



13-17 May, 2019 - Dijon, France

Registration
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Online registration closes April 22nd, 2019



International Conference
on **Legume** Genetics
and Genomics
13-17 May - 2019, Dijon, France

**FOR THE PEOPLE
AND THE PLANET**

**HARNESSING THE POTENTIAL
OF LEGUMES**

Genomes & Functional Genomics
Seed biology and quality
Plant development and signalling
Genomics for agro-ecological services
Biotic and Abiotic stress resistance
Genome-enabled breeding
Legume diversity
Symbioses

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ICLGG 2019

SCIENTIFIC PROGRAM & Poster list

Updated April 15, 2019

Monday, May 13th

Session 1 - INTRODUCTION AND OPENING – 18:00-19:15PM

Session chairs: Judith Burstin (INRA, France) & Noel Ellis (University of Auckland, New Zealand)

Time	Speaker	Country	Title	Talk
18:15	Christophe Breuillet Managing director, Vitagora	France	KEYNOTE Legumes for the people and the planet: mobilisation of an innovation ecosystem	30'
18:45	Dr. Zia Mehrabi The School of Public Policy and Global Affairs, the Institute for Resources Environment and Sustainability, and the Center for Sustainable Food Systems at the University of British Columbia	Canada	KEYNOTE Challenges faced by agriculture and the role of legume crops in the 21st Century	30'

Organisers



Tuesday, May 14th

Session 2 – GENOMES – 09:00-10:45am

Session chairs: Kirstin Bett (University of Saskatchewan, Canada) & Frederic Debelle (INRA, France)

Time	Speaker	Country	Title	Talk
09:00	Dr. Jérôme Salse Research Director, National Research Institute of Agronomy	France	KEYNOTE Tracing legume origin and evolution through computational reconstruction of extinct ancestral genomes	30'
09:30	Stig U. Andersen Associate professor, Aarhus University	Denmark	Extreme genetic signatures of local adaptation during plant colonization	15'
09:45	Maria Munoz-Amatriain Assistant Professor, Colorado State University	United States	Development and utilization of cowpea genetic and genomic resources	15'
10:00	Barbara Hufnagel Postdoc, BPMP -CNRS	France	High quality genome sequence reveals important events during domestication of White Lupin	15'
10:15	Mohan Singh Professor, The University of Melbourne	Australia	Long Non-coding RNA repertoire of Soybean and identification of lncRNAs potentially associated with agronomic traits	15'
10:30	Changyou Liu Associated professor, Institute of Cereal and Oil Crops	China	Improvement of mungbean genome by Pacbio Sequel and Hi-C	5' flash
10:35	Leandro Andrés Escobar-Herrera Ph.D Student, Aarhus University	Denmark	The pan-transcriptome of <i>Vicia faba</i>	5' flash
10:40	Wojciech Bielski PhD Student, Polish Academy of Sciences	Poland	Oligo-based approach for comparative mapping of lupin chromosomes	5' flash

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Session 3 - **FUNCTIONAL GENOMICS** – 11:30am-13:00pm

Session chairs: Stig Uggerhøj Andersen (Aarhus University, Demark) & Gina Hernandez (Centro de Ciencias Genómicas – UNAM, Mexico)

Time	Speaker	Country	Abstract Title	Talk
11:30	Dr. Jean-Michel Ané Professor of Bacteriology and Agronomy, University of Wisconsin- Madison	United States	KEYNOTE Gene and protein networks controlling associations between legumes and their microbial symbionts	30'
12:00	Prem Bhalla Professor, The University of Melbourne	Australia	Unraveling Molecular Regulators of Floral Transition in Shoot Apical Meristem of Soybean	15'
12:15	Rebecca Dickstein Professor, University of North Texas	United States	Forward genetics coupled with genome sequencing identifies genes essential for symbiotic nitrogen fixation in the <i>Medicago truncatula</i> Tnt1 population	15'
12:30	Martin Crespi Research Director IPS2, Institute of Plant Sciences Paris Saclay IPS2	France	Impact of MtDCL3 and MtRTL1b, two ribonucleases type III, in small RNA and epigenetic dynamics of symbiotic nodules in <i>Medicago truncatula</i>	15'
12:45	Kirankumar Mysore Professor, Noble Research Institute	United States	Tnt1 insertion lines: A functional genomics tool in <i>Medicago truncatula</i>	5' flash
12:50	Damien Formey Junior Group Leader, Center for Genomic Sciences	Mexico	The regulation of symbiotic nitrogen fixation by microRNAs in the model legume <i>Phaseolus vulgaris</i>	5' flash
12:55	Johan Quilbe PhD student, IRD	France	Forward genetics in <i>Aeschynomene evenia</i> identifies genes of the Nod signaling pathway and a new Receptor-like Cytoplasmic Kinase that is specific to the Nod-independent symbiosis	5' flash

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Session 4 – SEED BIOLOGY AND QUALITY – 14:30pm-16:15pm

Session chairs: Richard Thompson (INRA, France) & Claire Domoney (John Innes Centre, United Kingdom)

Time	Speaker	Country	Title	Talk
14:30	Pr John Harada PhD Department of Plant Biology, University of California, Davis	United States	KEYNOTE Dissection of Gene Networks Governing Seed Development	30'
15:00	Claire Domoney Head of Metabolic Biology, John Innes Centre	United Kingdom	Genetics and genomics of seed quality traits in pea	15'
15:15	Julia Buitink Research director, INRA	France	Identification of the ABSCISIC ACID4 transcription factor in the environmental control of seed longevity during maturation in legume seeds.	15'
15:30	Maria Stefanie Dwiyantri Assistant Professor, Hokkaido University	Japan	Sequence analysis and marker development for high α - tocopherol soybean: targeting γ -tocopherol methyltransferase gene γ -TMT3	15'
15:45	Vanessa Vernoud Research director, INRA Agroecology	France	Characterization of the biosynthesis of saponins during seed development in peas (<i>Pisum sativum</i>).	15'
16:00	Maria Carlota Vaz Patto Principal Investigator, Instituto de Tecnologia Química e Biológica António Xavier	Portugal	Genetic architecture landscape of common bean metabolome – An association study for quality breeding	5' flash
16:05	Kevin Cartelier PhD student, INRA	France	Elucidating the genetic determinism of the plasticity of seed proteins in response to the environment using <i>Medicago truncatula</i>	5' flash
16:10	Alanna Orsak Graduate Student, University of Saskatchewan	Canada	Genome-Wide Association Study for Seed Quality Traits in Chickpea	5' flash

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Session 5 – LEGUME GENETIC DIVERSITY – 17:00pm-18:30pm

Session chairs: Soraya Leal-Bertioli (University of Georgia, USA) & Clarice Coyne (U.S. Department of Agriculture, USA)

Time	Speaker	Country	Title	Talk
17:00	Pr Colin Hughes Department of Systematic & Evolutionary Botany, University of Zurich	Switzerland	KEYNOTE Phylogenomics and evolutionary diversification of legumes – Live fast and die young	30'
17:30	Roberto Papa Professor, Università Politecnica delle Marche	Italy	Bean Adapt: the genomics of adaptation during crop expansion of common bean	15'
17:45	Candy Taylor PhD Student, The University of Western Australia	Australia	Genome-wide association study to identify new QTLs for flowering time variation with and without vernalisation in narrow-leaved lupin	15'
18:00	Timo Hellwig Ph.D. student, The Hebrew University of Jerusalem	Israel	Tapping the genetic resources of wild pea: Genetic response of <i>Pisum fulvum</i> to drought stress	15'
18:15	Toby Newman Postdoctoral Research Fellow, Curtin University (Centre for Crop and Disease Management)	Australia	Exploiting wild germplasm to expand the genetic diversity and enhance the adaptive potential of domesticated chickpea	5' flash
18:20	Dahmane Hadou El Hadj Phd, Université Paris Sud	France	Characterization of the bean populations and their symbionts	5' flash
18:25	Janila Pasupuleti International Crops Research, Institute for the Semi-Arid Tropics	India	CRP-GLDC adopts modern breeding approaches to enhance efficiencies of six grain legumes.	5' flash

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Wednesday, May 15th

Session 6 – PLANT DEVELOPMENT AND SIGNALLING – 9:00-10:35am

Session chairs: Catherine Rameau (INRA, France) & Jim Weller (University of Tasmania, Australia)

Time	Speaker	Country	Title	Talk
09:00	Dr. Catherine Rameau Senior Research director, INRA	France	KEYNOTE Deciphering strigolactone biosynthesis and 7 signalling pathways in pea for perspectives of applications	30'
09:30	Joanna Putterill Professor, University of Auckland	New Zealand	Genetic control of primary shoot length and flowering time indicated by over expression of MtCDF5 a CYCLING DOF FACTOR-LIKE gene in <i>Medicago</i>	15'
09:45	Shaoli Zhou PhD student, Chinese Academy of Sciences	China	F-box protein INP1 regulates motor organ development and organ size in <i>Medicago truncatula</i>	15'
10:00	Julie Hofer Director, Shortland Flats Limited	New Zealand	Comparative Genetics of Leaf Shape Determination	15'
10:15	Jim Weller Associate professor, University of Tasmania	Australia	Genetic Analysis of Time to Flowering in Common Bean	15'
10:30	Cécilia Gallardo pHD, INRA	France	White lupin cluster root, a model to understand lateral root developmental adaptations	5' flash
10:35	Didier Socquet-Juglard Research Associate, University of Saskatchewan	Canada	Identification of a major QTL for shattering resistance common to three interspecific lentil populations	5' flash
10:40	Shengbin Liu PhD, IPS2	France	Role of the NBCL genes in Legume symbiosis	5' flash

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Session 7 – GENOMICS FOR AGRO-ECOLOGICAL SERVICES – 11:30am-12:55pm

Session chairs: Xavier Pinochet (Terres Inovia, France) & Jean Michel Ané (University of Wisconsin-Madison, USA)

Time	Speaker	Country	Title	Talk
11:30	Pr Eric Kemen Interfaculty Institute of Microbiology and Infection Medicine & Center for Plant Molecular Biology, University of Tuebingen	Germany	KEYNOTE Dissecting complex microbial communities for advanced probiotics development	30'
12:00	Maria Monteros Associate Professor, Noble Research Institute	United States	Translational Genomics to Leverage Discoveries in Alfalfa to Advance Breeding in Cover Crop Legumes	15'
12:15	Marc Lepetit DR2, INRA	France	The competitiveness to form nodules shapes the capacities of <i>Rhizobium leguminosarum</i> sv viciae communities to promote symbiosis with specific hosts	15'
12:30	K. Peter Pauls Professor, University of Guelph	Canada	Dry bean (<i>Phaseolus vulgaris</i>) crop diversity effects on production	5' flash
12:35	Lukas Wille Doctoral Student, Molecular Plant Breeding, IAS, ETH Zürich	Switzerland	Genome-wide association study for resistance of pea against a complex of root rot pathogens	5' flash
12:40	Thibault Guegan PhD Student, INRA	France	Determinism and genetic diversity of pea intercropping ability in pea-wheat association	5' flash
12:45	Difo Voukang Harouna PhD Student, Nelson Mandela African Institution of Science and Technology	Tanzania, United Republic Of	Non- Domesticated Legumes (<i>Vigna</i> Species): Farmer's Perceptions, Preferences and Prospective Uses towards Human exploitation	5' flash
12:50	Xavier Pinochet Head of MTI dept, Terres Inovia, France	France	PHENOVI A a field experimental platform in Burgundy for grain legumes phenotyping under low chemical inputs.	5' flash

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Session 8 – SYMBIOSES – 14:30-16:30pm

Session chairs: Julia Frugoli (Clemson University, USA) & Peter Kalo (NARIC Agricultural Biotechnology Institute, Hungary)

Time	Speaker	Country	Title	Talk
14 :30	Pr. Jens Stougaard Professor, Aarhus University	Denmark	KEYNOTE Signals and receptors in the genetic program controlling legume symbiosis	30'
15:00	Catalina Pislariu Assistant Professor, Texas Woman's University	United States	Nodule-specific PLAT domain proteins required for nitrogen-fixing symbiosis and host-strain specificity	15'
15:15	Jean-Francois Arrighi Research Scientist, IRD	France	The genome sequence of the Nod-independent <i>Aeschynomene evenia</i> uncovers new features of the rhizobium-legume symbiosis	15'
15:30	Julia Frugoli Professor, Clemson University	United States	The early transcriptomes of <i>M. truncatula</i> wild type and hypernodulation mutant plants inoculated with rhizobia implicate targets of the autoregulation of nodulation (AON) pathway	15'
15:45	Florian Frugier Researcher, CNRS	France	Local and systemic pathways regulating symbiotic nodulation in the <i>Medicago truncatula</i> legume	15'
16:00	Anna Kirienco Junior researcher, All-Russia Institute for Agricultural Microbiology	Russia	Structural variations in LysM domains of <i>Pisum sativum</i> L. LysM-RLK K1 may result in a different effect on pea-rhizobial symbiosis development	15'
16:15	Celine Mens PhD candidate, The University of Queensland	Australia	Characterisation of <i>Medicago truncatula</i> CLE34 and CLE35 in nitrate-dependent regulation of nodulation	5' flash
16:20	Brent Kaiser Professor of Legume Biology, The University of Sydney	Australia	The synergistic relationship between the bHLHm1 TF and the ammonium transporter AMF1 in rhizobia and AM fungal symbioses of legumes	5' flash
16:25	Pascal Ratet DR2, IPS2 CNRS	France	Legume NODULE-ROOT-LIKE genes and symbiotic organ identity	5' flash

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Thursday, May 16th

Session 9 - ABIOTIC STRESS RESISTANCE – 09:00-10:45am

Session chairs: Nijat Imin (University of Auckland, New Zealand) & Rebecca Ford (Griffith University, Australia)

Time	Speaker	Country	Title	Talk
09:00	Dr Kaoru Urano Research Scientist, RIKEN Center for Sustainable Resource Science	Japan	KEYNOTE Transcriptome and metabolome analysis of soybean in response to drought stress	30'
09:30	Nijat Imin Senior Lecturer, The University of Auckland	New Zealand	Peptide-mediated conserved signalling mechanisms regulate root and nodule development in response to nitrogen availability	15'
09:45	Caspar Chater MSCA IF Global Fellow, University of Sheffield	Mexico	Improving legume Water Use Efficiency by exploiting Epidermal Patterning Factor signalling	15'
10:00	Yun Kang Staff Scientist, Noble Research Institute	United States	Genome-wide association analysis of salinity stress related traits in <i>Medicago truncatula</i>	15'
10:15	Karine Gallardo DR INRA, UMR Agroécologie	France	Interplay between sulphur nutrition and water stress tolerance in pea: a focus on seed development and composition	15'
10:30	Alejandra Covarrubias Academic, Instituto de Biotecnología-Universidad Nacional Autónoma de México	Mexico	Relevance of carbon distribution towards reproductive organs in the resistance to terminal drought of common bean cultivars	5' flash
10:35	Susan Moenga Graduate student, University of California-Davis	United States	Interspecific Cicer transcriptome divergence under drought stress	5' flash
10:40	Christine Lelandais-Briere Assistant Professor, IPS2 / Université Paris Diderot	France	A novel miRNA regulates root tolerance to cadmium in <i>Medicago truncatula</i> .	5' flash

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Session 10 – GENOME ENABLED BREEDING – 11:30am-13:00pm

Session chairs: Judith Burstin (INRA, France) & Tom Warkentin (University of Saskatchewan, Canada)

Time	Name	Country	Abstract Title	Talk
11 :30	Dr Soraya Leal-Bertioli Senior Research Scientist, University of Georgia	United States	KEYNOTE Genome enabled breeding of peanut	30'
12:00	Sukhjiwan Kaur Senior Research Scientist, Agriculture Victoria Research	Australia	Implementing Genomic Selection Assisted Breeding in Lentil and Field Pea	15'
12:15	Chris Ojiewo Senior Scientist, ICRISAT	Kenya	Delivering the genomics and genetics of resilient, high yielding and nutritious tropical legumes to smallholder farmers through efficient seed systems	15'
12:30	Kirstin Bett Professor, University of Saskatchewan	Canada	Adapting lentil to different environments	15'
12:45	Donal O'Sullivan Professor of Crop Science, University of Reading	United Kingdom	A genetic toolbox for <i>Vicia faba</i> improvement	5' flash
12:50	Tom Warkentin Professor, University of Saskatchewan	Canada	Genome wide association study of traits of economic importance in pea	5' flash
12 :55	Judith Lichtenzveig	Australia	Flexible and rapid gene introgression tailored to multiple legume species and genetic approaches	5' flash

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Session 11 - BIOTIC STRESS RESISTANCE – 14:30-16:10pm

Session chairs: Marie-Laure Pilet-Nayel (INRA, France) & Diego Rubiales (Institute for Sustainable Agriculture, CSIC, Spain)

Time	Speaker	Country	Title	Talk
14:30	Marie-Laure Pilet-Nayel Researcher, INRA	France	KEYNOTE Plant resistance and architecture for protection of pulses against biotic stresses	30'
15:00	Valérie Geffroy DR2, INRA	France	Genomic and epigenomic immunity in common bean: the unusual features of NB-LRR gene family	15'
15:15	Rebecca Ford Professor and Dean (research), Griffith University	Australia	Candidate genes for selective <i>Ascochyta lentis</i> resistance breeding in lentil	15'
15:30	Christophe Jacquet Professor, University of Toulouse	France	Crosstalk between symbiosis and immunity in <i>Medicago truncatula</i> .	15'
15:45	Estefania Carrillo-Perdomo Postdoc, INRA	France	Towards bruchid resistance in pulses	15'
16:00	Xinyi Wu Research Assistant, Zhejiang Academy of Agricultural Sciences	China	Fine mapping Ruv2, a new rust resistance gene in cowpea (<i>Vigna unguiculata</i>), to a 193-kb region enriched with NBS-type genes	5' flash
16:05	Diego Rubiales Professor, Institute for Sustainable Agriculture, CSIC	Spain	Pea breeding for pest and disease resistance with a focus on Mediterranean constraints	5' flash

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Poster List

Updated March 29, 2019

Deadline for abstract submission for poster presentation: April 9th, 2019

For more information, go to: <http://iclgg2019.com/call-for-abstracts/>

Session	Presenting author	Country	Abstract Title
2:Genomes	Barbara Hufnagel Postdoc, BPMP -CNRS	France	High quality genome sequence reveals important events during domestication of White Lupin
2:Genomes	Changyou Liu Associated professor, Institute of Cereal and Oil Crops, Hebei Academy of Agricultural and Forestry Sciences	China	Improvement of mungbean genome by Pacbio Sequel and Hi-C
2:Genomes	Marni Tausen Phd Student, Aarhus University	Denmark	Breaking free: the genomics of allopolyploidy-facilitated niche expansion in White Clover
2:Genomes	Pei Xu Professor, Zhejiang Academy of Agricultural Sciences	China	Leveraging new genomic resources to secure quality and climate-resilient vegetable cowpea breeding
2:Genomes	Jonathan Kreplak Study Engineer, INRA	France	A workflow to assemble plant mitochondrial genomes using long-reads: case study in Pisum sativum and Phaseolus vulgaris
2:Genomes	Tadesse Gela PhD Student, University of Saskatchewan	Canada	Patterns of genetic variation among sublines of the popular lentil variety 'CDC Maxim' developed through F2-derived family breeding method
2:Genomes	Lars Kamphuis CSIRO Agriculture & Food	Australia	Development of genomic resources for narrow-leafed lupin

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3:Functional Genomics	Rebecca Dickstein Professor, University of North Texas	United States	Forward genetics coupled with genome sequencing identifies genes essential for symbiotic nitrogen fixation in the <i>Medicago truncatula</i> Tnt1 population
3:Functional Genomics	Kamal Uddin PhD Student, The University of Sydney	Australia	Functional Characterization of a New Ammonium Transporter in Soybean
3:Functional Genomics	Christine Le Signor Research Engineer, INRA	France	Tilling resources in pea: a valuable tool for functional validation
3:Functional Genomics	Piotr Plewiński PhD Student, Institute of Plant Genetics, Polish Academy of Sciences	Poland	Phenotyping of yellow lupin (<i>Lupinus luteus</i>) germplasm collection and differential gene expression profiling in response to vernalization highlight candidate domestication genes for early flowering
3:Functional Genomics	Johan Quilbe PhD Atudent, IRD	France	Forward genetics in <i>Aeschynomene evenia</i> identifies genes of the Nod signaling pathway and a new Receptor-like Cytoplasmic Kinase that is specific to the Nod-independent symbiosis
4:Seeds	Na Liu Associate Research Scientist, Zhejiang Academy of Agricultural Sciences	China	Analyses of Vegetable and Grain Pea (<i>Pisum sativum</i> L.) Seed Development
4:Seeds	Rebecca Tacke PhD Student, Georg-August-Universität Göttingen	Germany	High-resolution map fragments from three bi-parental crosses to zoom into the genomic vicinity of a known major gene for very low vicine and convicine seed content in faba bean (<i>Vicia faba</i> L.).
4:Seeds	Cheol Woo Park PhD Student, Hokkaido University Plant Genetics and Evolution Lab	Japan	Quantitative trait loci analysis regulating seed α -tocopherol ratio in wild soybean
4:Seeds	Ahmed Warsame Student, University of Reading	United Kingdom	Identification of a candidate gene controlling hilum colour in faba bean
4:Seeds	Carol Henry Assistant Dean, Division of Nutrition and Dietetics, University of Saskatchewan	Canada	Genetic analysis and modification of pulse crops to enhance nutritional quality: a scoping review

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4:Seeds	Jose C. Jimenez-Lopez Senior Research Fellow - Ramon y Cajal Research Program, Spanish National Research Council (CSIC)	Spain	Developmental changes in storage proteins and redox metabolism of <i>Lupinus angustifolius</i> cotyledons as part of the signalling pathway responsible of the initiation and advance of seed germination
4:Seeds	Ana M. Torres Researcher, IFAPA	Spain	Genomic localization and candidate genes of <i>zt-2</i> , the second gene controlling zero tannin content in faba bean (<i>Vicia faba</i> L.)
4:Seeds	Kristin Bilyeu Research Molecular Biologist, USDA/ARS Plant Genetics Research Unit	United States	The Next Commodity Soybean
4:Seeds	Thi Thu Dang Postdoc, INRA	France	Regulation of PROGERIA1 (PRO1) genes and their targets in seed longevity in legume seeds
4:Seeds	Morgane Terezol Engineer, INRA -UMR Agroecology	France	Time-series RNA-seq analysis of pea seeds during development under control and drought conditions
4: Seeds	Carol Henry University of Saskatchewan	Canada	Iron Bioavailability of Soaked-cooked, Germinated-cooked and Fermented Dry Bean and Chickpea Measured Using the Caco-2 Cell Intestinal Absorption Model
4: Seeds	Saleh Hamed Institute of Agricultural Biology and Biotechnology- CNR	Italy	low phytic acid mutants: isolation of novel <i>Phaseolus vulgaris</i> lines and study of the regulation of auxin signalling in <i>Arabidopsis thaliana</i>
5:Legume Diversity	Roberto Papa Professor, Università Politecnica delle Marche	Italy	Bean Adapt: the genomics of adaptation during crop expansion of common bean
5:Legume Diversity	Timo Hellwig Ph.D. student, The Hebrew University of Jerusalem	Israel	Tapping the genetic resources of wild pea: Genetic response of <i>Pisum fulvum</i> to drought stress
5:Legume Diversity	Toby Newman Postdoctoral Research Fellow, Curtin University (Centre for Crop and Disease Management)	Australia	Exploiting wild germplasm to expand the genetic diversity and enhance the adaptive potential of domesticated chickpea
5:Legume Diversity	Candy Taylor	Australia	Identifying candidate genes for the <i>e1</i> mid-late flowering time locus in narrow-leafed lupin

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	PhD Student, The University of Western Australia		
5:Legume Diversity	Firouzeh Javadi Assistant professor, Kyushu University	Japan	Genomic insights into the distant wild relatives of chickpea
5:Legume Diversity	Rie Sadohara PhD student, Michigan State University, USA	United States	Genotypic diversity of the Yellow Bean Collection (<i>Phaseolus vulgaris</i> L.) assembled for consumer traits improvement
5:Legume Diversity	Karidiatou Traore Cowpea Breeder, Institut de l'Environnement et de Recherches Agricoles	Burkina Faso	Agro-morphophysiological characterization of cowpea varieties irradiated by gamma rays
5:Legume Diversity	Valentin Delefortrie Engineer, INRA	France	Genetic diversity of nodulated root structure in a very diverse pea collection
5:Legume Diversity	Lixia Wang Researcher on Vigna crops, Institute of Crop Sciences, CAAS	China	Genetic diversity assessment of a set of introduced mung bean accessions (<i>Vigna radiata</i> L.)
5:Legume Diversity	Virginia Wainaina Mwape PhD student, CURTIN UNIVERSITY	Australia	Phenotypic evaluation of <i>Sclerotinia sclerotiorum</i> resistance in wild <i>Cicer</i> germplasm under greenhouse conditions
5:Legume Diversity	Wohor Zakaria Osman Research student, CSIC-Institute for Sustainable Agriculture	Spain	Characterisation of a <i>Pisum</i> spp. Germplasm for Resistance to <i>Fusarium Oxysporium</i> and <i>Orobanche crenate</i> .
5:Legume Diversity	Barbara Pipan Associate research scientist, Agricultural Institute of Slovenia	Slovenia	Evaluation of common bean core collection established from West-Eastern European germplasm
5:Legume Diversity	Shivali Sharma Theme Leader- Pre-breeding, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)	India	Broadening the genetic base of grain legumes through pre-breeding using wild species
5:Legume Diversity	Susheel Sharma	India	Molecular characterization of germplasm and profiling of powdery mildew resistance gene at the <i>er1</i> locus in pea (<i>Pisum sativum</i> L.)

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	Assistant Professor, SK University of Agricultural Science and Technology- Jammu, J&K		
5:Legume Diversity	Tania Gioia Researcher, University of Basilicata	Italy	Lentils from South Italy: a source of genetic variation
5:Legume Diversity	Tae-Hwan Jun Associate professor, Pusan National University	Korea, Republic Of	Genetic diversity and population structure of peanut (<i>Arachis hypogaea</i> L.) accessions from Korean varieties and core collections from USDA
6: Plant Development	Cécilia Gallardo pHD, INRA, Biologie et Physiologie Moléculaire des Plantes	France	White lupin cluster root, a model to understand lateral root developmental adaptations
6: Plant Development	Ana Lucia Rodas Pre doctoral student, Intituto de Biología Molecular y Celular en Plantas IBMCP	Spain	Floral boundary genes in <i>Medicago Truncatula</i>
6: Plant Development	Jianghua Chen Group Leader, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences	China	Regulation of the compound leaf development by key repression complexes in <i>Medicago truncatula</i>
6: Plant Development	Shweta Kalve Post-Doctoral Researcher, University of Saskatchewan	Canada	QTL analysis for flowering time and photoperiod sensitivity in chickpea (<i>Cicer arietinum</i> L.)
6: Plant Development	Tamara Le Thanh PhD student, Biochemistry & Plant Molecular Physiology	France	Unravelling the gene network involved in the developmental switch of White Lupin rootlets
6: Plant Development	Antonella Longo Research Professor, BioDiscovery Institute	United States	Structural and functional evolution of the nitrate/peptide family (NPF) in legumes.
6: Plant Development	Didier Socquet-Juglard Postdoctoral Research Associate, University of Saskatchewan	Canada	Identification of a major QTL for shattering resistance common to three interspecific lentil populations

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6: Plant Development	Kangfu Yu Research Scientist, Research Scientist	Canada	GmHMA3 sequesters Cd to the root endoplasmic reticulum to limit translocation to the stems in soybean
6: Plant Development	Ana M Gonzalez Researcher, The Spanish National Research Council (CSIC)	Spain	Differential Expression Analysis of Meristematic Genes involved in Shoot Apical Growth and Flower Development of Common Bean
6: Plant Development	Marta Santalla Scientific Researcher, The Spanish National Research Council (CSIC). Misión Biológica de Galicia (MBG).	Spain	Genetic Analysis of Time to Flowering in Common Bean
7:Genomics for AE	Difo Voukang Harouna PhD Student, Nelson Mandela African Institution of Science and Technology (NM-AIST), Arusha-Tanzania	Tanzania, United Republic Of	Non- Domesticated Legumes (Vigna Species): Farmer's Perceptions, Preferences and Prospective Uses towards Human exploitation
7:Genomics for AE	Barbe Aurélien Assistant Engineer, INRA	France	Can LCO and mycorrhiza mitigate the impact of water deficit on pea growth in co-inoculations with rhizobium? A preliminary assessment
7:Genomics for AE	Dionysia Bi Agricultural Research Officer A, Agricultural Research Institute - ARI	Cyprus	A whole-plant field phenotyping method in cowpea to facilitate soil microbiome studies and the association with increased pod yield under abiotic stress conditions
8:Symbioses	Celine Mens PhD candidate, The University of Queensland	Australia	Characterisation of <i>Medicago truncatula</i> CLE34 and CLE35 in nitrate-dependent regulation of nodulation
8:Symbioses	Laura Perilla-Henao Graduate Student Researcher, University of California- Davis	United States	Symbiotic performance of chickpea wild relatives
8:Symbioses	Pascal Ratet DR2, IPS2 CNRS	France	Legume NODULE-ROOT-LIKE genes and symbiotic organ identity
8:Symbioses	Elhosseyn Aït Salem PhD student, IPS2	France	Hormones and immunity in <i>Medicago Truncatula</i> nodules
8:Symbioses	Weronika Czarnocka	Poland	SHORT-ROOT and SCARECROW are highly expressed in meristematic and infection zones of <i>Medicago truncatula</i> root nodules

Organisers



	Assistant Professor, Warsaw University Of Life Sciences		
8:Symbioses	Izabela Sańko-Sawczenko PhD student, Warsaw University of Life Sciences	Poland	Expression pattern of PIN genes in Lotus japonicus root nodules
8:Symbioses	Virginie Bourion Research Engineer, INRA	France	GRaSP project - Genetics of Rhizobia Selection by Pea
8:Symbioses	Raphael Boussageon PhD student, INRA	France	Phylogeny and gene expression analyses of ammonium transporters (AMT) induced by mycorrhization and nodule symbiosis among Papilionoideae subfamily
8:Symbioses	Alexandre Tromas Junior Group Leader, Centro De Ciencias Genomicas, UNAM	Mexico	Rho Data on Plant-Rhizobia symbiosis
8:Symbioses	Veronique Gruber Professor, IPS2 - University Paris Diderot	France	Defense vs senescence mechanisms in <i>Medicago truncatula</i>
8:Symbioses	Jennifer Wilker PhD Candidate, University of Guelph	Canada	Agronomic Performance and Nitrogen Fixation of Heirloom and Conventional Dry Bean Varieties Under Low-Nitrogen Field Conditions
8:Symbioses	Peter Kalo NARIC Agricultural Biotechnology Institute	Hungary	Comparative analysis of <i>Medicago truncatula</i> mutants deficient in NCR peptides essential for symbiotic nitrogen fixation
9:Abiotic Stress	Caspar Chater MSCA IF Global Fellow, University of Sheffield	Mexico	Improving legume Water Use Efficiency by exploiting Epidermal Patterning Factor signalling
9:Abiotic Stress	Karine Gallardo Co-leader of the FILEAS team, UMR Agroécologie	France	Interplay between sulphur nutrition and water stress tolerance in pea : a focus on seed development and composition
9:Abiotic Stress	Susan Moenga Graduate student, University of California-Davis	United States	Interspecific Cicer transcriptome divergence under drought stress
9:Abiotic Stress	Christine Lelandais-Briere	France	A novel miRNA regulates root tolerance to cadmium in <i>Medicago truncatula</i> .

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	Assistant professor, IPS2 / Université Paris Diderot		
9:Abiotic Stress	Zhijuan Chen PhD student, INRA-Research Institute of Horticulture and Seeds	France	Impacts of heat stress on Medicago seed maturation and seed quality
9:Abiotic Stress	Jan Drouaud Bioinformatics Engineer, INRA - UR AgrolImpact	France	Identification of genes underlying frost tolerance within a pea QTL
9:Abiotic Stress	Jose Die Postdoctoral Researcher, University of Cordoba	Spain	Molecular insights into the chickpea aldehyde dehydrogenase (ALDH) protein superfamily
9:Abiotic Stress	Mégane Couchoud PhD student, INRA - Agroecology	France	Transcriptomic and metabolomic responses of the pea nodulated pea root system during rewatering.
9:Abiotic Stress	Marion Prudent Research Scientist, INRA	France	Plant acclimation to high temperatures and water deficit: a comparative study determining independent and combined effects in four grain legume species
9:Abiotic Stress	Sergio Ochatt Chargé de Recherches, INRA Agroécologie Dijon	France	Nuclear migration: a marker for plant salinity resistance in vitro
9:Abiotic Stress	Nasser Bahrman Engineer, INRA	France	Workflow developed for RNAseq data analysis applied to pea cold-treated lines
9:Abiotic Stress	Kiflemariam Yehuala Belachew PhD Student, University of Helsinki	Finland	Using a root phenotyping platform to evaluate early drought response in <i>Vicia faba</i> L.
9:Abiotic Stress	Douae Ben Hdech PhD, Institut de Recherche en Horticulture et Semences (IRHS)	France	Phenotypic plasticity of seedling heterotrophic growth depending on nitrate supply in <i>Medicago truncatula</i>
9:Abiotic Stress	Mohsen Janmohammadi Faculty member (Associate Professor), Department of Plant Production and Genetics, Faculty of Agriculture, University of Maragheh	Iran, Islamic Republic Of	Impact of fertilizer management practices and soil tillage on productivity of chickpea

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9: Abiotic Stress	Aamir Saleem PhD Student, EV-Ilvo	Belgium	Soybean under drought stress: An outlook of multi-trait response
10: GE Breeding	Kirstin Bett Professor, University of Saskatchewan	Canada	
10: GE Breeding	Maria Skrabisova Assistant Professor, Palacky University in Olomouc	Czech Republic	SNPViz 2.0: A web-based haplotype viewer for GWAS driven identification of causative genes
10: GE Breeding	Gregoire Aubert Research assistant, INRA Agroecologie	France	High-density genotyping of pea and faba bean diversity panels using exome capture
10: GE Breeding	Judith Burstin Director of Research, INRA	France	The Pea genome and after
10: GE Breeding	Amit Deokar Postdoctoral fellow (PDF), University of Saskatchewan, Canada	Canada	Development of 60K single nucleotide polymorphism (SNP) chip for accelerating genetic studies and genomic-enabling chickpea breeding
10: GE Breeding	Chrystel Deulvot Assistant engineer "Research and Varietal Innovation - Faba bean", INRA	France	LAGoPEDE, a French breeding project to develop frost tolerant and FEVITA® faba bean varieties
10: GE Breeding	Kifah Gharzeddin Postdoctoral Researcher, McGill University	Canada	Efficiency of different breeding methods in developing high yielding lines of faba bean (<i>Vicia faba</i> L.)
10: GE Breeding	Natalia Gutierrez Genetic breeders, IFAPA-CENTRO ALAMEDA DEL OBISPO	Spain	Saturation of QTL intervals determining resistance to <i>Orobanche crenata</i> and <i>Ascochyta fabae</i> resistance in <i>Vicia faba</i> L.
10: GE Breeding	Anthony Klein Assistant engineer in pea breeding, INRA Dijon	France	Complementary approaches towards the discovery of genes controlling yield in pea
10: GE Breeding	Simon Michelmore Senior Research Officer, SARDI	Australia	Developing molecular markers for herbicide tolerance traits for the Australian pulse industry

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10: GE Breeding	Amandine Remy Project manager, INRA	France	Pea MULTI-STress adaptation and biological regulations for yield improvement and stability
10: GE Breeding	Garry Rosewarne Senior Research Scientist, Agriculture Victoria	Australia	Selection Index Development to Direct Genomic Selection Strategies in the Australian Field Pea Breeding Program
10: GE Breeding	Delphine Steinbach Head of ABI-SOFT software development group, INRA GQE-Le Moulon	France	ThaliaDB V3, a cross-cutting Web Tool for Plant Breeding Data management and Genetic Data Diversity Exploration
10: GE Breeding	Vasiliki Tagkouli PhD student, University of Reading	United Kingdom	Recurrent selection: A promising breeding method for Irish faba beans
10: GE Breeding	Deepti Angra Post doctoral Research Fellow, University of Reading	United Kingdom	Large scale SNP discovery and construction of High Density Linkage Map using a <i>Vicia faba</i> 50k Axiom SNP array
10: GE Breeding	Yang Xiaoming Legumes breeding, Crop Institute, Academy of Gansu Agriculture Science	China	Identification of Powdery Mildew Resistance Gene in Pea Line X9002
10: GE Breeding	Janila Pasupuleti International Crops Research Institute for the Semi-Arid Tropics	India	Genomics-enabled early generation selection in peanut breeding pipeline.
10: GE Breeding	Swathi Gattu ICRISAT	India	Validation of Single Nucleotide Polymorphic Markers for rust and late leaf spot Disease Resistance and High Oleic Trait in peanut
10: GE Breeding	Nonoy Bandillo North Dakota State University	United States	Opportunities and strategies for integration of molecular markers into an applied pulse crop breeding program
10: GE Breeding	Yong-Qiang Charles USDA-ARS Plant Genetics Research Unit	United States	Integration of structural and functional genomics and genetics for soybean seed quality improvement
10: GE Breeding	Magnus Karlsson Swedish University of Agricultural Sciences	Sweden	Transcriptional immune responses in pea towards the oomycete pathogens <i>Aphanomyces euteiches</i> and <i>Phytophthora pisi</i>

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11: Biotic Stress	Valerie Geffroy DR2, INRA	France	High CO2 levels and high temperatures impact viral infection/resistance in <i>Phaseolus vulgaris</i>
11: Biotic Stress	Sara Blake Senior Research Officer, South Australian Research & Development Institute (SARDI)	Australia	Inheritance of virulence in the pathogens causing Ascochyta blight on lentils and faba beans
11: Biotic Stress	Patricia Castro Postdoctoral researcher, University of Cordoba	Spain	Gene expression studies for fusarium wilt race 5 in chickpea
11: Biotic Stress	Michal Ksiazkiewicz Assistant professor, Institute of Plant Genetics, Polish Academy of Sciences	Poland	Exploring the molecular mechanisms underlying the resistance of narrow-leaved lupin (<i>Lupinus angustifolius</i>) to Phomopsis stem blight disease caused by the pathogenic fungus <i>Diaporthe toxica</i>
11: Biotic Stress	Clarice Coyne Geneticist, U.S. Department of Agriculture	United States	Deciphering the Genetic Architecture of Aphanomyces Root Rot Resistance in Lentil via Genome-Wide Association Analysis
11: Biotic Stress	Sarra Aouzal PHD student in Phytopathology at INRA, University Hassan 1 - Settat	Morocco	Phenotypic diversity of Botrytis spp. populations and identification of resistance sources from landraces of faba bean in Morocco
11: Biotic Stress	Gilles Boutet Scientist, INRA	France	Identification of regions in the pea genome controlling both stress resistance and developmental traits
11: Biotic Stress	Xuzhen Cheng Researcher on Vigna crops, Institute of Crop Sciences, CAAS	China	Construction of an integrated map and location of a <i>Bruchid bruchid</i> resistance gene in mung bean
11: Biotic Stress	Nadim Tayeh Research scientist, INRA, Institut National de la Recherche Agronomique	France	RésiLens: A research project aiming at identifying bruchid and root rot resistance sources in lentil (<i>Lens culinaris</i>)
11: Biotic Stress	Thomas Wood Project Leader, NIAB	United Kingdom	Identification of QTL conferring partial resistance to downy mildew on faba bean (<i>Vicia faba</i>)
11: Biotic Stress	Prameela Mohapatra Research student, University of Queensland	Australia	Identification of host-plant resistance to <i>Helicoverpa armigera</i> in Australian wild Cajanus species

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11: Biotic Stress

Yingdong Bi
Heilongjiang Academy of
Agricultural Sciences

China

Genetic architecture of Pythium root rot resistance in soybean as inferred from genome-wide association mapping

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