# DETAILED PROGRAM

## Monday November 18th 2019

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## Tuesday November 19th 2019

<table>
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<th>Time</th>
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| 08h30-10h50 | **Plenary Session**<br>
Chairman: Essaid AIT BARKA - Université Reims Champagne Ardenne |
|          | ◦ Official welcome and opening of the symposium                         |
|          | ◦ Bioprotection: the future<br>Karine GROSBEAU - IBMA Global             |
|          | ◦ The soil-borne supremacy<br>Corné PIETERSE - Utrecht University       |
| 10h50-11h15 | **Coffee Break & Poster Session**                                       |
| 11h20-12h30 | **Parallel Sessions**<br>
**Session 1: Elicitors & Plant Immunity**<br>Chairman: Corné PIETERSE - Utrecht University<br>◊ New insight into free phyto-oxylipins roles, a potential for biocontrol agents<br>Estelle DEBOEVER - Liege University<br>◊ How do mycorrhizal roots orchestrate shoot defence upon Botrytis cinerea infection?<br>Neus SANMARTIN MARTINEZ - Universitat Jaume I<br>◊ Towards a more sustainable agriculture: characterization of novel systemic resistance-inducing compounds for crop protection<br>Lisa PONNET & Bruno CAMMUE - KU Leuven<br>◊ Rhamnolipids synthesis precursors trigger induced systemic resistance against Botrytis cinerea in Arabidopsis thaliana<br>Sylvain CORDELIÉR - Unité Recherche Résistance Induite et BioProtection des Plantes<br>**Session 9: Microbiome**<br>Chairwoman: Joana FALCAO SALES - University of Gronningen<br>◊ Deliberate introduction of invisible invaders: A critical appraisal of the impact of microbial inoculants on soil microbial communities<br>Joana FALCAO SALLES - University of Gronningen<br>◊ The future of Agriculture is already here: the biofertilization<br>Karine BRUCK - Agrogenia<br>◊ Green power Ltd sustainable agriculture technologies<br>Esther de VALLIERE - Green Power Ltd<br>◊ Interactive effects of rootstock and cultivar genotype on rhizosphere bacterial communities of grapevines<br>Stefanie VINK - University of Gronningen
**12h30 - 14h00  Lunch Break**

**14h00 - 15h00  Plenary Session**

- Role of cyclic lipopeptides produced by pseudomonas spp in plant disease control  
  *Monica HÖFTE - University of Ghent*
- SMARTBIOCONTROL: a European portfolio of projects to develop novel biopesticides  
  *Philippe JACQUES - University of Liege*

**15h00 - 16h00  Poster session & Coffee Break**

**16h00 - 17h40  Parallel Sessions**

**Session 2: Microbial sensing**  
*Chairwoman: Monica HÖFTE - University of Ghent*

- The influence of preconditioned biochar on soilborne diseases suppression and microbial community structure  
  *Omer FRENKEL - Agricultural Research Organization (ARO)*
- Cooperation between *Bacillus velezensis* and its host plant leads to a more efficient root colonization process via anticipated surfactin production  
  *Grégory HOFF - University of Liege*
- Decoding biological mechanisms involved in biocontrol of cereals mycotoxinogenic fungi  
  *Lucile PELLAN - UMR Qualisud*
- Natural products compounds for bioherbicide development and metabolomics tools for environmental fate evaluation of complex mixtures  
  *Cédric BERTRAND - SAS AKINAO*
- Plant immunization by the *Bacillus* lipopeptide surfactin: insights into the mechanistics of perception at the plasma membrane  
  *Jelena PRSIC - University of Liege*

**Session 8: Consortia for biocontrol**  
*Chairman: Philippe JACQUES - University of Liege*

- Genome mining for screening and characterization of new lipopeptides with biocontrol applications  
  *Valérie LECLERE - Institut Charles Violette*
- Project BIOSENS, an update on the development of early detection and realtime monitoring of pathogens and biocontrol agents in agriculture  
  *Camille DEKUIJPER - CARAH GSBL*
- New strategies for the production of low toxicity biomolecules, the lipopeptides from Bacillus subtilis and studies of their potentiality as biopesticides for plant protection  
  *François KRIER - University of Lille*
- Interspecies interactions between *Bacillus* and *Streptomyces*, a new strategy for natural product discovery  
  *Anthony ARGUELLES ARIAS - University of Liege*
- Role of structurally diverse pseudomonas cyclic lipopeptides in direct antagonism and induced resistance against plant pathogens  
  *Feyisara Eyiwumi ONI - Ghent University*
Wednesday November 20th 2019

08h30 - 10h30  Plenary Session

◊ The role of beta-aminobutyric acid in defense priming: anything new?
  Brigitte MAUCH-Mani - University of Neuchatel
  
◊ Plant defense priming in lab and field
  Uwe CONRATH - RWTH Aachen University
  
◊ Engineering the fruit microbiome for biological control of postharvest diseases
  Samir DROBY - Agricultural Research Organization (ARO)

10h30 - 11h00  Poster session & Coffee Break

11h00 - 13h00  Parallel Sessions

Session 1: Elicitors & Plant Immunity
Chairwoman: Brigitte MAUCH-MANI - University of Neuchatel

◊ Application of alginites and oligo-alginates from Moroccan brown seaweeds as elicitors of natural defense mechanisms in date palm
  Soukaina BOUISSIL - University Cadi Ayyad & University Clermont Auvergne

◊ Early recognition of the danger molecules Oligo-galacturono is essential for Mycorrhiza-induced resistance
  Jordi GAMIR - Universitat Jaume I

◊ Essential oils in plant protection: recent developments, opportunities and challenges
  Marie-Laure FAUCONNIER - University of Liege

◊ Screening of naturally occuring resistance inducers for biocontrol of two wheat leaf diseases: Septoria Triticci Blotch and powdery mildew
  Maryline MAGNIN-ROBERT - Université Littoral Côte d’Opale

◊ Testing ethylene for the immunization of Norway spruce seedlings in nursery
  François MARTZ - Natural Resources Institute Finland (Luke)

◊ Phenolic-rich extract from red mapple leaves induce plant defense reactions on tobacco through gallate active ingredients
  Elodie PEGHAIRE - Université Clermont Auvergne

Session 3: Plant immunity & Induced resistance
Chairman: Uwe CONRATH - RWTH Aachen University

◊ Impact of global warming on gray mold grapevine / Botrytis cinerea - Antagonist interaction
  Zakaria AMAROUCHI - Université de Reims Champagne Ardennes

◊ STRINGS: a STRess INduced Gene Set to screen for induced resistance in rice cell suspension cultures
  Jonas DE KESEL - Ghent University

◊ A mixture of three plant-growth promoting rhizobacteria promotes wheat growth and induces resistance against Mycosphaerella graminicola and drought stress
  Erika SAMAIN - Institut Polytechnique UniLasalle

◊ Can CRISPR/Cas 9 be used to develop a biological control solution for Mal secco disease of citrus?
  David EZRA - Agricultural Research Organization (ARO)

◊ The age dependant priming
  Victor FLORS - Universitat Jaume I

◊ New horizons in ginger cultivation: tapping antagonist(s) against Pythium myriotylum
  Keerthi DIVAKARAN - National Centre for Biological Sciences (NCBS-TIFR)

13h00 - 14h00  Lunch Break

14h00 - 18h15  Tourism Tour

◊ Bus pick-up and drop-off at the Hotel Palm Plaza

◊ Guided tour in the Marrakesh souks

◊ Freetime (1h) at the city center (Jemaa El-Fna square)

19h30 - 22h00  Symposium gala dinner - Chez Ali
Thursday November 21st 2019

8h50 - 09h50  Parallel Sessions

Session 1: Elicitors & Plant Immunity
Chairman: Christophe CLEMENT - University of Reims Champagne Ardenne

- COS-OGA elicitation induces different transcriptional responses between Monocots and Dicots
  Sophie MOREAU - University of Namur

- Tomato peptide systemin induces resistance in the phylogenetically distant species Arabidopsis thaliana
  Julia PASTOR-FERNANDEZ - Universitat Jaume I

- Effect of hydroxycinnamic acids on the growth and hydrolytic enzyme production in Fusarium oxysporum f.sp. albedinis
  Majida EL HASSNI - Faculté Polydisciplinaire Béni Mellal

Session 8: Consortia for Biocontrol
Chairman: Noureddine CHTAIBA - IAV Hassan II

- Bacillus velezensis- Pseudomonas sp. Interaction: key role of cyclic lipopeptides
  Thibault MEYER - University of Liege

- Antagonist effects of Bacillus amyloliquefaciens 13 strain against Zymoseptoria tritici biotrophic for protection of wheat and potential action mechanism
  Ilham BARAKAT - Agronomic and Veterinary Institute Hassan II

- Impact of interspecies interactions on the production of biocontrol related metabolites by Bacillus velezensis
  Sofija ANDRIC - University of Liege

09h50 - 10h20  Poster Session & Coffee Break

10h20 - 12h00  Parallel Sessions

Session 5: Bottlenecks & Potential solutions
Chairman: Juan Carlos CABRERA - Fyteko

- Developing biostimulants to help crops tolerate better abiotic stress
  Juan Carlos CABRERA - Fyteko

- Inoculation effect of phosphate solubilizing bacteria on sorghum growth sown in phosphates solid sludge compost
  Aliyat FZ - Moulay Ismail University

- BVT CR-7 Vectored by bees: a highly effective tool against botrytis on strawberries and tomatoes
  Christoph LEHNEN - BVT Canada

- Challenges and constraints for the commercial exploitation of endophyte biostimulants
  Reza RANJBAR - Centre for Process Innovation (CPI)

- Mycorrhiza as model biological biostimulant for agriculture
  Wieland REICHLT - Evologic Technologies

Session 6: Existing solutions
Chairman: Mohamed EL GUILI - INRA Morocco

- NOVACRID, a fungal biopesticide to control locust and grasshoppers
  Magali DELOGE - Éléphant Vert

- Use of bacteriocins to control microbial strains applied in plant bioprotection
  Philippe GABANT - Syngulon

- Reinventing microbials formulation: microcapsules for growth and delivery
  Marie TRANIER - Kapsera

- Management of nematodes meloidogyne sp. By a system-based approach on lettuce and tomato culture under field conditions
  Thierry PICAUD - Medinbio

- Development of a pant growth promoting rhizobacteria based product to promote plant fitness: insight into the colonization of the rhizosphere
  Benoit DE SARRAU - Éléphant Vert
12h00 - 13h50  Lunch Break

13h50 - 15h20  Plenary Session

- Recent experiences and new developments in the registration of microbial biopesticides
  Willem J. RAVENSBERG - Koppert Biological Systems
- Bioprotection: overview of the current regulations in EU and in some African countries
  Karine GROSBEAU - Elephant Vert
- Plant biostimulants: complementing plant protection and nutrition
  Kristen SUKALAC - Prospero & Partners

15h20 - 15h40  Coffee Break & Poster session

15h40 - 17h40  Parallel Sessions

**Session 4: Biocontrol**
*Chairman: Willem RAVENSBERG - Koppert Biological Systems*

- Trichoderma atroviride strain SC1 controls botrytis in tomatoes
  Vincent GALL - Belchim
- Antagonistic ability of soil actinobacteria to control fungal pathogens and mycotoxins risk on wheat
  Ixchel CAMPOS AVELAR - UMR QualiSud, University of Montpellier 2
- Development of a BCA against wheat head blight
  Najat NASSR - Rittmo
- Promising native Trichoderma atroviride (BC0584) as a biocontrol agent in seed coating for reducing Fusarium damping-off on maize crop in Belgium
  Eugenie CONINCK - Comité Regional Phyto
- An integrated technology pipeline for the development of superior agricultural biologicals
  Steven VANDENABEEL - Aphea Bio
- EnzyTurf
  Julien COUVREUR - URD ABI / Soufflet

**Session 7: Biocontrol in tropical & extreme conditions**
*Chairwoman: Karine GROSBEAU - Elephant Vert*

- Arbuscular mycorhizal colonization rate and rhizospheric soil aggregation of constraining pearl millet lines under heat stress conditions
  Adrien BYAMUNGU NDEKO - Université Evangélique en Afrique
- Sustainable production of natural biocidal extracts from two piperaceae in Reunion Island
  Jean-Philippe DEGUINE - CIRAD
- Assessing classical biological control against Aspidiotus destructor (Hemiptera: Coccoidea, Diaspididae) on coconut palm in East Timor
  Laurence OLLIVIER - University of Montpellier
- Plants and natural products used as a biocontrol strategy to manage tomato bacterial wilt in the tropics
  Péninna DEBERDT - CIRAD
### Friday November 22nd 2019

**9h00 - 10h30  Plenary Session**

- **IAR’s monitoring platform on biocontrol & biostimulant market – Opportunity and trend analysis**  
  *Louis TIERS - IAR, The French Bioeconomy Cluster*
- **Bio-inputs projects at ARD**  
  *Alix ROUSSEAU - ARD*
- **Nexy® and Romeo®, two innovative yeast biocontrol solutions to manage efficiently crop protection against major fungal diseases.**  
  *Patricia LETOUSEY - Agrauxine*

**10h30 - 11h00  Coffee Break & Poster session**

**11h00 - 12h10  Parallel Sessions**

**Session 1: Elicitors & plant Immunity**  
Chairwoman: Brigitte MAUCH-MANI - University of Neuchatel

- **Microalgae polysaccharides as bioelicitor of tomato plant defense: biochemical and metabolomic aspects**  
  *Farid RACHIDI - MasClIR*
- **Microalgae polysaccharides as bioelicitor of biochemical and metabolomic pathways related to plant defense in solanum lycopersicum**  
  *Iman BENNIS - Green biotechnology*
- **Biostimulant and bioprotection effect of polysaccharides extracted from Moroccan marine seaweeds applied on tomato plants (Solanum lycopersicum)**  
  *Issam Meftah KADMIRI - MasClIR*

**Session 4: Biocontrol**  
Chairwomen: Sabrina SARROCCO - University of Pisa

- **“When you play a game of thrones for wheat you win or you die”: Trichoderma gambii vs fusarium graminearum for the control of FHB**  
  *Sabrina SARROCCO - University of Pisa*
- **In vivo screening of biocontrol potential of trichorna spp in fusarium solani-green beans pathosystems and insights on characterizing trichoderma at species level using tef1 gene**  
  *Wafaa MOKHTARI - Institute of Agronomy and Veterinary Sciences*
- **Inhibition of verticillium dahliae and rhizoctonia solani growth by solid phosphate sludge amendments**  
  *Zakaria BAIZ - National Institute of Agricultural Research*

**12h10 - 13h00  Closing Remarks**

**REGISTER NOW**