

Welcome to the Fourth Conference of the International Plant Proteomics Organization

Hosted from Winnipeg, Canada

March 9th – 11th 2021

PROGRAMME

On behalf of the Scientific and Organizing Committees, I would like to welcome you to INPPO2020 – being held virtually, and in 2021. I hope you have a productive and meaningful experience!

Christof Rampitsch, Conference Chair.

Scientific Committee

Jenny Renaut, President (Luxemburg)
Stefanie Wienkoop, VP (Austria)
Dominique Job (France)
Sabine Lüthje (Germany)
Natalia Bykova (Canada)
Silvia Mazzuca (Italy)
Georgia Tanou (Greece)

Local Organizing Committee

Jennifer Geddes-McAlister (Guelph, Canada)
Joanne Ernest (Saskatoon, Canada)
Ray Bacala (Winnipeg, Canada)
Janette Champ (Toronto, Canada)

Programme Overview

Tuesday March 9

Symposium 1: Plant-Improvement

GMT		My Time Zone		
Start	End	Start	End	
14:00	14:10			Welcome Address: Christof Rampitsch , Conference Chair; Jenny Renaut , INPPO President
14:10	14:40			Keynote Lecture: Dr. Jesús V. Jorrín-Novo , University of Cordoba, Spain. "Past, present and future of plant proteomics: the view of the orphan and recalcitrant forest tree <i>Quercus ilex</i> "
14:40	16:00			Session 1: Chair, Dr. Jesús Jorrín-Novo
14:40	15:00			Talk 1.1: Luciana De Oliveira , INRAE, Gif-sur-Yvette, France. "SpecOMS, an open modification search approach challenging high-throughput single amino acid variations identification"
15:00	15:20			Talk 1.2: Ray Bacala , Canadian Grain Commission, Winnipeg MB, Canada. "New PTM observations raise questions on protein trafficking in developing wheat embryos"
15:20	15:40			Talk 1.3: Leonard Barnabas Ebinezer , University of Padova, Italy. "Effects of PFAS on growth, physiology and root proteome of hydroponically grown maize plants"
15:40	16:00			Invited talk 1: Dr. Jun Song , Agriculture & Agrifood Canada, Kentville NS, Canada. "Application of quantitative proteomics to maintain and improve eating quality of fruit"
16:00	17:00			Break
17:00	20:00			Poster Sessions 1 and 2

Tuesday March 9

POSTER SESSION 1: PLANT DEVELOPMENT & CROP IMPROVEMENT (Moderators Drs. Sabine Lüthje, Laurence Bindschedler)

GMT		My Time Zone		Poster	Presenter	Ttitle
Start	End	Start	End			
16:50						Good Afternoon/Evening!
17:00	17:10			1.1	Sufia Farhat	Looking forward to <i>Cajanus cajan</i> Proteome Atlas
17:10	17:20			1.2	Hua Bridget Bai	Unbiased RNA and protein co-expression networks identify key genes predictive of hybrid vigor in maize
17:20	17:30			1.3	Vanildo Silveira	Label-Free Quantitative Phosphoproteomics Reveals Signaling Dynamics Involved in Embryogenic Competence Acquisition in Sugarcane
17:30	17:40			1.4	Maxence James	Multi-omic analysis of 2 maize near- isogenic lines for cold tolerance QTLs
17:40	17:50			1.5	Ilaria Battisti	Label-free quantitative proteomic analysis of commercial soymilks
17:50	18:00			1.6	Emmanuelle Bancel	Proteomic and peptidomic tools to analyze in vitro gastrointestinal digestibility of bread wheat
18:00	18:10			1.7	Miroslav Perniš	The secretome of <i>Pinus nigra</i> Arn. embryogenic cell suspension culture
18:10	18:20			1.8	Ana Paulina Barba de la Rosa	Morphological, biochemical, and molecular characterization of wild and cultivated amaranth seeds
18:20	18:30			1.9	Ivan Takeshi Cerritos Castro	Amaranth calcium oxalate crystals as possible carbon pools
18:30	18:40			1.10	Hasan Kolkas	The <i>Marchantia polymorpha</i> cell wall proteome: to what extent is it conserved compared to that of higher plants?
18:40	18:50			1.11	Elisabeth Jamet	A core plant cell wall proteome could contribute to the maintenance of the basic cell wall functions
18:50	19:00			1.12	Salvador González-Gordo	Mitochondrial protein expression during sweet pepper (<i>Capsicum annuum</i> L.) fruit ripening: iTRAQ-based proteomic analysis
19:00	19:10			1.13	Salvador González-Gordo	Peroxisomes from sweet pepper (<i>Capsicum annuum</i> L.) fruit: iTRAQ proteomic analysis during ripening
19:10	19:20			Open for Questions		

POSTER SESSION 2: SIGNALLING (Moderators: Drs. Laurence Bindschedler, Sabine Lüthje)

19:20	19:30			2.1	Wendy Lyzenga	Identification and characterization of ubiquitination components in cucumber phloem which function as long-distance signaling agents in phosphorus homeostasis
19:30	19:40			2.2	Ascensión Martínez-Márquez	Proteomics-driven discovery of an ABC transporter b family member (VvABC-B) in elicited grapevine cells: functional analysis as a trans-resveratrol transporter
19:40	19:50			2.3	Véronique Santoni	Root ubiquitinome under osmotic stress
19:50	20:00			Open for Questions		

Wednesday March 10

Symposium 2: Plant-Signals

GMT		My Time Zone		
Start	End	Start	End	
13:55				Good Morning/Afternoon!
14:00	14:30			Plenary Lecture 1: "Closing the protein gap in plant chronobiology" Dr. Glen Uhrig , University of Alberta, Canada
14:30	16:00			Session 2: Chair, Dr. Jennifer Geddes-McAlister
14:30	14:50			Talk 2.1: Alessio Scarafoni , University of Milan, Italy. "Extracellular vesicles of the apoplast of germinating lupin seeds: proteomic analysis and mechanism of release from the cells"
14:50	15:10			Talk 2.2: Andrej Frolov , Leibnitz Inst. of Plant Biochem. Germany. "Glycation of plant proteins in the context of ontogenetic changes and ecological interactions"
15:10	15:30			Talk 2.3: Ramesh Katam , Florida A&M University. "Proteome and phospho proteome studies in heat tolerant and susceptible rice cultivars"
15:30	15:50			Invited talk 2: Dr. Stefanie Wienkoop , University of Vienna, Austria. "A plant core stress responsive proteome (CSR) network is involved in moderate drought stress regulation"
15:50	16:00			COST Project update: Mélisande Blein-Nicholas
16:00	17:00			Break
17:00	20:00			Poster Sessions 3 and 4
20:00	21:00			INPPO Business Meeting (ALL WELCOME !)

Wednesday March 10

SESSION 3: BITOIC INTERACTIONS AND STRESS (Moderator: Drs. Jenny Renaut, Stefanie Wienkoop)

16:50						Good Afternoon/Evening!
17:00	17:10			3.1	Nadezhda Frolova	Changes in the proteome of radish (<i>Raphanus sativus</i> L.) in response to <i>Agrobacterium</i> infection
17:10	17:20			3.2	Natalia V. Bykova	Profiling the total and nuclear proteomes of host-pathogen interactions of the wheat Thatcher near-isogenic line for Lr2a resistance gene with virulent and avirulent races of <i>Puccinia triticina</i>
17:20	17:30			3.3	Leonor Guerra-Guimarães	Proteomic Analysis of three Coffee Leaf Rust races with different pathogenic behavior
17:30	17:40			3.4	Agnieszka Szuba	Molecular adjustments in <i>Populus × canescens</i> colonized with the ectomycorrhizal fungus <i>Paxillus involutus</i> , which limited plant host growth - a proteomic and metabolomic view
17:40	17:50			3.5	Aslihan Günel	Proteome profile of Endoplasmic Reticulum of <i>Pyrenophora teres</i> f.sp. <i>maculata</i>
17:50	18:00			3.6	Rita B. Santos	Grapevine – downy mildew proteomics of the first hours of an incompatible interaction
18:00	18:10			3.7	Ahyoung Kim	Characterization of age-related proteome changes in common beans (<i>Phaseolus vulgaris</i>)
18:10	18:20			3.8	María-Dolores Rey	A shotgun proteomics approach for the study of the effect and responses to combined drought and <i>Phytophthora cinnamomi</i> in <i>Quercus ilex</i> seedlings from two contrasting Andalusian populations
18:20	18:30			Open for Questions		

SESSION 4: ABITOIC STRESS (Moderators: Dr. Stefanie Wienkoop, Jenny Renaut)

18:30	18:40			4.1	Klára Kosová	Potential utilization of dehydrin proteins as indicators of cereal (wheat, barley) tolerance to environmental stresses
18:40	18:50			4.2	Daria Gorbach	Protein glycation and drought response of pea (<i>Pisum sativum</i> L.) root nodule proteome: a proteomics approach
18:50	19:00			4.3	Maryke Labuschagne	Proteomic analysis of durum glutenin protein under heat and drought stress
19:00	19:10			4.4	Maksym Danchenko	Plausible implications of chronic ionizing radiation stress for plant memory and immunity
19:10	19:20			4.5	Marija Vidovic	Twenty different late embryogenesis abundant proteins (LEAPs) accumulate in desiccated <i>Ramonda serbica</i> leaves
19:20	19:30			4.6	Kjell Sergeant	The chloroplast of <i>Craterostigma plantagineum</i> during a complete dehydration/rehydration cycle.
19:30	19:40			4.7	María-Ángeles Castillejo	Targeted post-acquisition proteomics as an approach for the search of proteins and peptides to be used as markers of tolerance to drought in <i>Quercus ilex</i>
19:40	19:50			4.8	Madhiya Manzoor	Root proteomic analysis of Common bean (<i>Phaseolus vulgaris</i>) under Fe and P stress.
19:50	20:00			Open for Questions		INPPO Business Meeting – All Welcome!
20:00	21:00			INPPO Meeting		

Thursday March 11

Symposium 3: Plant-Interactions

GMT		My Time Zone		
Start	End	Start	End	
13:55				Good Morning/Afternoon!
14:00	14:30			Plenary Lecture 2: "Identification of Effectors from the Phytopathogen <i>Fusarium graminearum</i> using BioID" Dr. Gopal Subramaniam , Agriculture and Agrifood Canada, Ottawa, Canada
14:30	15:40			Session 3 : Chair, Dr. Michel Zivy
14:30	14:50			Talk 3.1: Boyan Liu , Univeristy of Guelph, Canada. "Proteomics to decode the relationship between plant and fungal pathogen on a systems level"
14:50	15:10			Talk 3.2: Joana Figueiredo , University of Lisbon, Portugal. "Modulation of apoplast proteome by downy mildew in susceptible and tolerant grapevine cultivars"
15:10	15:30			Talk 3.3: Laurence Bindschedler , Royal Holloway, London, UK. "Investigating the barley powdery mildew extra-haustorial proteome during infection by the biotrophic fungus <i>Blumeria graminis</i> to identify and validate host proteins required for susceptibility"
15:40	16:00			Invited talk 3: Dr. Georgia Tanou , University of Thessaloniki, Greece. "Proteogenomics atlas in a perennial fruit trees: a sweet cherry case study"
16:00	16:30			INPPO 2022/3 Invitation. INPPO 2024/5?
16:30	17:00			Break
17:00	20:00			Poster Sessions 5, 6 and 7

Thursday March 11

SESSION 5: ENVIRONMENTAL PROTEOMICS (Moderator Drs. Antonio Masi, Christof Rampitsch)

16:50						Good Afternoon/Evening!
17:00	17:10			5.1	Nasser Mahna	Response of soybean to graphene oxide nanostructures stress at proteomic level
17:10	17:20			5.2	Bruno Komazec	The effects of silver nanoparticles and ions on <i>Chlorella vulgaris</i>
17:20	17:30			5.3	Petra Peharec Štefanić	Effects of silver nanoparticles and silver nitrate on root proteins of tobacco (<i>Nicotiana tabacum</i>) plants
17:30	17:40			5.4	Karla Košpić	Changes in activities and isoform patterns of antioxidant enzymes in tobacco plants upon exposure to silver nanoparticles and silver nitrate
17:40	17:50			5.5	Athassios Molassiotis	Proteo-metabolomic study of olive (cv. 'Chondrolia Chalkidikis') drupe development and maturation

SESSION 6: NITROGEN USE EFFICIENCY (Moderator: Drs. Natlaia Bykova, Andrej Frolov)

17:50	18:00			6.1	Dristy Zaman	Transamination of L-asparagine in <i>Glycine max</i> leaf tissue
18:00	18:10			6.2	Bhakti Prinsi	Proteomic changes in the roots of M4 grapevine rootstock in response to nitrate availability
18:10	18:20			6.3	Chiara Muratore	Comparative proteomics of organelles in maize (<i>Zea mays</i> L.) roots in response to different availabilities of nitrate and ammonium
18:20	18:30			6.4	Yordan Muhovski	Comparative proteomic analyses of potato (<i>Solanum tuberosum</i> L.) cultivars grown in hydroponics and subjected to different doses of nitrate

SESSION 7: TECHNOLOGIES (Moderator: Drs. Andrej Frolov, Natalia Bykova)

18:30	18:40			7.1	Tatiana Bilova	Ageing stimulated protein glycation process in <i>Arabidopsis</i> plants
18:40	18:50			7.2	Willy Bienvenut	Sub optimal [¹⁵ N] metabolic labelling in plant to determine protein turnovers: A new look at the isotopic distribution
18:50	19:00			7.3	Ascensión Martínez-Márquez	Application of MRM for grapevine organelle abundance profiling analysis in cell-suspension culture
19:00	19:10			7.4	Amalia Piro	Fine-tuned procedure to extract high purified proteins from the seagrass <i>Halophila stipulacea</i> and proteins identification by means of several seagrass genomic resources
19:10	19:20			7.5	Tatiana Leonova	Validation of a filter aided sample preparation (FASP)-based label-free quantification approach for proteomics analysis of plant tissues
19:20	19:30			7.6	Zachary Provost	Known and novel proteins identified in mature rice (<i>Oryza sativa</i> L.) starch grain revealed by three diverse granule preparation methods
19:30	19:40			7.7	Nick Prudhomme	Profiling the Infectome of <i>Agrobacterium tumefaciens</i> and <i>Nicotiana benthamiana</i> with Quantitative Proteomics for Molecular Farming
19:40	19:50			Poster Prizes Announced		
19:50	20:00			Closing of INPPO2020		

ABSTRACTS

ORAL SESSIONS

POSTER SESSION 6

NITROGEN USE EFFICIENCY

POSTER#6.2

Proteomic changes in the roots of M4 grapevine rootstock in response to nitrate availability

Bhakti Prinsj, Muratore C, Espen L

University of Milan - Department of Agricultural and Environmental Sciences, Milano, Italy

Nitrogen (N) is an essential macronutrient for plants, but very little is known about the biochemical roles played by roots in N acquisition in grapevine (*Vitis vinifera* L.), an important grafted perennial fruit crop. In recent years, the grapevine rootstock M4 [(*V. vinifera* × *V. berlandieri*) × *V. berlandieri*] was the subject of physiological, transcriptomic and proteomic analysis that highlighted its higher tolerance to drought and salinity stress in comparison with other rootstocks. However, little information is available about its metabolic responses to the availability of nitrate (NO₃⁻), the major form of N nutrient used by plants in agricultural soils. The aim of this study was to determine the metabolic events involved in NO₃⁻ acquisition in M4. In details, young M4 plants, grown in a hydroponic system, after a period of N starvation were maintained in the absence of N (control condition) or exposed to 10 mM NO₃⁻. Firstly, the changes of some biochemical parameters (such as NO₃⁻, sugar and amino acid contents) as well as the evaluation by Western blot analyses of the abundances of key enzymes (i.e. Nitrate Reductase and Glutamine Synthetase) were used to define the time course of the metabolic changes occurring in the first 30 h. Taken together, the results showed that root N metabolism significantly increased after 30 h of NO₃⁻ availability. To gain a better characterization, a proteomic analysis based on one-dimensional (1D) Gel Liquid Chromatography-Mass Spectrometry (GeLC-MS/MS) was conducted, comparing the root profiles in the control condition and after 30 h of NO₃⁻ induction. This approach allowed the identification of some hundreds of proteins, with high reliability and good reproducibility. Many of the proteins found to change in abundance were directly involved in NO₃⁻ uptake and assimilation, such as H⁺-ATPase, Nitrite Reductase and Glutamine Synthetase. According to the induction of N metabolism, some root enzymes involved in protein synthesis, folding and trafficking showed a relevant increment in abundances after 30 h of NO₃⁻ availability, while those involved in flavonoid metabolism generally showed a down-accumulation. Moreover, the results underlined the strict relationships between N nutrition, carbon metabolism and the metabolic pathways implicated in cell redox status. Overall, the proteomic analysis reveals that NO₃⁻ provision significantly affected the root proteome of M4 grapevine rootstocks, providing novel information about the biochemical pathways involved in N metabolism in this perennial plant. This study lays the bases for a better elucidation of the relations among N nutrition, rootstock/scion interactions and productivity in grapevine.

List of Participants

First Name	Last Name	Affiliation	Country	Email	Presentation
Giorgio	Arrigoni	University of Padova	Italy	giorgio.arrigoni@unipd.it	Oral 1.3, P1.5
Ray	Bacala	Canadian Grain Commission	Canada	ray.bacala@grainscanada.gc.ca	Oral 1.2
Bridget Hua	Bai	University of California San Diego	USA	hubai@ucsd.edu	P1.2
Emmanuelle	Bancel	INRAE UCA	France	emmanuelle.bancel@inrae.fr	P1.6
Ana Paulina	Barba de la Rosa	Instituto Potosino	Mexico	apbarba@ipicyt.edu.mx	P1.8
Ilaria	Battisti	University of Padova	Italy	ilaria.battisti@studenti.unipd.it	Oral 1.3, P1.5, P4.5
Willy	Bienvenut	GQE-Le Moulon, Univ Paris-Saclay	France	willy.bienvenut@universite-paris-saclay.fr	P7.2
Tatiana	Bilova	St. Petersburg State University	Russia	bilova.tatiana@gmail.com	Oral 2.2, P3.7, P7.1
Laurence	Bindschedler	Royal Holloway University of London	UK	laurence.bindschedler@rhul.ac.uk	Oral 3.3
Mélisande	Blein-Nicolas	INRAE	France	melisande.blein-nicolas@inrae.fr	Oral 1.1, P7.2
Roque	Bru-Martinez	University of Alicante	Spain	roque.bru@ua.es	P2.2, P7.3
Reid	Buchanan	University of Guelph	Canada	rbucha03@uoguelph.ca	Oral 3.1
Natalia	Bykova	Agriculture and Agri-Food Canada	Canada	Natalia.Bykova@canada.ca	P3.2
Maria Angeles	Castillejo	University of Cordoba	Spain	bb2casam@uco.es	P4.7
Ivan	Cerritos-Castro	Instituto Potosino	Mexico	ivan.cerritos@ipicyt.edu.mx	P1.13
Katherine	Cordova	Canadian Grain Commission	Canada	katherine.cordova@grainscanada.gc.ca	
Francisco J	Corpas	Spanish National Research Council	Spain	javier.corpas@eez.csic.es	P1.1, P1.11
Maksym	Danchenko	Plant Science and Biodiversity Center SAS	Slovakia	maksym.danchenko@savba.sk	P1.7, P4.4
Jonas	De Backer	VIB UGent	Belgium	jonas.debacker@psb.vib-ugent.be	
Inge	De Clercq	Ghent University	Belgium	inle@psb.ugent.be	
Luciana	De Oliveira	INRAE	France	luciana-marcia.de-oliveira@inrae.fr	Oral 1.1
Laurie	De Rozario	ThermoFisher Scientific	Canada	aurie.derozario@thermofisher.com	
Slavica	Djuric-Ciganovic	Agriculture and Agri-Food Canada	Canada	slavica.djuric-ciganovic@canada.ca	
Leonard	Ebinezer	University of Padova	Italy	leonardbarnabas.e@gmail.com	Oral 1.3, P1.5
Luca	Espen	Università degli Studi di Milano	Italy	luca.espen@unimi.it	P6.2, P6.3
Sufia	Farhat	Punjab technical university jallandhar	India	farhatsophie@gmail.com	P1.9
Ursula	Fernando	Agriculture and Agri-Food Canada	Canada	ursula.fernando@canada.ca	P3.2
Joana	Figueiredo	University of Lisboa	Portugal	jffigueiredo@fc.ul.pt	Oral 3.2
Cinzia	Franchin	University of Padova	Italy	cinzia.franchin@unipd.it	

Andrej	Frolov	Leibniz-Institute of Plant Biochemistry	Germany	afrolov@ipb-halle.de	Oral 2.2, P3.1, P3.7, P4.2, P7.1, P7.5
Nadezhda	Frolova	St. Petersburg State University	Russia	frolovanadja@yandex.ru	P3.1
Jennifer	Geddes-McAlister	University of Guelph	Canada	jgeddesm@uoguelph.ca	Oral 3.1, P7.7
Lilianne	Gee	University of Guelph	Canada	geel@uoguelph.ca	
Salvador	Gonzalez-Gordo	CSIC	Spain	salvador.gonzalez@eez.csic.es	P1.1, P1.11
Daria	Gorbach	St. Petersburg State University	Russia	daria.gorba4@yandex.ru	P3.1, P4.2
Estelle	Goulas	Lille University	France	estelle.goulas@univ-lille.fr	P1.4
Leonor	Guerra-Guimarães	Universidade de Lisboa	Portugal	leonorguimaraes@edu.ulisboa.pt	Oral 3.2, P3.3
Dulan	Gunasekara	BASF	USA	dulan.gunasekara@basf.com	
Aslihan	Gunel	Ahi Evran University	Turkey	agunel@ahievran.edu.tr	P3.5
Mei	Huang	Agriculture and Agri-Food Canada	Canada	mei.huang@canada.ca	P3.2
Maxence	James	UMR CNRS-Lille	France	maxence.james@unicaen.fr	P1.4
Elisabeth	Jamet	Labo. de Recherche en Sciences Végétales	France	jamet@lrsv.ups-tlse.fr	P1.10, P1.12
Dominique	Job	CNRS	France	job.dominique@gmail.com	
Jesús V.	Jorrín Novo	University of Cordoba	Spain	bf1jonoj@uco.es	KEYNOTE P3.8, P4.7
Ramesh	Katam	Florida A&M University	USA	ramesh.katam@famuedu	Oral 2.3
Yana	Kazachkova	Weizmann Institute	Israel	yana.kazachkova@weizmann.ac.il	
Ahyoung	Kim	Leibniz Institute of Plant Biochemistry	Germany	akim@ipb-halle.de	Oral 2.2, P3.7
Hasan	Kolkas	Labo. de Recherche en Sciences Végétales	France	hasan.kolkas@lrsv.ups-tlse.fr	P1.10, P1.12
Bruno	Komazec	University of Zagreb	Croatia	bruno.komazec@biol.pmf.hr	P5.2
Klára	Kosová	Crop Research Institute	Czechia	kosova@vurv.cz	P4.1
Karla	Košpić	University of Zagreb	Croatia	karla.kospic@biol.pmf.hr	P5.4
Maryke	Labuschagne	University of the Free State	South Africa	labuscm@ufs.ac.za	P4.3
Mélanie	Lavoignat	INRAE-UCA	France	melanie.lavoignat@inrae.fr	
Tatiana	Leonova	Leibniz Institute of Plant Biochemistry	Germany	tleonova@ipb-halle.de	P7.5
Boyan	Liu	University of Guelph	Canada	bliu13@uoguelph.ca	Oral 3.1
Tjaša	Lukan	National Institute of Biology	Slovenia	tjasa.lukan@nib.si	
Sabine	Lüthje	Universität Hamburg	Germany	sabine.luethje@uni-hamburg.de	
Wendy	Lyzenga	Global Institute for Food Security	Canada	wendy.lyzenga@gifs.ca	P2.1
Nasser	Mahna	University of Tabriz	Iran	n.mahna@gmail.com	P5.1
Madhyia	Manzoor	Sher-e-Kashmir University	India	madhiyamanzoor100@gmail.com	P4.8
Ascensión	Martínez Márquez	University of Alicante	Spain	asun.martinez@ua.es	P2.2, P7.3
Antonio	Masi	University of Padova	Italy	antonio.masi@unipd.it	Oral 1.3, P1.5, P4.5
Silvia	Mazzuca	Department of Chem. & Chem. Technol.	Italy	silvia.mazzuca@unical.it	P7.4,
Athanassios	Molassiotis	Aristotle University of Thessaloniki	Greece	amolasio@agro.auth.gr	P5.5

Yordan	Muhovski	Walloon Agricultural Research Centre	Belgium	y.muhovski@cra.wallonie.be	P6.4
Chiara	Muratore	University of Milan	Italy	chiara.muratore@unimi.it	P6.2, P6.3
José M.	PALMA	CSIC	Spain	josemanuel.palma@eez.csic.es	P1.1, P1.11
Petra	Peharec Štefanić	University of Zagreb	Croatia	ppeharec@biol.pmf.hr	P5.2, P5.3
Miroslav	Perniš	Plant Science and Biodiversity Center	Slovakia	miroslav.pernis@savba.sk	P1.7, P4.4
Carole	Pichereaux	CNRS	France	carole.pichereaux@ipbs.fr	
Amalia	Piro	University of Calabria	Italy	amalia.piro@unical.it	P7.4,
Bhakti	Prinsi	University of Milan	Italy	bhakti.prinsi@unimi.it	Oral 2.1, P6.2, P6.3
Zachary	Provost	University of Ottawa	Canada	zacharyprovost@icloud.com	P7.6
Nicholas	Prudhomme	University of Guelph	Canada	nprudhom@uoguelph.ca	P7.7
Natasa	Radovanovic	Agriculture and Agri-Food Canada	Canada	natasa.radovanovic@canada.ca	P3.2
Christof	Rampitsch	Agriculture and Agrifood Canada	Canada	chris.rampitsch@canada.ca	P3.2, P3.5
Michelle	Rampitsch	Agriculture and Agrifood Canada	Canada	michelle.rampitsch@canada.ca	P3.2
Jenny	Renaut	Luxembourg Inst. of Science and Technol.	Luxembourg	jenny.renaut@list.lu	Oral 3.2, P3.3, P4.6
María Dolores	Rey	University of Cordoba	Spain	b52resam@uco.es	P3.8, P4.7
Norbert	Rolland	Université Grenoble Alpes	France	norbert.rolland@cea.fr	
Bonosio	San Eufrasio	University of Cordoba	Spain	z82samab@uco.es	P4.7
Véronique	Santoni	INRAE	France	veronique.santoni@inrae.fr	P2.3
Rita	Santos	Universidade de Lisboa	Portugal	absantos@fc.ul.pt	Oral 3.2, P3.6
Alessio	Scarafoni	Università degli Studi di Milano	Italy	alessio.scarafoni@unimi.it	Oral 2.1
Kjell	Sergeant	Luxembourg Inst. of Science and Technol.	Luxembourg	kjell.sergeant@list.lu	P4.6
Vanildo	Silveira	Univ. Estadual do N. Fluminense Darcy Ribeiro	Brazil	vanildo@uenf.br	P1.3
Jun	Song	Agriculture and Agri-Food Canada	Canada	jun.song@canada.ca	INV Oral 1
Katja	Stare	National Institute of Biology	Slovenia	katja.stare@nib.si	
Gopal	Subramaniam	Agriculture and AgrifoodCanada	Canada	rajagopal.subramaniam@canada.ca	PLEN 3
Agnieszka	Szuba	Polish Academy of Sciences	Poland	aszuba@man.poznan.pl	P3.4
Georgia	Tanou	Institute of Soil and Water	Greece	gtanou@swri.gr	INV Oral 3 P5.5
R. Glen	Uhrig	University of Alberta	Canada	ruhrig@ualberta.ca	PLEN 2
Marija	Vidovic	University of Belgrade	Serbia	mvidovic@imgge.bg.ac.rs	P4.5
Stefanie	Wienkoop	University of Vienna	Austria	wienkoop@gmx.net	INV Oral 2
John	Withers	BASF Regulatory Science	USA	john.withers@basf.com	
Dristy	Zaman	University of Western Ontario	Canada	rzaman3@uwo.ca	P6.1
Michel	Zivy	GQE-Le Moulon, Univ Paris-Saclay	France	michel.zivy@inrae.fr	Oral 1.1, P1.12, P7.2

