



**From microbial interactions  
to new-concept  
biopesticides and  
biofertilizers**

**Summer PhD Course**

**Acquired and Induced Disease  
Resistance in Plants**

**September 18-21, 2018**

**Reims**

**France**

**Induced Resistance and Plant Bioprotection Unit**

**Marie Skłodowska-Curie Actions (MSCA)**

**Innovative Training Networks (ITN)**

**H2020-MSCA-ITN-2016**

**EID-722642-INTERFUTURE**

Tuesday September 18, 2018 (Amphitheater)			
9:00	13:00	Arrival	
13:00	13:45	Lunch	
13:45	14:00	Welcome and course introduction	Essaid Ait Barka (URCA)
14:00	15:00	Systemic acquired resistance and induced systemic resistance in crop protection: from nature to a practical approach.	Jenny Neukermans (PCG, Belgium)
15:00	15:30	Coffee break	
15:30	16:30	The root of induced systemic resistance	Ioannis A. Stringlis (Utrecht University)
16:30	17:00	Open Discussion	
17:00	18:00	Pommery's Cellar visit	
18:00	20:00	Dinner	
Wednesday September 19, 2018 (Amphitheater)			
9:00	9:40	Paraburkholderia phytofirmans PsJN and grapevine performances	Essaid Ait Barka (RIBP-URCA)
09:40	10:20	Induced resistance form the mechanism of action to the application in grapevine	Michele Perazzolli (FEM)
10:20	10:45	Coffee break	
10:45	12:15	Supervisory board (SB) Visio conference room	
12:15	13:10	Lunch	

13:10	13:50	ISR in grapevine: from plant-beneficial microbe interactions to systemic immunity	Aziz Aziz (RIBP - URCA)
13:50	14:30	Characterization of plant innate immunity triggered by <i>Pseudomonas aeruginosa</i> rhamnolipids	Stephan Dorey (RIBP - URCA)
14:30	15:10	Sphingolipids: new players in plant defense	Sandrine Cordelier (RIBP-URCA)
15:10	15:40	<b>Coffee break</b>	
15:40	18:00	<b>Bi(tri)lateral meetings for ESRs</b>	
18:00	19:00	<b>Laboratory and greenhouse visit</b>	
19:30	21:30	<b>Dinner</b>	

<b>Thursday September 20, 2018 (Amphitheater)</b>			
9:00	9:30	<b>General assembly</b> -important dates, deadlines and administrative aspects	Ilaria Pertot, Riccarda Moser
9:30	12:00	<b>Meeting Session 1: Plant growth promoting microorganisms for a more sustainable agriculture</b>	
9:30	10:00	ESR1: Novel biofertilisers based on endophytic bacteria. Innovative approaches to bridge plant-microbe interaction research and bio-product development	Nikoletta Galambos
10:00	10:30	ESR2: Untapping the keg of microbial bioproducts using innovative approaches to cultivation. New bio-based products from plants	Maria Vasseur
10:30	11:00	<b>Coffee break</b>	
11:00	11:30	ESR3: Interactions between crop genotypes, antagonistic root colonizing endophytes and arbuscular mycorrhizal fungi	Mirjam Seeliger
11:30	12:00	ESR11: Conventional delivery strategies for bioproducts based on microbial bioproducts	Aammar Tufail

12:00	13:00	Lunch	
13:00	15:30	Meeting Session 2: Interactions and mode of actions of biofertilizers and biofungicides	
13:00	13:30	ESR4: Characterization of stimulators of the phyllosphere microbiota as innovative biocontrol products	Abdessalem Chahed
13:30	14:00	ESR5: Characterization of the mechanism of action of protein- and sugar-based biocontrol products on target and non-target microorganisms	Nikola Mijailovic
14:00	14:30	ESR7: The interactions of the endophytic nitrogen fixing bacterium <i>Gluconacetobacter diazotrophicus</i> with fungal endophytes and rhizosphere micro-organisms associated with ryegrass, <i>Lolium perenne</i>	Martina Franchini
14:30	15:00	ESR8: Plant and bacterial factors determining host colonization by, and intracellular uptake of <i>Gluconacetobacter diazotrophicus</i>	Michele Pallucchini
15:00	15:30	Coffee break	
15:30	16:00	Meeting Session 3: Volatile organic compounds as novel eco-friendly pesticides	
15:30	16:00	ESR6: Employment of volatile organic compounds produced by <i>Lysobacter</i> members for the biological control of soilborne plant pathogenic fungi and oomycetes	Anthi Vlassi
16:00	16:30	ESR9: Selection of microorganisms to develop new tools for the management of <i>Drosophila suzukii</i>	Amani Alawamleh
16:30	17:00	ESR10: Development of a commercial liquid food trap with addition of bioactive microorganisms to improve attractiveness and specificity for <i>Drosophila suzukii</i>	Gordana Durovic
17:00	19:30	Bi(tri)lateral meetings for ESRs	
20:00	22:00	Dinner	

**Friday September 21, 2018**

<b>9:00</b>	<b>12:00</b>	<b>Field Trip</b>
<b>12:00</b>	<b>13:00</b>	<b>Summer school conclusion and departure</b>