010 Fungal trunk pathogens in hazelnut orchards in Chile | Daina GRINBERGS (Chillan - CHILE)

P8.1-011 Differential carbohydrate-active enzymes and secondary metabolite productions by the grapevine trunk pathogen neofusicoccum parvum bt-67 grown on a host and non-host biomass | Florence FONTAINE (Reims - FRANCE)

P8.1-012 How to manage neofusicoccum parvum in protecting grapevine: combining the beneficial effects of Bacillus subtilis pta-271 and Trichoderma atroviride sc1 | Florence FONTAINE (Reims - FRANCE)

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Emerging Phytophthora's: Tackling Global Outbreaks that Impact Food security

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Synergism/antagonism between microbial pathogens and disease complexes: implications in epidemiology and management

P9.6-001 How multiple infections affect the dynamics of rice pathogen populations in Burkina Faso? Charlotte TOLLENAERE (Montpellier - FRANCE)

Representatives from leading industry suppliers will be at ICPP2023 to answer questions and share information on products and services. Thank you to all our 2023 exhibitors for being a part of this meeting!

Descriptions of exhibiting companies can be found on the mobile app.

The floor plan can also be found on the mobile app.











OAK

CEDAR

EBONY





CONVIRON

primediagnostics







































































EXHIBITION PLAN





GENERAL INFORMATION

LYON CONVENTION CENTRE

→ Adress: 50, quai Charles de Gaulle – 69006 Lyon

ACCESS

→ Access via Public Transportation

Stop at "Cité Internationale, Centre de Congrès" using one of the following buses:

- C1 or C2 or 70 from Lyon Part Dieu train station
- C4 from "Jean Macé"
- C5 from "Cordeliers"
- C26 from "Grange Blanche"

→ Book a cab

Taxi Radio: +33 4 72 10 86 86
Allo Taxi: +33 4 78 28 23 23
Taxi Lyonnais: +33 4 78 26 81 81

• Taxi G7 : 3607

2 taxi stations:

• Zone 1: near the bear statue, at the general entrance of the Conference Center





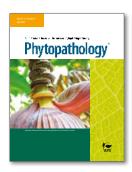


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