

Monday July 3rd			
14h-17h	Registration		
16h30 - 17h	<b>Opening</b>		
	Welcome by Marie-Aude Vitrani, Vice President Sorbonne Université, Institutional Life and Participation		
	Welcome by C. Bailly (Sorbonne Université) and J. Buitink (President of ISSS)		
	Presentation of Seed Science Research, H. Hilhorst		
	A Tribute to Mike Black and Derek Bewley: F. Corbineau, K. Bradford and H. Hilhorst		
			<i>Chair</i>
17h-18h	Derek Bewley Career Lecture: A life in the SCIENCES	Hugh W. Pritchard	Kew Royal Botanic Gardens, UK
18h	<b>Welcome cocktail</b>		<i>Julia Buitink</i>
Tuesday July 4th			
	<b>SESSION 1 : Seed biology under environmental changes</b>		<i>Bill Finch Savage</i>
8h30 - 9h	<b>Keynote speaker : Maternal environment: what is it and how does it affect seed traits?</b>	Steve Penfield	John Innes Centre, UK
9h-9h15	Aethionema arabicum; a novel model to study the light control of seed germination	Zsuzsanna Mérai	Gregor Mendel Institute of Molecular Plant Biology, Austria
9h15-9h30	Sunflower field establishment, a critical step for crop yield, could be predicted with phenotyping early plant stages in controlled conditions.	MH Wagner	GEVES, France
9h30-9h45	Interactions between seed functional traits and environmental stressors and their influence on seed germination of Australian native species	Fernanda Caro Beveridge	The University of Queensland, Australia
9h45-10h00	Pericarp-driven transcriptomic changes integrate indehiscent vs dehiscent germination response to imbibition and maternal temperature in dimorphic diaspore model Aethionema arabicum	Jake O. Chandler	University of London, UK
10h00-10h15	Development of a new method for tree seed hormone quantification	Thomas Wilkes	Cranfield University, UK
10h15-10h45	<b>Break - Sponsored by Gautier Semences</b>		
10h45-11h00	Assembling the plant holobiont: distinct roles for seed imbibition and germinative metabolism.	Davide Gerna	Kew Royal Botanic Gardens, UK
11h00-11h15	Uncovering the seed specialized metabolome induced by warm temperatures	Léa Barreda	Institut Jean-Pierre Bourgin, France
11h15-11h30	The art of multitasking: PEBP genes and their role in seed dormancy determination	Judit Nadal Bigas	Wageningen University, The Netherlands
11h30-11h45	Temperature during seed maturation regulates seedling emergence of weedy rice in the field	Toshiyuki Imaizumi	Naro National Agriculture and Food Research Organization, Japan
12h00-12h15	Arabidopsis VEL3 maintains maternal control over progeny seed dormancy	Xiaochao Chen	John Innes Centre, UK
12h15-13h30	<b>Lunch</b>		
	<b>SESSION 2: Global change, adaptation and seed ecology</b>		<i>Hector Perez</i>
13h30-14h	<b>Keynote speaker : Influence of seed microbiota on germination and emergence : new perspectives through a meta-analysis and the use of synthetic communities</b>	Marie Simonin	Institut de Recherche en Horticulture et Semences, France
14h-14h15	Temperature control of dormancy and germination of Fraxinus excelsior (L.) seeds	Wawrzyniak Mikolaj	Institute of Dendrology, Poland
14h15-14h30	Deciphering the Complex Interplay between Seed Exudates and Microorganisms during Seed Germination in Common Bean Genotypes	Chandrodhay Saccaram	Institut Jean-Pierre Bourgin, France
14h30-14h45	Genetic bases of dormancy and Pre-Harvest Sprouting (PHS) resistance in grain sorghum	Roberto Benech-Arnold	University of Buenos Aires, Argentina
14h45-15h00	Exceptional desiccation resistance in recalcitrant seeds of the widespread, tropical tree, Brosimum alicastrum	Louise Colville	Kew Royal Botanic Gardens, UK
15h00-15h30	<b>Break</b>		
15h30-15h45	Incorporating seed traits to functionally group species to better predict biodiversity impacts	Mark Ooi	University of New South Wales, Australia
15h45-16h00	Selecting native seeds and fungi for the revegetation of coastal dunes altered by Carpobrotus species	Sara Magrini	Tuscia University, Italy
16h00-16h15	Study of intraspecific variation in continuous dispersal traits at three ecological levels	Manuel Jesus Garcia Serrano	Ben-Gurion University of the Negev, Israel
16h15-16h30	Exploration of Seed Morphology, Microbiota, Vigor and Metabolic Signature Among Eight Common Bean Genotypes	Louna Colaert-Sentenac	Institut de Recherche en Horticulture et Semences, France
16h30-18h30	<b>Posters</b>		
Wednesday July 5th			
	<b>SESSION 3: Biodiversity and plant species protection</b>		<i>Françoise Corbineau</i>
8h30 - 9h	<b>Keynote speaker : Seed physiology and conservation of tropical species</b>	Neusa Steiner	Federal University of Santa Catarina, Brazil
9h-9h15	Ageless beauty: Storage length fails to predict seed viability for a critically imperiled coastal plant	Jessamine Finch	Native Plant Trust, United States
9h15-9h30	Direct seeding, nursery propagation, or endozoochory? finding an effective strategy for propagating an Australian sedge from seed	Lorena Ruiz Talonia	BioBank Seed, Australia

9h30-9h45	Lipid thermal fingerprints of Hawaiian Campanulaceae seeds with intermediate storage behavior	Dustin Wolkis	National Tropical Botanical Garden, United States	
9h45-10h00	Magnolia seed banking in China: progress and perspective	Xiao-Jian Hu	Kunming Institute of Botany, China	
10h00-10h15	Seeds exposed: automating morphological seed trait extraction from images	Roberta Dayrell	Kew Royal Botanic Gardens, UK	
10h15-10h45	<b>Break - Sponsored by Rijk Zwaan</b>			
	<b>SESSION 4: From genes to seed biology, novel issues in molecular mechanisms and beyond</b>			<b>George Bassel</b>
10h45-11h15	<b>Keynote speaker : Cellular dynamics of coenocytic endosperm development in Arabidopsis thaliana</b>	<b>Tomokazu Kawashima</b>	<b>University of Kentucky, USA</b>	
11h15-11h30	From the seed to the air: How can embryos produce a continuous cuticle?	Joan Renard	Reproduction et développement des plantes, France	
11h30-11h45	BRAHMA, A SWI/SNF COMPLEX REGULATING SEED LONGEVITY IN ARABIDOPSIS	Julia Zinsmeister	Institut Jean-Pierre Bourgin, France	
11h45-12h00	Different strategies in regulation of redox status, dynamics of proteins and metabolites in orthodox and recalcitrant Acer seeds to accomplish germination and perform seedlings	Ewa Kalembe	Polish Academy of Sciences, Poland	
12h00-12h15	Contrasting fatty acid compositions in the albumen and embryo of Brassicaceae seeds: how and why?	Sébastien Baud	Institut Jean-Pierre Bourgin, France	
12h15-13h30	<b>Lunch</b>			
13h30-13h45	What happens as a genome wakes up? Single-cell and spatial transcriptomic analyses of seed germination.	Mathew G Lewsey	LaTrobe University, Australia	<b>Kent Bradford</b>
13h45-14h00	Polyphenol oxidase function is associated with hilum pigmentation and has been selected during domestication	Petr Smykal	Palacky University, Czech Republic	
14h-14h15	Exploring the role of AHG1 and AHG3 in controlling dormancy through multi-level proteomic analysis in seeds	Thorben Kruger	University of Münster, Germany	
14h15-14h30	EIN3-DOG1 module plays a vital roles in regulating seed dormancy	Min Chen	Henan University, China	
14h30-14h45	Seed dormancy control by UBA2A in Arabidopsis thaliana	Ce Wang	Institute of Biochemistry and Biophysics, Poland	
14h45-15h15	<b>Break</b>			
15h15-15h30	Seed size control via phloem end by callose deposition/degradation of the callose related enzymes	Ryushiro Kasahara	Nagoya University, Japan	<b>Leonie Benstink</b>
15h30-15h45	Transcriptional control of the endosperm maturation program and galactomannan cell wall deposition in Coffea species	Thierry Joet	Université de Montpellier, France	
15h45-16h15	<b>Mike Black Founders Lecture: Plant desiccation tolerance - Surviving in a drying world</b>	<b>Mariana Silva Arthur</b>	<b>Wageningen University, The Netherlands</b>	
16h30-18h30	<b>Posters &amp; ISSS GENERAL ASSEMBLY</b>			
<b>Thursday July 6th</b>				
8h30 - 9h	<b>Alfred Meyer Plenary Lecture: Seeds as climate adapted environmental sensors</b>	<b>Steven Footitt</b>	<b>Bogazici University, Turkey</b>	<b>Henk Hilhorst</b>
9h-9h15	Protection and selective translation of long lived mRNAs during seed storage and germination	Kees Ketting	Wageningen University, The Netherlands	
9h15-9h30	Kaempferol-3-rhamnoside overaccumulation in flavonoid 3'-hydroxylase tt7 mutants compromises seed coat outer integument differentiation and seed longevity	Regina Ninoles	Instituto de Biología Molecular y Celular de Plantas, Spain	
9h30-9h45	Metabolic and hormonal regulation of grain filling in cereals	Volodymyr Radchuk	Leibniz Institute of Plant Genetics and Crop Plant Research, Germany	
9h45-10h00	New functions for TCP transcription factors in Arabidopsis seeds: TCP8 as a negative regulator of germination	Mimi Tian	Institut de Biologie Paris-Seine, France	
10h00-10h15	Regulation of seed coat development in Arabidopsis thaliana	Sonia Gazzarrini	University of Toronto, Canada	
10h15-10h30	Sunflower seed-specific HSF A9 as a chromatin memory inducer before the seedling transition	Juan Jordano	IRNA de Sevilla, Spain	
11h00	<b>Bus departure for visits</b>			
<b>Afternoon</b>	<b>Visits</b>			
19h	<b>Gala Dinner</b>			
<b>Friday July 7th</b>				
9h-9h15	Enhancing annotation of genes associated with seed germination control in non-model plant species	Giuseppe Diego Puglia	Institute for Agricultural and Forest Systems in the Mediterranean, Italy	<b>Loïc Rajjou</b>
9h15-9h30	Population-based Threshold Models Can Describe Seed Quality Development during Maturation	Kent J. Bradford	University of California Davis, USA	
9h30-9h45	Molecular basis for the control of seed dormancy by DOG1 independently of the ABA core machinery.	Guillaume Née	University of Münster, Germany	
9h45-10h00	Role of manganese transporters in Arabidopsis seeds	Alexandra Leskova	Institut des Sciences des Plantes de Montpellier, France	
	<b>SESSION 5: Seed engineering - co-organized with ISTA</b>			<b>Manuela Nagel</b>
10h00-10h30	<b>Keynote speaker : Introducing plant beneficial microorganisms into plant seed – next-generation seed treatment technologies</b>	<b>Birgit Mitter</b>	<b>Ensemo GmbH, Austria</b>	
10h30-11h00	<b>Break</b>			
11h00-11h15	Compost microbiota enhance susceptibility to thermoinhibition in lettuce seeds	Olivier Leprince	Institut de Recherche en Horticulture et Semences, France	
11h15-11h30	Real-time measurement of molecular processes during seed germination	George Bassel	University of Warwick, UK	
11h30-11h45	Investigating the effects of cold ambient air plasma on Arabidopsis seed physiology	Jonas August	Sorbonne Université, France	
11h45-12h00	Novel seed priming with gas plasma activated water in Ethiopia's crop tef (Eragrostis tef)	Lena Fatelnig	University of London, UK	

12h00-12h15	Seed bacteria antagonistic to fungi can support germination of low vigour seeds	Thomas Roach	University of Innsbruck, Austria		
12h15-12h30	Activation of tomato seed defenses through integration of seed and defense priming	Jerome Verdier	Institut de Recherche en Horticulture et Semences, France		
12h30-12h45	Closing				
	<b>Lunch</b>				