



5th International Legume Society Conference

PROGRAMME



8-12th June 2026, Dubrovnik, Croatia

**International Legume Society
and
University of Zagreb Faculty of Agriculture**

under the auspices of

Ministry of Agriculture, Forestry and Fishery
and
Ministry of Science, Education and Youth

in collaboration with

Academy of Agricultural Sciences
Centre of Excellence for Biodiversity and Molecular Plant Breeding
Croatian National Tourist Board
Crop Trust
Fernand Lambien Fund

ORGANIZE



5th International Legume Society Conference

8 – 12 June 2026, Dubrovnik, Croatia

The organizers acknowledge the support of the following
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ILS5

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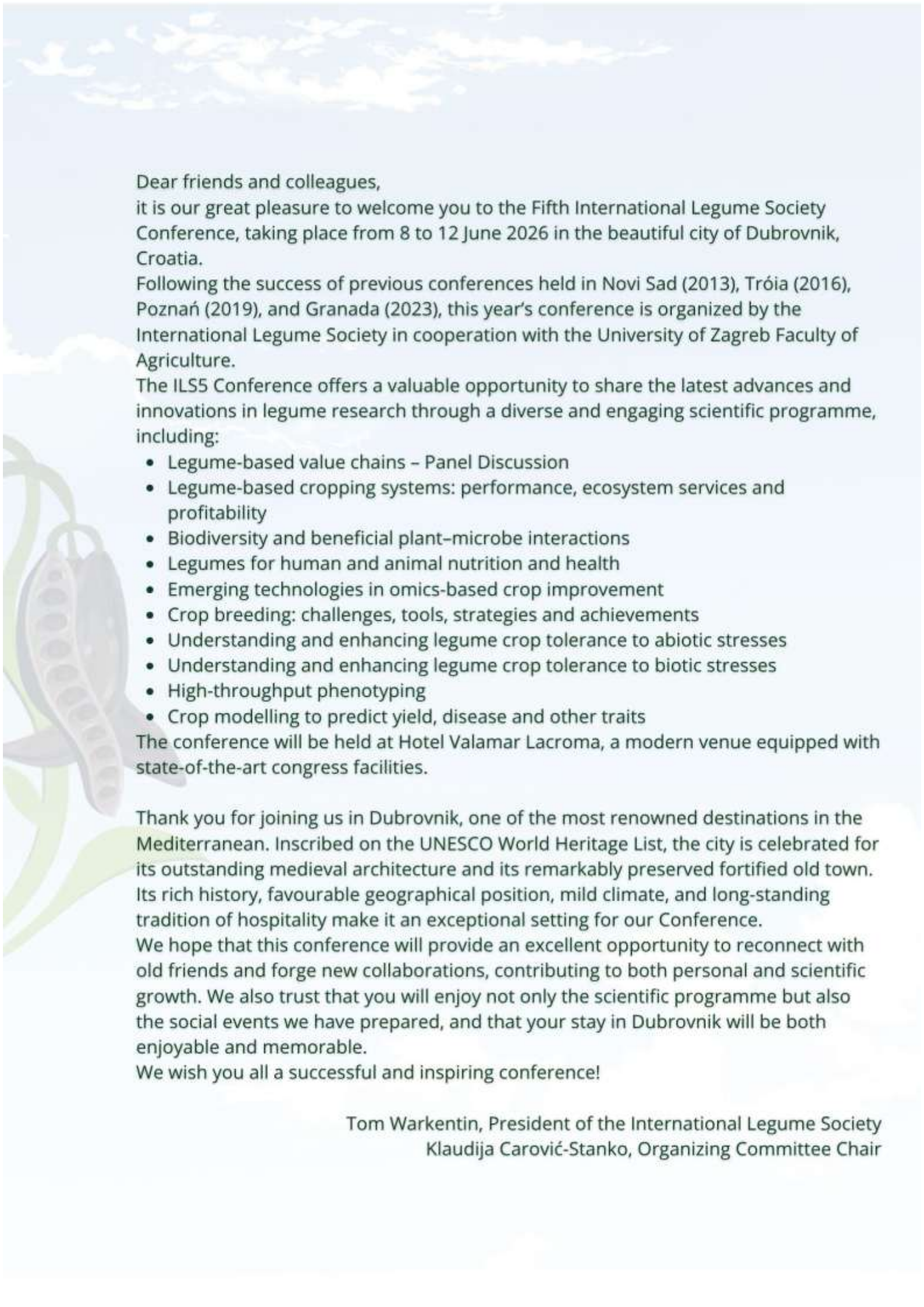
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Dear friends and colleagues,

it is our great pleasure to welcome you to the Fifth International Legume Society Conference, taking place from 8 to 12 June 2026 in the beautiful city of Dubrovnik, Croatia.

Following the success of previous conferences held in Novi Sad (2013), Tróia (2016), Poznań (2019), and Granada (2023), this year's conference is organized by the International Legume Society in cooperation with the University of Zagreb Faculty of Agriculture.

The ILS5 Conference offers a valuable opportunity to share the latest advances and innovations in legume research through a diverse and engaging scientific programme, including:

- Legume-based value chains – Panel Discussion
- Legume-based cropping systems: performance, ecosystem services and profitability
- Biodiversity and beneficial plant-microbe interactions
- Legumes for human and animal nutrition and health
- Emerging technologies in omics-based crop improvement
- Crop breeding: challenges, tools, strategies and achievements
- Understanding and enhancing legume crop tolerance to abiotic stresses
- Understanding and enhancing legume crop tolerance to biotic stresses
- High-throughput phenotyping
- Crop modelling to predict yield, disease and other traits

The conference will be held at Hotel Valamar Lacroma, a modern venue equipped with state-of-the-art congress facilities.

Thank you for joining us in Dubrovnik, one of the most renowned destinations in the Mediterranean. Inscribed on the UNESCO World Heritage List, the city is celebrated for its outstanding medieval architecture and its remarkably preserved fortified old town. Its rich history, favourable geographical position, mild climate, and long-standing tradition of hospitality make it an exceptional setting for our Conference.

We hope that this conference will provide an excellent opportunity to reconnect with old friends and forge new collaborations, contributing to both personal and scientific growth. We also trust that you will enjoy not only the scientific programme but also the social events we have prepared, and that your stay in Dubrovnik will be both enjoyable and memorable.

We wish you all a successful and inspiring conference!

Tom Warkentin, President of the International Legume Society
Klaudija Carović-Stanko, Organizing Committee Chair

8 June 2026 (Monday)

8:00 – 17:30	Registration of Participants
	Pre-Symposium Workshops  (prior registration required)
8:30 – 13:30	High-Throughput Phenotyping: a Platform to Accelerate Legume Crop Improvement 
8:45 – 13:30	10 th International Legume Root Diseases 
9:00 – 16:30	2 nd Lathyrus Day 
10:30 – 11:00	Coffee Break 
13:30 – 14:30	Lunch 
14:30 – 15:30	CoE CroP-BioDiv Lecture
14:30 – 17:00	EU Projects to Enhance Diversity, Resilience and Competitiveness of Legumes 
17:30 – 18:00	Opening Ceremony
18:00 – 19:30	S1: Legume-Based Value Chains – Panel Discussion & Poster Viewing 
19:30 – 20:30	Welcome Reception – sponsored by Fernand Lambein Fund

9 June 2026 (Tuesday)

8:30 – 15:00	Registration of Participants
9:00 – 10:45	S2: Legume-Based Cropping Systems: Performance, Ecosystem Services and Profitability
10:45 – 11:15	Coffee Break  & Poster Viewing (S2, S3, S4) 
11:15 – 13:00	S3: Biodiversity and Beneficial Plant-Microbe Interactions
13:00 – 14:00	Lunch 
14:00 – 15:45	S4: Legumes for Human and Animal Nutrition and Health
15:45 – 16:30	Coffee Break  & Poster Viewing (S2, S3, S4) 
20:00 – 22:00	Football Cup 

10 June 2026 (Wednesday)	
8:30 – 15:00	Registration of Participants
9:00 – 10:45	S5: Emerging Technologies in Omics-Based Crop Improvement
10:45 – 11:15	Coffee Break ☕ & Poster Viewing (S5, S6) 🏠
11:15 – 13:00	S6: Crop Breeding: Challenges, Tools, Strategies and Achievements 1st Part
13:00 – 14:00	Lunch 🍽️
14:00 – 15:15	S6: Crop Breeding: Challenges, Tools, Strategies and Achievements 2nd Part
15:15 – 16:00	Coffee Break ☕ & Poster Viewing (S5, S6) 🏠
20:00	Gala Dinner 🍽️

11 June 2026 (Thursday)	
8:30 – 12:00	Registration of Participants
9:00 – 10:45	S7: Understanding and Enhancing Legume Crop Tolerance to Abiotic Stresses 1st Part
10:45 – 11:15	Coffee Break ☕ & Poster Viewing (S7, S8) 🏠
11:15 – 12:00	S7: Understanding and Enhancing Legume Crop Tolerance to Abiotic Stresses 2nd Part
12:00 – 12:45	Sponsors and Partners
13:00 – 14:00	Lunch 🍽️
14:00 – 15:45	S8: Understanding and Enhancing Legume Crop Tolerance to Biotic Stresses
15:45 – 16:30	Coffee Break ☕ & Poster Viewing (S7, S8) 🏠
16:30 – 17:30	ILS General Assembly
17:30 – 18:00	New ILS Scientific Committee Meeting

12 June 2026 (Friday)	
9:00 – 11:20	S9:High-Throughput Phenotyping & S10:Crop Modelling to Predict Yield, Disease and Other Traits
11:20 – 11:40	Coffee Break ☕ & Poster Viewing (S9, S10) 🏠
11:40 – 12:00	Closing Remarks and Awards 🏆
12:30 – 19:00	Excursion to Šipan 🗝
17:00 –18:30	Walking Tour 🗝

MONDAY – 8 JUNE 2026

8:00-17:30	Registration of Participants	
	Pre-Symposium Workshops 📌 (prior registration required)	
8:30-13:30	High-Throughput Phenotyping: a Platform to Accelerate Legume Crop Improvement	Bokar Hall
8:45-13:30	10 th International Legume Root Diseases (ILRD10)	Elafiti Hall 2
9:00-16:30	2 nd Lathyrus Day	Elafiti Hall 3 and 4
10:30-11:00	Coffee Break ☕	
13:30-14:30	Lunch 🍽️	Hotel Valamar Lacroma Restaurant
14:30-15:30	Centre of Excellence for Biodiversity and Molecular Plant Breeding (CoE CroP-BioDiv) Lecture Carlos Iglesias: Plant biodiversity for rural development: sharing NC State experience	Bokar Hall
14:30-17:00	EU Projects to Enhance Diversity, Resilience and Competitiveness of Legumes	Elafiti Hall 2
17:30-18:00	Opening Ceremony	Elafiti Hall 3 and 4
18:00-19:30	S1: LEGUME-BASED VALUE CHAINS – Panel Discussion & Poster Viewing 📄	Panel Moderator: David Gouache Panelists: Marta Vasconcelos, Francisco Castro Alves, Sherrilyn Phelps and Aurélie Tournan
19:30-20:30	Welcome Reception sponsored by Fernand Lambein Fund	the terrace at Hotel Valamar Lacroma

TUESDAY – 9 JUNE 2026

8:30-15:00	Registration of Participants	
	S2: LEGUME-BASED CROPPING SYSTEMS: PERFORMANCE, ECOSYSTEM SERVICES AND PROFITABILITY	
	Elafiti Hall 3 and 4	
	<i>Chairpersons:</i>	Pietro Iannetta and Karen Cichy
	<i>Invited speaker</i>	
9:00-9:30	Thomas Wilkinson (Senior Crop Research Consultant, Sustainable Agricultural Systems, RSK ADAS Ltd., UK)	INTEGRATING LEGUME ECOSYSTEM SERVICE MONITORING INTO GOOD AGRICULTURAL PRACTICE
	Oral presentations	
9:30-9:45	Sherrilyn Phelps	PULSE REPLICATED ON-FARM INDEPENDENT TRIALS (PROFIT) PROGRAM IN SASKATCHEWAN, CANADA
9:45-10:00	Balázs Bálint	CO DESIGNING A SERIOUS GAME TO EXPLORE LEGUME SYSTEM TRADE OFFS: USING NARRATIVE DILEMMAS TO SUPPORT INTEGRATED DECISION MAKING
10:00-10:15	Rafael D.C. Duarte	BEYOND NITROGEN: THE MULTIFUNCTIONAL PROVISIONS OF PULSE NON-NUTRITIONALS FOR 'ONE HEALTH'
	Flash presentations	
10:15-10:19	Lee Hickey	HARNESSING THE POWER OF PULSES: BREEDING FOR A FARMING SYSTEM TO IMPROVE SUSTAINABILITY

10:19-10:23	Alejandro del Pozo	LEGUMES IN MEDITERRANEAN AGROECOSYSTEMS: LESSONS FROM FOUR DECADES OF RESEARCH IN CHILE
10:23-10:27	Juliana Trindade Martins	AGRONOMIC PERFORMANCE OF NON-TRADITIONAL GRAIN LEGUMES IN DENMARK
10:27-10:31	Pieter Swanepoel	TRANSFORMING SOUTH AFRICAN AGRICULTURE: THE RISE OF SOYBEANS AS A CATALYST FOR SUSTAINABLE PRODUCTION SYSTEMS
10:31-10:35	Katri Joensuu	HOW DOES INTRODUCING LEGUMES TO EUROPEAN CROP SEQUENCES AFFECT ENVIRONMENTAL IMPACTS AND ECOSYSTEM SERVICES: RESULTS FROM A LIFE CYCLE ASSESSMENT STUDY
10:35-10:39	Emily Guest	CLIMATE-SMART NITROGEN MANAGEMENT: SENSOR-BASED INSIGHTS INTO LEGUME-BASED CROP ROTATIONS
10:39-10:43	Philippa von Nathusius	DOES MIXED CROPPING OF LUPINS WITH CEREALS IMPROVE YIELD STABILITY AND CROP PERFORMANCE BY FOSTERING ECOSYSTEM SERVICES SUCH AS WEED AND PEST SUPPRESSION?
10:45-11:15	Coffee Break (Sponsored by Crop Trust) ☕ & Poster Viewing (S2, S3, S4) 🏛️ Elafiti Hall 1	
S3: BIODIVERSITY AND BENEFICIAL PLANT-MICROBE INTERACTIONS		
Elafiti Hall 3 and 4		
	<i>Chairpersons</i>	Jagroop Kahlon and Lars Kamphuis
	<i>Invited speaker</i>	
11:15-11:45	Elena Bitocchi (Associate Professor at Department of Agricultural, Food and Environmental Sciences, Polytechnic University of Marche, Italy)	FROM WILD TO CULTIVATED: HOW PLANTS AND MICROBES EVOLVE TOGETHER
	Oral presentations	
11:45-12:00	Petr Smýkal	CONVERGENT AND PARALLEL EVOLUTION SHAPE SEED DORMANCY AND POD DEHISCENCE DURING LEGUME DOMESTICATION
12:00-12:15	Chandrodhay Saccaram	SEEDS AS ECOSYSTEM ENGINEERS: METABOLOMIC PROGRAMMING OF SPERMOSPHERE MICROBIAL ASSEMBLY AND EARLY-LIFE RESILIENCE IN COMMON BEAN
12:15-12:30	Juan M Osorno	SEARCHING FOR THE NEXT RHIZOBIUM SUPERSTAR USING HIGH-THROUGHPUT SCREENING APPROACHES
	Flash presentations	
12:30-12:34	Matt Denton	PHENOTYPIC PLASTICITY FOR THE RECRUITMENT OF SOIL MICROBIOMES IN THE CHICKPEA RHIZOSPHERE AND NODULE
12:34-12:38	Salma Halime	COMPARATIVE METABOLOMIC PROFILING OF LUPINUS ALBUS AND L. ANGUSTIFOLIUS HARVEST RESIDUES: EXPLORING CHEMICAL DIVERSITY AND VALORIZATION POTENTIAL
12:38-12:42	Will Shaffer	HARNESSING GENOMIC DIVERSITY AND HOST-RHIZOBIA SYMBIOSIS TO ENHANCE SYMBIOTIC NITROGEN FIXATION IN CHICKPEA
12:42-12:46	S.U. Attanayake	OPTIMIZING BEAN INOCULANTS FOR CANADIAN VARIETIES: ENHANCING BIOLOGICAL NITROGEN FIXATION IN COMMON BEANS
12:46-12:50	Grace Weston-Oliver	QUANTIFYING NITROGEN FIXATION IN LEGUMES USING CRISPR-DERIVED NON-NODULATING MUTANTS
12:50-12:54	Gaetano Giudice	DUAL ROLES OF PEA CCD7 IN STRIGOLACTONE-DEPENDENT AND -INDEPENDENT PROCESSES AS REVEALED BY TRANSCRIPTOMIC PROFILING AND MYCORRHIZATION ASSAYS
12:54-12:58	Helen Wilkinson	MATCHMAKING: UNVEILING OPTIMAL SOYBEAN-RHIZOBIA MATCHES IN NORTH-WESTERN
13:00-14:00	Lunch 🍽️	

S4: LEGUMES FOR HUMAN AND ANIMAL NUTRITION AND HEALTH

Elafiti Hall 3 and 4

	<i>Chairpersons:</i>	Alfonso Clemente and Kristina Kljak
	<i>Invited speaker</i>	
14:00-14:30	Maria Carlota Vaz Patto (Principal Investigator at the Instituto de Tecnologia Química e Biológica António Xavier (ITQB NOVA), Portugal)	CAN WE HAVE IT ALL? NUTRITIONAL QUALITY IN RESILIENT LEGUMES AND THE TRADE-OFFS WE DIDN'T SEE COMING
	<i>Oral presentations</i>	
14:30-14:45	Tom Warkentin	ELEVATING THE ROLE OF PEA IN PLANT-BASED FOODS USING BREEDING, GENOMICS, AND FOOD SCIENCE APPROACHES
14:45-15:00	Vanessa Vernoud	EXPLOITING LIPOXYGENASE KNOCKOUT PEA LINES TO REDUCE PROTEIN OFF-FLAVORS
15:00-15:15	Katarzyna Czepiel	MULTI-OMICS PERSPECTIVE ON ALKALOID PATHWAY ARCHITECTURE IN NARROW-LEAFED LUPIN
	<i>Flash presentations</i>	
15:15-15:19	Pedro Maldonado-Alvarado	FUNCTIONAL PROPERTIES ASSESSMENT OF A MINI-PIZZA MADE FROM MODIFIED CASSAVA STARCH IN PARTIAL SUBSTITUTION WITH LUPIN FLOUR
15:19-15:23	Samson Ugwuanyi	DEVELOPMENTAL STAGE-DEPENDENT GENE EXPRESSION MODULATES MATERNAL CONTROL OF SEED VICINE BIOSYNTHESIS IN FABA BEAN
15:23-15:27	Rind Balech	PHENOTYPIC AND NUTRITIONAL EVALUATION OF GRASS PEA ACCESSIONS FOR LOW METHANE EMISSIONS AND HIGH FORAGE QUALITY
15:27-15:31	Umesh K. Tanwar	SEED SIZE VARIATION AND CHARACTERIZATION IN <i>LUPINUS ALBUS</i>
15:31-15:35	Karen Cichy	EARLY SEEDLING VIGOR AND END-USE QUALITY ASSOCIATIONS IN DRY BEAN
15:35-15:39	Anabela Raymundo	ENHANCING LABLAB BEAN FLAVOR USING SUPERCRITICAL CO ₂ EXTRACTION FOR SUSTAINABLE FOOD SYSTEMS
15:39-15:43	Isabel Sousa	PULSE-DERIVED BEVERAGES AS HIGH-PROTEIN DAIRY ALTERNATIVES: NUTRITIONAL AND FUNCTIONAL ASSESSMENT
15:45-16:30	Coffee Break Sponsored by Crop Trust ☕ & Poster Viewing (S2, S3, S4) 🎨	
20:00-22:30	Football Cup ⚽	the bus leaves at the 19:30 from the parking area in front of the entrance to Hotel Valamar Lacroma; kindly bring your voucher

WEDNESDAY – 10 JUNE 2026

8:30-15:00 | Registration of Participants

S5: EMERGING TECHNOLOGIES IN OMICS-BASED CROP IMPROVEMENT

Elafiti Hall 3 and 4

	<i>Chairpersons</i>	Nadim Tayeh and Alma Balestrazzi
	<i>Invited speaker</i>	
9:00-9:30	Grégoire Aubert (INRAEe Research engineer,	DEVELOPMENT OF GENOMIC RESOURCES AND GENOTYPING TOOLS TO BOOST BREEDING IN LEGUME CROPS

	INRAE Agroecology, Dijon, France)	
	Oral presentations	
9:30-9:45	Noam Chayut	FROM MENDEL'S PEAS TO GLOBAL CROP DIVERSIFICATION: THE ROLE OF GENE BANK-OMICS
9:45-10:00	Hyeonah Shim	THE FABA BEAN PANGENOME
10:00-10:15	Kirstin Bett	REPEATS AND REARRANGEMENTS IN <i>LENS</i> SPP. GENOMES HAVE IMPLICATIONS FOR BREEDING
	Flash presentations	
10:15-10:19	Mohsen Yoosefzadeh Najafabadi	NEXT GENERATION DECISION SUPPORT FOR LEGUME BREEDING THROUGH DOMAIN-SPECIFIC ARTIFICIAL INTELLIGENCE
10:19-10:23	Giacomo Conti	UNCOVERING ADAPTIVE TRAITS IN LEGUMES THROUGH NOVEL GENOTYPING APPROACHES
10:23-10:27	Massimiliano Corso	DIVERSITY AND GENETIC CONTROL OF SPECIALIZED METABOLITES SHAPING STRESS DEFENCE AND QUALITY IN PEA SEEDS
10:27-10:31	Lovenpreet Kaur	GENETIC AND MOLECULAR APPROACHES TO MODULATE B-ODAP BIOSYNTHESIS IN <i>LATHYRUS SATIVUS</i>
10:31-10:35	Dario Paolo	CRISPR/CAS9 EDITING OF GMSULTR3;3 REVEALS A NOVEL STRATEGY TO MODULATE PHYTIC ACID ACCUMULATION IN SOYBEAN
10:35-10:39	Juan M Osorno	FROM GENOMICS TOOLS TO VARIETIES: A CUSTOM GENOMIC SELECTION FRAMEWORK TO DEVELOP SUPERIOR DRY BEAN VARIETIES WITH SPECIFIC ADAPTATION
10:39-10:43	Ravinder Goyal	NUCLEAR AND TOTAL PROTEOMIC ANALYSES OF TENDRILS IN TWO PEA (<i>PISUM SATIVUM</i> L.) CULTIVARS REVEAL DISTINCT REGULATORY PROGRAMS UNDERLYING CONTRASTING PHENOTYPES
10:45-11:15	Coffee Break (Sponsored by MDPI) ☕ & Poster Viewing (S5, S6) 🏢 Elafiti Hall 1	
S6: CROP BREEDING: CHALLENGES, TOOLS, STRATEGIES AND ACHIEVEMENTS 1ST PART		
Elafiti Hall 3 and 4		
	Chairpersons	Peter Smykal and Bernadette Julier
	Invited speaker	
11:15-11:45	Paolo Annicchiarico (Director of Research, Research Centre for Animal Production and Aquaculture, Council for Agricultural Research and Economics (CREA), Lodi, Italy)	LEGUME BREEDING SUPPORTED AND INSPIRED BY BLACK BOX AGROECOLOGICAL AND GENOMIC APPROACHES
	Oral presentations	
11:45-12:00	Caitlin Dudley	DISSECTING GENETIC AND ENVIRONMENTAL REGULATION OF FLOWERING TO ENABLE CLIMATE-RESILIENT MUNGBEAN BREEDING
12:00-12:15	Victor Papin	HARNESSING HAPLOTYPE DIVERSITY AND AI-DRIVEN GENOMICS TO ACCELERATE SUSTAINABLE GENETIC GAIN IN CHICKPEA
12:15-12:30	François Belzile	RAPID AND IN-DEPTH GENOTYPING OF BOTH SNPS AND SVS ALLOWS CALLING OF ALLELES AT FOUR E GENES, KEY DETERMINANTS OF MATURITY IN SOYBEAN (<i>GLYCINE MAX</i>), VIA AMPLICON SEQUENCING
12:30-12:45	David Gouache	PEA4EVER, A MASSIVE INVESTMENT PROGRAM TO RECLAIM COMPETITIVENESS OF THE PEA CROP THROUGH ACCELERATED BREEDING FOR YIELD POTENTIAL AND STABILITY
12:45-13:00	Bernadette Julier	EXPLORING WORLDWIDE GENETIC DIVERSITY IN WILD AND CULTIVATED <i>MEDICAGO SATIVA</i> : A RESOURCE FOR BREEDING

13:00-14:00	Lunch 🍽️	
S6: CROP BREEDING: CHALLENGES, TOOLS, STRATEGIES AND ACHIEVEMENTS 2ND PART Elafiti Hall 3 and 4		
	<i>Chairpersons</i>	Jenn Walker and Ashild Ergon
	Oral presentations	
14:00-14:15	Peter Emmrich	A GENOMIC TOOLBOX FOR IMPROVING GRASSPEA
	Flash presentations	
14:15-14:19	Babu Pandey	DEVELOPMENT OF HIGH YIELDING IMIDAZOLINONE HERBICIDES TOLERANT FIELD PEAS FOR SOUTHERN AUSTRALIA
14:19-14:23	Tamanna Jahan	HARNESSING THE GENETIC BASIS OF PHOSPHOROUS UTILIZATION EFFICIENCY AND ROOT TRAITS IN AN INTERSPECIFIC CHICKPEA POPULATION
14:23-14:27	Krishan Shah	LESSONS LEARNT FROM SAFLUFENACIL (HRAC: GROUP 14) HERBICIDE TOLERANCE SCREENINGS IN LENTILS: A CASE STUDY FROM THE UOFS LENTIL BREEDING PROGRAM
14:27-14:31	Salvador Osuna-Caballero	BREEDING FOR SYNERGY: ESTIMATION OF A LEGACY VALUE IN A LENTIL-WHEAT ROTATION TRIAL
14:31-14:35	Hélène Marrou	FROM WILD TO CULTIVATED: DOMESTICATION RESHAPED FUNCTIONAL DIVERSITY IN VIGNA GENUS
14:35-14:39	Nadim Tayeh	THE ORTHO_KB KNOWLEDGE GRAPH, AN INNOVATIVE TOOL FOR BOOSTING TRANSLATIONAL APPROACHES AND THEIR APPLICATIONS FOR CROP IMPROVEMENT - DEMONSTRATION WITH THE INSTANCE DEDICATED TO LEGUMES, ORTHOLEGKB
14:39-14:43	Ashwini Mudke	NONADDITIVE GENE EXPRESSION IMPACTS HETEROSIS IN SYNTHETIC FABA BEAN CULTIVARS
14:43-14:47	Md Mamunur Rashid	A REPRODUCIBLE TISSUE CULTURE AND TRANSFORMATION PROTOCOL FOR FABA BEAN (<i>VICIA FABA</i> L.) ACROSS DIVERSE GENOTYPES
14:47-14:51	Amanda Karlström	HARNESSING HETEROSIS: SIMULATION-BASED EXPLORATION OF FABA BEAN BREEDING STRATEGIES
14:51-14:55	Stefano Pavan	GENOME WIDE ASSOCIATION STUDY IN A GLOBAL COLLECTION OF LENTIL (<i>LENS CULINARIS</i>)
14:55-14:59	Vuk Djordjevic	BEYOND PREDICTION: UNCOVERING YIELD-FORMING STRATEGIES THROUGH INTEGRATED DATA IN SOYBEAN
14:59-15:03	Mairi Franklin	DEVELOPING VIRUS-INDUCED GENOME EDITING (VIGE) FOR GRASSPEA AND PEA
15:03-15:07	Michał Książkiewicz	DEVELOPMENT OF LINKAGE MAPS FOR NARROW-LEAFED LUPIN MAPPING POPULATIONS EMIR×LAE-1 AND GRAF×AU, AND QTL MAPPING OF FLOWERING TIME, MATURITY, PLANT HEIGHT, YIELD, AND THOUSAND GRAIN WEIGHT
15:07-15:11	Cecilia Hammenhag	DIVERSITY AS INFRASTRUCTURE: INTEGRATING GENETIC VARIATION INTO MODERN PULSE BREEDING
15:15-16:00	Coffee Break (Sponsored by MDPI) ☕ & Poster Viewing (S5, S6) 🏠 Elafiti Hall 1	
20:00	Gala Dinner 🍽️	Elafiti Hall at Hotel Valamar Lacroma; kindly bring your voucher and present it to the waiter

THURSDAY – 11 JUNE 2026

8:30-12:00	Registration of Participants	
S7: UNDERSTANDING AND ENHANCING LEGUME CROP TOLERANCE TO ABIOTIC STRESSES 1ST PART		
Elafiti Hall 3 and 4		
	<i>Chairpersons</i>	Pei Xu and Boris Lazarević
	<i>Invited speaker</i>	
9:00-9:30	Marion Prudent (Director of Research at INRAE Dijon, France)	OPTIMISING PLANT-MICROORGANISM INTERACTIONS TO IMPROVE LEGUME RESILIENCE TO ABIOTIC STRESS
	Oral presentations	
9:30-9:45	Callum Jamie	LEVERAGING MULTI-ENVIRONMENT TRIALS AND HAPLOTYPE ANALYSIS TO DELIVER GENOMIC TARGETS FOR HEAT-TOLERANT CHICKPEA
9:45-10:00	Bunyamin Taran	DISSECTING THE GENETIC AND PHYSIOLOGICAL COMPONENTS OF HEAT TOLERANCE IN CHICKPEA
10:00-10:15	Susana Leitão	BREEDING FABA BEAN FOR RESILIENCE: GENOMIC AND PHYSIOLOGICAL INSIGHTS INTO DROUGHT RESILIENCE
10:15-10:30	Federico Martinelli	A MULTI-OMICS STUDY OF CHICKPEA'S INTERGENERATIONAL ADAPTIVE STRATEGIES UNDER DROUGHT STRESS
10:30-10:45	Camille Branchereau	ECOPHYSIOLOGICAL AND GENETIC ANALYSIS OF ROOT PLASTICITY IN RESPONSE TO WATER DEFICIT IN PEA
10:45-11:15	Coffee Break (Sponsored by Biosistemi) ☕ & Poster Viewing (S7, S8) 🏡 Elafiti Hall 1	
S7: UNDERSTANDING AND ENHANCING LEGUME CROP TOLERANCE TO ABIOTIC STRESSES 2ND PART		
Elafiti Hall 3 and 4		
	<i>Chairpersons</i>	Pei Xu and Boris Lazarević
	Flash presentations	
11:15-11:19	Aparna Thulaseedharan	LEVERAGING LOCAL ADAPTATIONS IN MUNGBEAN TO COMBAT HEAT STRESS
11:19-11:23	Tadesse Gela	MAPPING GENOMIC REGIONS FOR KEY HEAT-STRESS TOLERANCE TRAITS IN PEA (<i>PISUM SATIVUM</i> L.)
11:23-11:27	Dorte Bodin Dresbøll	LINKING ROOT AND STOMATAL TRAITS TO DROUGHT TOLERANCE IN FABA BEAN AND PEA
11:27-11:31	Lisa Brünjes	DROUGHT AND HEAT STRESS IMPACT ON NECTAR PRODUCTION, POLLINATOR BEHAVIOR, AND YIELD IN FABA BEAN (<i>VICIA FABA</i> L.)
11:31-11:35	Sarah Schiessl-Weidenweber	FABALOUS: FABA BEAN ABIOTIC STRESS TOLERANCE FOR IMPROVED YIELD STABILITY
11:35-11:39	Kamal Hejjaoui	HIGH-THROUGHPUT PHENOTYPING REVEALS GENOTYPIC VARIATION IN DROUGHT RESPONSE AND WATER-USE STRATEGIES IN LATHYRUS SPP. UNDER PROGRESSIVE SOIL DRYING
11:39-11:43	Maciej Nowak	MOTHER OF FT AND TFL1 – A REGULATOR OF SEED GERMINATION UNDER ADVERSE ENVIRONMENTAL CONDITIONS IN MEDICAGO TRUNCATULA
11:43-11:47	AKM Alam	BOLD GRASSPEA: DEVELOPMENT OF CLIMATE RESILIENT GRASSPEA VARIETIES FOR YIELD AND STRESS TOLERANCE IN MARGINAL ENVIRONMENTS
11:47-11:51	Tania Martínez	EALUATION OF A DIVERSE COWPEA COLLECTION FOR DROUGHT ADAPTATION AND IDENTIFICATION OF ASSOCIATED LOCI

11:51-11:55	Shanice Van Haeften	LEVERAGING BREEDING TRIALS AND GLOBAL GENETIC DIVERSITY TO ADDRESS ABIOTIC RESILIENCE IN CHICKPEA
12:00-12:45	Sponsors and Partners	
	PhenoVation- presentation	
	Croatian National Tourist Board - video	
	Grasspea through the farmers' lens: A symbol of resilience, livelihoods, tradition, and hope – video	
	Legume Science journal presentation	
13:00-14:00	Lunch 🍽️	
S8: UNDERSTANDING AND ENHANCING LEGUME CROP TOLERANCE TO BIOTIC STRESSES		
Elafiti Hall 3 and 4		
	<i>Chairpersons</i>	Stefano Pavan and Marie-Laure Pilet-Nayel
	<i>Invited speaker</i>	
14:00-14:30	Diego Rubiales (Full Professor at the Institute for Sustainable Agriculture, CSIC, Córdoba, Spain)	USE OF WILD RELATIVES IN BREEDING GRAIN LEGUMES FOR PEST AND DISEASE RESISTANCE
	Oral presentations	
14:30-14:45	Lars Kamphuis	IDENTIFICATION AND CHARACTERISATION OF TWO EFFECTORS OF <i>ASCOCHYTA RABIEI</i> AND THEIR ROLE IN PATHOGENICITY
14:45-15:00	Magnus Karlsson	COMPARATIVE GENOMICS PROVIDE INSIGHT INTO THE EVOLUTION OF EUROPEAN <i>APHANOMYCES EUTEICHES</i> STRAINS
15:00-15:15	Sanu Arora	RESOLVING A DECADES-OLD MYSTERY: MOLECULAR IDENTIFICATION OF THE FUSARIUM WILT RESISTANCE LOCUS FW IN PEA
	Flash presentations	
15:15-15:19	Bernadette Henares	GENETIC APPROACHES TO IDENTIFY THE LENTIL RECEPTOR FOR <i>ASCOCHYTA LENTIS</i> ALAVR1 EFFECTOR
15:19-15:23	Sabine Banniza	DIGGING DEEPER INTO PULSE CROP ROOT ROTS: THE COMPLEXITY OF <i>FUSARIUM</i> SPECIES COMPLEXES
15:23-15:27	Syama Chatterton	WHEN CROP ROTATION DOESN'T WORK: IMPLICATIONS FOR MANAGING THE BROAD SPECTRUM PATHOGEN, <i>FUSARIUM AVENACEUM</i> , IN PULSE CROPPING SYSTEMS
15:27-15:31	Dinesh Babu Paudel	STUDY ON PSBMV ADAPTATION IN DIFFERENT LEGUMES AND ITS IMPACT ON THE HOST TRANSCRIPTOMIC RESPONSE
15:31-15:35	Manu Affichard	UNTANGLING PLANT EPIDEMICS: A MODELING APPROACH TO SEPARATE WITHIN-LEAF PATHOGEN GROWTH FROM WHOLE-PLANT PATHOGEN DISPERSAL – A CASE STUDY ON PEA FUNGAL DISEASES <i>ANTHRACNOSIS</i> AND <i>ASCOCHYTA BLIGHT</i>
15:39-15:39	Gaetano Giudice	FIELD RESISTANCE TO <i>OROBANCHE CRENATA</i> IN PEA (<i>PISUM SATIVUM</i> L.): BEYOND STRIGOLACTONES
15:39-15:43	Francisco A. Mendes	INTEGRATING GWAS AND APHID BIOASSAYS TO REVEAL RESISTANCE STRATEGIES IN GRASS PEA
15:45-16:30	Coffee Break ☕ & Poster Viewing (S7, S8) 🏠 Elafiti Hall 1	
16:30-17:30	ILS General Assembly; Elafiti Hall 3 and 4	
17:30-18:00	New ILS Scientific Committee Meeting; Elafiti Hall 3 and 4	

FRIDAY – 12 JUNE 2026

S9:HIGH-THROUGHPUT PHENOTYPINGN & S10:CROP MODELLING TO PREDICT YIELD, DISEASE AND OTHER TRAITS

Elafiti Hall 3 and 4

	<i>Chairpersons</i>	Nelson Nazzicari and Véronique Biarnes
	<i>Invited speakers</i>	
9:00-9:30	Rick van de Zedde (Program manager Netherlands Plant Eco-phenotyping Centre (NPEC))	PLANT PHENOTYPING TECHNOLOGY ADOPTION – AND OUR QUEST TO COPE WITH CLIMATE CHANGE
9:30-10:00	Louarn Gaëtan (Senior Scientist, INRAE)	ROLE OF CROP AND PLANT MODELLING IN DESIGNING FORAGE MIXTURES WITH ENHANCED POSITIVE INTERACTIONS AND YIELD
	<i>Oral presentations</i>	
10:00-10:15	Juan Herrera	APPLICATIONS OF DRONE-BASED HIGH-THROUGHPUT PHENOTYPING IN SOYBEAN VARIETY EVALUATION
10:15-10:30	Boris Lazarević	MULTI-SENSOR PHENOTYPING ENABLES DISCRIMINATION OF DROUGHT RESPONSE STRATEGIES IN COMMON BEAN
10:30-10:45	Pietro Iannetta	CROPGOBLIN: OPTIMISING LEGUME-BASED CROP SEQUENCES FOR CLIMATE MITIGATION AND NITROGEN EFFICIENCY
	<i>Flash presentations</i>	
10:45-10:49	Luke Dojack	AN AERIAL VIEW OF NITROGEN UPTAKE AND DEPOSITION IN LENTILS
10:49-10:53	Noé Kavoukdjian-Detot	A STEPWISE APPROACH TO IDENTIFY AND RANK YIELD-LIMITING FACTORS OF SOYBEAN IN TEMPERATE CLIMATES FROM ON-FARM DATA
10:53-10:57	Els Heyrman	QUANTIFICATION OF ROOT BIOMASS IN LUPIN-OAT MIXED INTERCROPPING SYSTEMS BY FTIR SPECTROSCOPY
10:57-11:01	Rica-Hanna Schlichtermann	UTILIZING HYPERSPECTRAL IMAGES AND MACHINE LEARNING TO DIFFERENTIATE HYBRID PROGENY IN FABA BEAN
11:05-11:09	Abdourahmane Diallo	EVALUATION OF THE AZODYN-PEA CROP MODEL, A TOOL TO STUDY PEA ADAPTATION STRATEGIES TO CLIMATE CHANGE
11:09-11:13	Millicent Smith	INTEGRATING FIELD AND CONTROLLED ENVIRONMENT PHENOTYPING TO FAST-TRACK HEAT TOLERANCE IN CHICKPEA
11:13-11:17	Charlotte Häuser	EGYPTIAN FABA BEAN VARIETIES SHOW SUPERIOR ROOT ARCHITECTURE: A NOVEL RHIZOTRON DROUGHT STRESS PROTOCOL WITH AUTOMATED IMAGE ANALYSIS
11:17-11:20	Salma Rouichi	EXPLORING THE RELATIONSHIP BETWEEN ENVIRONMENTAL ORIGIN, PHYLOGENETIC RELATEDNESS AND ROOT SYSTEM ARCHITECTURE (RSA) IN WILD LENTIL SPECIES
11:20-11:40	Coffee Break ☕ & Poster Viewing (S9, S10) 📄 Elafiti Hall 1	
11:40-12:00	Closing Remarks and Awards 🏆 Elafiti Hall 3 and 4	
12:30-19:00	Excursion to Šipan 🗝️	The bus leaves at the 12:30 from the parking area in front of the entrance to Hotel Valamar Lacroma; kindly bring your voucher
17:00-18:30	Walking tour 🗝️	The tour starts at 17:00 in front of the Pile Gate, entrance to the Old Town

POSTERS

Elafiti Hall 1

SESSION 1: LEGUME-BASED VALUE CHAINS

No	Title	Authors
S1.1	STRENGTHENING FRAGILE FOOD SYSTEMS WITH CLIMATE-RESILIENT CROPS: LESSONS FROM GRASS PEA (<i>LATHYRUS SATIVUS</i>) IN CONFLICT-AFFECTED SMALLHOLDER FARMING IN NIGERIA	Peret Goar
S1.2	PUBLICLY FINANCED MARKET INFORMATION SYSTEMS AS GOVERNANCE TOOLS TO STABILIZE FOOD-GRADE LEGUME SUPPLY FOR NUTRITION APPLICATIONS	Marcus Mergenthaler, Dennis Köpp, Lars Wernze
S1.3	PROJECT INTEGRALE : GENETIC DIVERSITY AND FUNCTIONAL PROCESSING OF PULSE CROPS: AN INTEGRATED FARM-TO-FORK APPROACH FOR BREEDING AND MULTI-USE VALORIZATION	Claire Barbet-Massin, Nadim Tayeh, Têko Gouyo, Valérie Guenard Lampron, Gilles Bertheau, Abdellatif Barakat, Adrien Reau, Reine Barbar
S1.4	CULTIVATION AND USE OF LEGUME SEEDS IN PIGS' FEEDING ON INDIVIDUAL FARMS IN POLAND – RESULTS FROM RE-LIVESTOCK PROJECT	Małgorzata Kasprończ-Potocka, Anita Zaworska-Zakrzewska, Nicholas Davison, Christian Gossel, Jo Smiths, Joao Palma, Ana Tomas, Dagamara Łodyga, Lindsay Whistance, Laurence Smith
S1.5	LEGUME VALUE-CHAINS IN PORTUGAL: A PRODUCTION-LEVEL PERSPECTIVE	Sara Pereira, Joana Machado, Madalena Vaz, Marta W. Vasconcelos, Ana Maria Barata, Maria Graça Pereira, Elisabete Pinto, Carla S. Santos
S1.6	LEGUME DILEMMAS: A NARRATIVE-BASED SERIOUS GAME TO EXPLORE VALUE CHAIN TRADE-OFFS AND SUPPORT MULTI-ACTOR POLICY DIALOGUE	Ágnes Neulinger, Kata Fodor, Bálint Balázs

SESSION 2: LEGUME-BASED CROPPING SYSTEMS: PERFORMANCE, ECOSYSTEM SERVICES AND PROFITABILITY

No	Title	Authors
S2.1	KICKCHICK: KICKSTART OF CHICKPEA (<i>CICER ARIETINUM</i>) GROWING IN FLANDERS	Aurélië Tredé, Tim Vleugels, Sophie Waegebaert, Jonas Claeys
S2.2	TOWARDS LUCERNE VARIETIES FOR USE AS A LIVING MULCH IN CEREAL PRODUCTION	Zineb El Ghazzal, Gaëtan Louarn, Marie Pégard, Fabien Surault, Bernadette Julier
S2.3	ANALYZING THE GENETIC TOLERANCE OF CHICKPEA GERMPLASM FOR DIFFERENT MODES OF ACTIONS OF HERBICIDES	Bella Amyotte, Bunyamin Tar'an, Carmen Breitzkreutz
S2.4	BIOSTIMULATION BY GERMANCE IMPROVES SOYBEAN PERFORMANCE THROUGH ENHANCED NITROGEN FIXATION AND SEED PROTEIN QUALITY	Julien Besnard, Jean-Louis Moreac, Patrick Geliot, Jean-Christophe Avicé
S2.5	BOOSTING CLIMATE RESILIENCE IN MEDITERRANEAN AGROFORESTRY SYSTEMS USING ORPHAN LEGUMES: THE FORECAST APPROACH	Alma Balestrazzi, Anca Macovei, Cinzia Calvio, Shraddha Shridhar Gaonkar, Daniele Dondi, Dhanalakashmi Vadivel, Massimiliano Corso, Radhouane Gdoura, Amine Elleuch, Hanen El Abed, Marwa Gdoura, Aziz Benhamrouche, Saifi Merdas, Mohand Bersi,

		Susana Araujo, Mikael Moura, Pier Mario Chiarabaglio, Loic Rajjou, Pierluigi Paris, Antonello Franca, Giovanni Maria Altana, Francesca Serralutzu, Andreia Afonso
S2.6	INTERCROPPING GRASS PEA (<i>LATHYRUS SATIVUS</i> L.) WITH SPRING CEREALS UNDER CENTRAL EUROPEAN CONDITIONS: EFFECTS ON PROTEIN AND B-ODAP ACCUMULATION	Christine Boldischar, Tamara Lebrecht, Jéssica Bubolz, Moritz Reckling, Ulrike Lohwasser, Sabine Zikeli, Christian Zörb
S2.7	PERFORMANCE OF GRAIN LEGUME/CEREAL INTERCROPS IN AGROFORESTRY IN SOUTHERN SWEDEN	Georg Carlsson, Johannes Albertsson
S2.8	SEED BIOPRIMING AND HYDROPRIMING ENHANCE COMPETITIVE ABILITY OF GRAIN LEGUMES AGAINST WEEDS	Ageliki Petraki, Athina Motsenigou, Nikolina Vidali, Dimitrios Vlotsos, Nikos Zacharias, Cinzia Calvio, Alma Balestrazzi, Dimosthenis Chachalis
S2.9	LEGUME-DIVERSIFIED CROPPING SYSTEMS FOR POLLINATION SERVICE SUPPORT: AN LCA PERSPECTIVE BASED ON METHODOLOGICAL DEVELOPMENT	Stefano Cimorelli, Eric Conti, Katri Joensuu, Thomas Nemecek, Pietro Goglio
S2.10	AGRONOMIC PERFORMANCE AND CULTIVATION RISKS OF YELLOW PEA (<i>PISUM SATIVUM</i>) UNDER BELGIAN CONDITIONS	Jonas Claeys, Sophie Waegebaert, Valérie Claeys, Joos Latré
S2.11	EFFECTS OF RHIZOBIAL INOCULATION AND NITROGEN FERTILIZATION ON NITROGEN FIXATION IN SOLE AND INTERCROPPED FABA BEAN-WHEAT SYSTEMS	Katrin Magdalena Amann, Agnes Karla Tillitz Pedersen, Tomke Susanne Wacker, Dorte Bodin Dresbøll
S2.12	ASSESSING HOW LEGUME CROPS AFFECT SOIL EROSION	Pietro Goglio, Simone Sorini, Francesca Todisco
S2.13	A SYSTEMATIC MULTI-SITE EVALUATION OF NITROGEN FIXATION IN EUROPEAN PURE STAND AND MIXED INTERCROPPING SYSTEMS	Els Heyrman, Kate Buckeridge, Irene Griffiths, Takashi Tanaka, Konstantinos Mattas, Vesna Župunski, Adnan Šišić, Susanne Vogelgsang, Greet Verlinden, Kevin Dewitte, Steven Maenhout, Steven Sleutel S
S2.14	IMPACT OF INTRODUCING LEGUME CROPS TO AGRICULTURAL CROPPING SYSTEMS ON THE CLIMATE IMPACT AND SOIL ORGANIC CARBON LEVELS: A GLOBAL-SCALE META-ANALYSIS	Katri Joensuu, Pietro Goglio, Pete Iannetta, Thomas Nemecek
S2.15	DOES MOLYBDENUM NUTRI-PRIMING ENHANCE BIOLOGICAL NITROGEN FIXATION IN FABA BEAN (<i>VICIA FABA</i> L.)?	Tamanna Kasakaitis
S2.16	INFLUENCE OF GREEN MANURING WITH LEGUMINOUS AND GRAMINEOUS SPECIES, AS AN AGROECOLOGICAL ALTERNATIVE, ON THE PROPERTIES AND FUNCTIONS OF AN AGRICULTURAL SOIL IN THE CAMPO DE CARTAGENA (SE SPAIN)	Antonio Sánchez Navarro, Aldara Girona Ruiz, Pura Marín Sanleandro, M ^a José Delgado Iniesta
S2.17	HAIRY VETCH MANAGEMENT STRATEGIES TO ENHANCE ECOSYSTEM SERVICES AND RESOURCE-USE EFFICIENCY IN SORGHUM GROWN UNDER RAINFED CONDITION	Edoardo Monacci, Lorenzo Gabriele Tramacere, Gabriele Sileoni, Clarissa Clemente, Silvia Pampana, Silvia Tavarini, Federico Leoni, Stefano Carlesi, Anna Camilla Moonen, Daniele Antichi
S2.18	DESCRIBE EXISTING CROPPING SYSTEMS IN FRANCE TO ASSESS THE IMPACT OF LEGUMES ON THEIR ECONOMIC AND ENVIRONMENTAL PERFORMANCE	Baptiste Rayon, Christophe Sausse, Hélène Raynal, Vincent Lecomte, Anne Schneider
S2.19	SEED DORMANCY, SOIL PROPERTIES AND PH SHAPE EARLY ESTABLISHMENT IN LUPINUS COVER CROPS	Ana M Pesqueira, Ana M González, Miriam Gallardo, Marta Santalla
S2.20	INSERTING SUCCESSFULLY GRAIN LEGUMES IN FOOD AND CROPPING SYSTEMS	Anne Schneider, Wassila Riah, Julie Constantin, Stéphane Cadoux, Lucile Finot, Caroline Strub, Elodie Arnaud, Martine Leflon
S2.21	AGROECOLOGICAL EFFECTS OF MAIZE-BEAN MIXED CROPPING: IMPLICATIONS FOR YIELD, WEEDS, PESTS AND BENEFICIALS	Cornelia Maria Schouten, Susanne Vogelgsang, Johan Six, Torsten Schöneberg

S2.22	CHICKPEA (<i>CICER ARIETINUM</i> L.) VARIETY RESPONSES TO SEEDING DENSITY: PRELIMINARY RESULTS FROM A MULTI-YEAR TRIAL IN SWITZERLAND	Noémie Simon, Anna Blatter, Sophia Bohländer, Jürg Hiltbrunner
S2.23	TRACING THE FATE OF 13C AND 15N IN NEW CHICKPEA CULTIVARS TO SOIL ORGANIC MATTER	Jenna Sloman, Hongjie Zhang, Bunyamin Tar'an
S2.24	AGRONOMIC AND ECONOMIC COMPLEMENTARITY PROMOTES SUBSTANTIAL GAINS IN A PEA-LENTIL INTERCROP	Samuel Wüst, Noémie Simon, Anna Blatter, Jürg Hiltbrunner
S2.25	SUMMER LEGUME COVER CROPS ENHANCE NITROGEN SUPPLY AND WINTER WHEAT YIELD	Liina Talgre, Karli Sepp, Kristo Tikk, Viacheslav Eremeev, Merili Toom
S2.26	BIO-TEST FOR POWDERY MILDEW (<i>ERYSIPHE TRIFOLII</i>) IN RED CLOVER (<i>TRIFOLIUM PRATENSE</i>)	Tim Vleugels, Leen Leus
S2.27	DOES MIXED CROPPING OF LUPINS WITH CEREALS IMPROVE YIELD STABILITY AND CROP PERFORMANCE BY FOSTERING ECOSYSTEM SERVICES SUCH AS WEED AND PEST SUPPRESSION?	Philippa von Nathusius, Johan Six, Susanne Vogelgsang
S2.28	CROPDIVA: ENHANCING EUROPEAN AGROBIODIVERSITY	Susanne Vogelgsang, Filippo Carmenati, Yannik Schlup, Johan Six, Geert Haesaert
S2.29	INTERCROPPING OF TRADITIONAL PEA VARIETIES WITH FABA BEAN IN ORGANIC AGRICULTURE	Dylan Wallman, Matti Wiking Leino, Åsa Grimberg, Georg Carlsson
S2.30	CAN WE INTRODUCE COVER CROPS INTO CANOLA AND WHEAT PRODUCTION IN THE CANADIAN PRAIRIES WITHOUT REDUCING YIELDS?	Maryse Bourgault
S2.31	POST-BURN SOIL RECOVERY AND LEGUME (<i>ONOBRYCHIS VICIIFOLIA</i>) FORAGE PERFORMANCE USING ORGANIC AMENDMENTS	Aleksandra Perčin, Kristina Kljak, Marija Galić, Igor Bogunović
S2.32	FIELD EVALUATION OF COMMON BEAN (<i>PHASEOLUS VULGARIS</i> L.) GENOTYPES UNDER SLOVAK CONDITIONS WITHIN THE EVA NETWORK	Erika Zetochová, Iveta Čičová, Ľubomír Mendel

SESSION 3: BIODIVERSITY AND BENEFICIAL PLANT-MICROBE INTERACTIONS

No	Title	Authors
S3.1	COMPARATIVE METABOLOMIC PROFILING OF LUPINUS ALBUS AND L. ANGUSTIFOLIUS HARVEST RESIDUES: EXPLORING CHEMICAL DIVERSITY AND VALORIZATION POTENTIAL	Salma Halime, Jenny Renaut, Stéphanie Zimmer, Hanna Heidt, Cédric Jacquard, Kjell Sergeant
S3.2	VARIATION IN SEED COBALT CONCENTRATION IN FIELD PEA (<i>LATHYRUS OLERACEUS</i> LAM.) AND FABA BEAN (<i>VICIA FABA</i> L.) GENOTYPES: IMPLICATIONS FOR BIOLOGICAL NITROGEN FIXATION	Celine Pii Lunau Blanke, Mathias Lindegaard Diness, Sidsel Birkelund Schmidt, Jakob Magid, Kristian Holst Laursen
S3.3	SCREENING OF DIVERSE MUNGBEAN GERMPLASM UNDER LOW AND HIGH NITROGEN REVEALS DIVERSITY ACROSS SYMBIOTIC NITROGEN FIXATION AND RELATED TRAITS	Estelle Grundy, Celine Mens, Hamza Ramzan, Michael Udvardi
S3.4	SYMBIOSIS-RECRUITED GENETIC TRAITS FOR SUSTAINABLE FABA BEAN PRODUCTION	Devika Talwar
S3.5	PEPTIDE-BASED SEED TREATMENT ENHANCES NODULATION IN SOYBEAN	Lara Van Dijck, Vaast Vanoverschelde, Ceder Alloo, Maarten Vanderstukken, Sofie Goormachtig
S3.6	HOST GENETIC BACKGROUND MODULATES ROOMIE1-ASSOCIATED MICROBIAL RECRUITMENT AND TRANSCRIPTOMIC RESPONSES IN <i>LOTUS JAPONICUS</i>	Turgut Yigit Akyol, Yusdar Mustamin, Johan Quilbé, Shusei Sato, Stig Uggerhøj Andersen
S3.7	HILUM, THE ENIGMATIC REGION OF THE SEED COAT	Jana Balarynová, Jana Sekaninová, Michal Karady, Aleš Pěnčík, Petra Krejčí, Barbora Fousková, Jorge Rencoret, Oldřich Trněný,

		Kataryna Trach, Zbyněk Žingor, José C. del Río, Petr Bednář, Petr Smýkal
S3.8	REINTRODUCTION OF GRASS PEA (LATHYRUS SATIVUS) INTO ALGERIAN AGRICULTURE: GENETIC DIVERSITY, YIELD POTENTIAL, AND INCORPORATION INTO ANIMAL FEED	Ilyes Bouhrem, Djilali Benabdelmoumene, Belkacem Zarouri, Ridha Boudiar, Yousra Bekkakcha, Laldja Meissa Bouchehit, Astma Obeidi
S3.9	COATING BEAN SEED WITH VEGETAL RESIDUES IMPROVES GERMINATION AND TRICHODERMA DEVELOPMENT	Pedro A. Casquero, Sara Mayo-Prieto, Alejandra J. Porteous-Álvarez, Guzmán Carro-Huerga, Laura Zanfaño, Daniela Ramírez-Lozano, Álvaro Rodríguez-González, Alicia Lorenzana de la Varga
S3.10	NON-MODEL SPECIES: MISSING PIECES IN THE LEGUME EVOLUTION PUZZLE	Katarzyna Czyż, Michał Stanoch, Karolina Sobańska, Michał Kawaliło, Grzegorz Koczyk
S3.11	INTERACT: UNDERSTANDING EVOLUTION OF COMMON BEAN PLANT-PLANT INTERACTIONS TO DEVELOP A MORE SUSTAINABLE AGRICULTURE	Francesca Francioni, Chiara Santamarina, Giacomo Conti, Marzia Rossato, Chiara Zanolli, Antonina Rita Limongi, Alice Pieri, Elisa Bellucci, Laura Nanni, Roberto Papa, Massimo Delledonne, Elena Bitocchi
S3.12	TRANSPOSABLE ELEMENT DIVERSITY AND ITS POTENTIAL ROLE IN SYMBIOSIS REGULATION EXPLORED WITH NEW CHROMOSOME-SCALE ASSEMBLIES OF THE MODEL LEGUME MEDICAGO TRUNCATULA ECOTYPES	Paulina Poniatowska-Rynkiewicz, Paweł Wojciechowski, Agnieszka Zmienko
S3.13	GENETIC DIVERSITY OF COMMON BEAN LANDRACES VS. CULTIVARS: INSIGHTS FROM BORLOTTI BEANS IN NORTHERN ITALY TO GUIDE CONSERVATION STRATEGIES	Tea Sala, Alessia Losa, Laura Toppino, Agostino Fricano, Graziano Rossi, Valerio Gipli, Michela Landoni
S3.14	ENHANCING NITROGEN FIXATION IN NORTHERN EUROPE BY USING SYNERGISTIC AND HOLOBIONT INTERACTIONS BETWEEN BACTERIA, NUTRIENTS AND PLANTS	Monika Toleikiene, Justina Kaziuniene, Yasha Jamil, Raminta Skipityte, Rūta Barisevičiūtė
S3.15	PULSEHEAT: ENHANCING LENTIL RESISTANCE TO HEAT STRESS	Renan Uhdre, Marilyn Warburton, Hatice Sari, Clarice Coyne, Sindhuja Sankaran
S3.16	OPTIMIZING INTERACTIONS BETWEEN LEGUMES AND SOIL MICROORGANISMS FOR SUSTAINABLE AND HEALTHY LEGUME PRODUCTION	Paloma Veyland, Sandra Bensmihen, Delphine Capela, Nathalie Cassagne, Claire Cherbuy, Pierre-Emmanuel Courty, Florian Frugier, Sophie Le Gall, Marc Lepetit, Hervé Martin, Isabelle Savary-Auzeloux, Marion Prudent
S3.17	IMPROVING 15N-BASED ESTIMATES OF BIOLOGICAL N USE EFFICIENCY IN FIELD PEA	Ivo Voor, Evelin Loit-Harro
S3.18	QUANTIFYING NITROGEN FIXATION IN LEGUMES USING CRISPR-DERIVED NON-NODULATING MUTANTS	Grace Weston-Olliver
S3.19	MATCHMAKING: UNVEILING OPTIMAL SOYBEAN-RHIZOBIA MATCHES IN NORTH-WESTERN	Helen Wilkinson, Sofie Goormachtig
S3.20	PHENOTYPIC VARIATION IN A CORE COLLECTION OF LUPINUS MUTABILIS	Umesh K. Tanwar, Magdalena Kroc, Katarzyna Czepiel, Humaira Jamil, Alice Pieri, Elena Bitocchi, Elisa Bellucci, Barbara Pipan, Lorenzo Spadoni, Idris Vruzhaj, Francesca Ferrero, Marzia Rossato, Massimo Delledonne, Roberto Papa, Karolina Susek
S3.21	NUE-LEG: 'ELITE' RHIZOBIA FOR NOVEL FORAGE LEGUMES	Chrizelle Krynauw, Ashley Murdoch, David Lloyd, Debbie Allen, Pietro Iannetta

SESSION 4: LEGUMES FOR HUMAN AND ANIMAL NUTRITION AND HEALTH

No	Title	Authors
S4.1	PATTERNS AND DETERMINANTS OF GRASSPEA (<i>LATHYRUS SATIVUS</i>) CONSUMPTION AMONG RURAL HOUSEHOLDS IN MAJOR CULTIVATING DISTRICTS OF ETHIOPIA: A CROSS-SECTIONAL STUDY	Azeb Atnafu
S4.2	EFFECT OF ENSILING ON AMINO ACIDS, RIBOFLAVIN, AND SECONDARY PLANT METABOLITES IN WHOLE VETCH PLANTS HARVESTED AT DIFFERENT GROWTH STAGES	Sina Stepczynski, Stephanie Witten, Karen Aulrich
S4.3	INVESTIGATING GRASSPEA'S POTENTIAL AS A UK-GROWN POULTRY FEED CROP	Pietro Butelli, Anne Edwards, Peter Emmrich, Jonathan Clarke, Cathie Martin
S4.4	VARIABILITY IN THE PROXIMATE COMPOSITION OF CAROB PULP FROM SOUTHERN CROATIA	Klaudija Carović-Stanko, Marko Petek, Boris Lazarević, Jerko Gunjača, Kristina Kljak
S4.5	THE QUALITY OF DANISH-GROWN SOYBEAN AND LUPIN FOR HUMAN CONSUMPTION	Svend Dam, Mike Skjødt Johansen, Jim Rasmussen, Juliana Trindade Martins
S4.6	SCREENING OF PEA ACCESSIONS SUITABLE FOR THE DEVELOPMENT OF FUTURE FOOD PRODUCTS	Bjørn Dueholm, Åsa Grimberg, Mohammed Hefni, Cornelia Witthöft, Gun Hagström, Cecilia Hammenhag
S4.7	GENETIC MAPPING OF SOLUBLE SUGARS AND MYO-INOSITOL CONTENT IN FRESH PODS OF COMMON BEAN	Carmen Garcia-Fernandez, Roberto Rodriguez-Madrera, Ana Campa, Juan Jose Ferreira
S4.8	VARIETAL AND SEASONAL EFFECTS ON FUNCTIONAL, SENSORY, AND APPLICATIVE PROPERTIES OF PEA PROTEIN ISOLATES (PROJECT PEA4EVER)	Teko Gouyo, Hugo Mear, Alix Gombert, Mélanie Genot, Florian Barthes, David Gouache
S4.9	PASTA FORMULATED WITH HYPOALLERGENIC LUPINE FLOUR PROCESSED BY INSTANTANEOUS CONTROLLED PRESSURE DROP	Eva Guillamón, Claudia Arribas, Claudia G. García, Carmen Cuadrado, Mercedes M. Pedrosa
S4.10	VALIDATION OF QTNS ASSOCIATED WITH SEED MINERAL COMPOSITION IN COMMON BEAN LANDRACES	Jerko Gunjača, Boris Lazarević, Toni Safner, Kristijan Konopka, Kristina Kljak, Zlatko Liber, Zlatko Šatović, Igor Palčić, Smiljana Goreta Ban, Klaudija Carović-Stanko
S4.11	WHICH LEGUME SPECIES, GENOTYPES, AND FERTILISATION STRATEGIES ARE BEST SUITED FOR PLANT-BASED FOODS?	Kristian Holst Laursen, Jens Axel Knuhtsen
S4.12	REMEDICATION OF SLASH-PILE-BURNED AGRICULTURAL SOIL USING LEGUMES AND ORGANIC AMENDMENTS: EFFECTS ON FRESH AND ENILED FIELD BEAN (<i>VICIA FABA</i>) FORAGE	Kristina Kljak, Marija Duvnjak, Dora Zurak, Ivica Kisić, Igor Bogunović
S4.13	OVERVIEW OF GENE CO-EXPRESSION NETWORKS ASSOCIATED WITH ALKALOID ACCUMULATION IN NARROW-LEAFED LUPIN	Katarzyna Czepiel, Aleksandra Burdzińska, Katarzyna Juszczak, Grzegorz Koczyk, Dariusz Kruszka, Magdalena Kroc
S4.14	DEVELOPING CHICKPEA AS AN INTERMEDIATE CROP: FROM PULSE CROP TO PROTEIN RESOURCE	Vaishnavi Losari, Oksana Korniienko, Furkan Coban, Alexandre Aono, Himabindu Kudapa, Vivekanand Vivekanand, Ramesh Vetukuri, Aakash Chawade, Eva Johansson
S4.15	KEY ANTINUTRITIONAL COMPOUNDS IN AUSTRALIAN PULSES: VICINE-CONVICINE IN FABA BEANS AND QUINOLIZIDINE ALKALOIDS IN LUPINS	Pankaj Maharjan, Nicholas Rigas, Linda McDonald, Kerrie Flett, Emily Peacock, Audrey Delahunty, Cassandra Walker CK
S4.16	COMBINING LEGUME FLOUR AND INNOVATIVE TECHNOLOGIES TO IMPROVE THE NUTRITIONAL QUALITY OF BAKED GOODS	Antonella Pasqualone, Davide De Angelis, Francesca Vurro, Giacomo Squeo, Francesco Caponio
S4.17	STATUS OF MACROELEMENTS IN WILD CAROB FRUIT FROM DIFFERENT LOCATIONS IN SOUTHERN CROATIA	Marko Petek, Anton Miletić, Klaudija Carović-Stanko, Kristijan Konopka, Goran Fruk, Tomislav Karažija, Antun Šokec, Mihaela

		Šatvar Vrbančić, Szilvia Veres, Tomaš Lošak, Kristina Kljak
S4.18	PEA PROTEIN ENRICHMENT IN 3D-PRINTED HYBRID PORK SNACKS: PHYSICOCHEMICAL AND SENSORY EVALUATION	Leonor Pereira, Lisiane Carvalho, Adriana Ferreira, Catarina Prista, Teresa Matos, Anabela Raymundo, Isabel Sousa
S4.19	TURNING GRASS PEA INTO OPPORTUNITY: INNOVATIVE FERMENTED GRASS PEA PRODUCTS FOR PRODUCERS AND CONSUMERS	Rafaela Santos, Sónia Oliveira, David Santos, Rita Madih, Maria Mina, Elsa Mecha, Célia Rocha, Anabela Raymundo, Rui Costa Lima, Luis Cunha, Maria Rosário Bronze, Maria Carlota Vaz Patto, Catarina Prista
S4.20	GRASS PEA (<i>LATHYRUS SATIVUS</i>) FLOUR AS A PLANT-BASED EMULSIFIER FOR CLEAN-LABEL MAYONNAISE	Anaísa Silva, Carolina Dias, Miguel Nascimento, Ana Tasso, Anabela Raymundo
S4.21	SEED COAT COLOUR AS A DRIVER OF ANTIOXIDANT AND MORPHOLOGICAL VARIATION IN PORTUGUESE COMMON BEAN GERMPLASM	Jacinta Santos, Madalena Vaz, Sara Pereira, Joana Machado, Marta W. Vasconcelos, Ana Maria Barata, Maria da Graça Pereira, Carla S. Santos
S4.22	ENHANCING PEA PROTEIN CONCENTRATE FUNCTIONALITY: A COMPARATIVE STUDY OF PHYSICAL AND CHEMICAL MODIFICATIONS	Anahita Sharifi, Farhad Ahmadi, Ken Ng, Pankaj Maharjan, Cassandra Walker, Hafiz Suleria
S4.23	FARMERS' VOICES ON GRASSPEA: RESILIENCE ROOTED IN TRADITION	Shivali Sharma, Arpita Das, Dagnachew Bekele Besha, AKM Mahbul Alam, Maria Carlota Vaz Patto, Padam Poudel, Xu Quanle, Petra Pajdakovic, Benjamin Kilian
S4.24	HARNESSING THE POWER OF PLANT-BASED MATERIALS: NATURAL ANTIMICROBIAL COMPOUNDS FOR A SUSTAINABLE FUTURE	Christina Ane Elisabeth Sølvsten, Aviaja Amtoft Aagaard, Connie Jennings Melchjorsen, Svend Dam, Sander Sieuwerts
S4.25	FROM BY-PRODUCTS TO FUNCTIONAL FOODS: LEGUME PROTEIN-STABILIZED EMULSIONS FOR CIRCULAR FOOD SYSTEMS	Isabel Sousa, Francisco Herdeiro, Marco Alves, Anabela Raymundo
S4.26	ISOFLAVONES PROFILES OF ALFALFA (<i>MEDICAGO SATIVA</i> L.) AT DIFFERENT GROWTH STAGES	Sanja Vasiljević, Simona Bukonja, Snežana Katanski, Vuk Đorđević, Jegor Miladinović, Zorica Nikolić, Zlatica Mamlić, Ana Uhlarik, Branko Milošević
S4.27	GENETIC VARIATION IN PROTEIN SUBUNIT COMPOSITION OF BELGIAN FABA BEAN FLOUR DETERMINED WITH A NOVEL SIZE-EXCLUSION CHROMATOGRAPHY METHOD	Elia Veirman, Arno G.B. Wouters, Ben Van den Wouwer, Laura Scheldewaert, Geert Van Royen, Hilde Muylle
S4.28	WHAT MAKES CONVICINE IN VICIA SPECIES?	Laura Vottonen, Frederick Stoddard
S4.29	A CLINICAL–IMMUNOLOGICAL PERSPECTIVE ON THE IMPACT OF CULTIVAR CHOICE AND CULTIVATION METHODS ON THE ALLERGENICITY OF LEGUMES	Vesna Vukičević Lazarević, Klaudija Carović-Stanko
S4.30	COMPOSITIONAL DIVERSITY OF AUSTRALIA'S MAJOR PULSES: FOUNDATIONS FOR FUTURE PROTEIN AND FOOD INNOVATION	Cassandra Walker, Nicholas Rigas, Linda McDonald, Kerrie Flett, Emily Peacock, Jodine O'Connor, Audrey Delahunty, Pankaj Maharjan
S4.31	EFFECT OF TEMPERING AND MILLING ON FUNCTIONALITY OF YELLOW PEA FLOUR	Ning Wang, Dora Fenn, Lisa Maximiuk
S4.32	WHOLE PLANT VETCH SILAGE AS ROUGHAGE FOR FATTENING PIG	Stephanie Witten, Julika Wiskandt, Marie-Theres Machner, Ralf Bussemas, Karen Aulrich
S4.33	POTENTIAL BENEFITS OF USING LUPIN AND FABA BEAN SEEDS IN THE FEEDING OF NATIVE PIG BREEDS ON MEAT QUALITY AND PRODUCTION, AND ENVIRONMENTAL CONDITIONS	Anita Zaworska-Zakrzewska, Dagmara Łodyga, Małgorzata Kasprzowicz-Potocka
S4.34	FROM GERMPLASM TO FEED: FLOWERING TIME AND QUALITY ATTRIBUTES OF 100 VETCH GENOTYPES	Mohammed Al-Muttwaki, Stephanie Witten, Karen Aulrich, Ulrike Lohwasser, Nora Honsdorf
S4.35	DEVELOPMENTAL STAGE-DEPENDENT GENE EXPRESSION MODULATES MATERNAL CONTROL OF SEED VICINE BIOSYNTHESIS IN FABA BEAN	Samson Ugwuanyi, Thomas Gerke-Fabian, Hanna Tietgen, Felix Dreyer, Amine Abbadi, Rod Snowdon

SESSION 5: EMERGING TECHNOLOGIES IN OMICS-BASED CROP IMPROVEMENT

No	Title	Authors
S5.1	SNP GENOTYPING FOR LEGUMES	Martin Ganal, Joerg Plieske, Eva Grafahrend-Belau, Naser Poursarebani, Thomas Gross, Heike Gnad, Heike Molenaar
S5.2	GENETIC ARCHITECTURE AND NETWORKS UNDERLYING AGRONOMICAL TRAITS IN SOYBEAN	Marina Čeran, Vuk Đorđević, Jegor Miladinović, Predrag Ranđelović, Marjana Vasiljević, Vojin Đukić, Simona Bukonja
S5.3	INSIGHT INTO MICRORNA REGULATORY NETWORKS INVOLVED IN FLOWERING INDUCTION OF WHITE LUPIN (<i>LUPINUS ALBUS</i> L.)	Allen Eldho Paul, Jolanta Belter, Anna Surma, Wojciech Bielski, Michał Książkiewicz, Renata Galek, Wojciech Karłowski, Sandra Rychel-Bielska
S5.4	TOWARDS PAN-NLROME IN COMMON BEAN	Maria Jurado, Baptiste Imbert, Niccolò Rossi, Alexandre Roudaut, Maria Victoria Prejean, Gianluca Teano, Filippo Ferrucci, Massimo Delledonne, Roberto Papa ⁵ , Valerie Geffroy
S5.5	KEY REGULATORS OF FLORAL INDUCTION IN FABA BEAN (<i>VICIA FABA</i> L.) ARE REVEALED FROM SPATIO-TEMPORAL GENE EXPRESSION ANALYSIS OF CONTRASTING GENOTYPES	Umer Mahmood, Per Hofvander, Åsa Grimberg
S5.6	SINGLE-NUCLEUS AND SPATIAL TRANSCRIPTOMICS REVEAL SPATIAL EXPRESSION AND FUNCTION OF PVYSL3 IN POD-SEED IRON TRANSPORT IN COMMON BEAN	Ning Kang
S5.7	UNMETHYLATED REGION PROFILING IN FABA BEAN	Rose Mary Paul, Silvia Zanini, Peter Crisp, Agnieszka Golicz
S5.8	GENOME-WIDE MUTATION DISCOVERY THROUGH OPTIMIZED WHOLE-GENOME SEQUENCING IN A NOVEL EMS-BASED COMMON BEAN TILLING PLATFORM	Paolo Cozzi, Giulio Testone, Chiara Russo, Dario Paolo, Eleonora Cominelli, Massimo Galbiati, Alessia Losa, Tea Sala, Angelo Gaiti, Elena Avite, Carlo Pozzi, Francesca Sparvoli
S5.9	DEVELOPMENT OF A PRACTICAL HAPLOTYPE GRAPH (PHG) DATABASE FOR FABA BEAN USING MULTIPLE GENOME ASSEMBLIES	Rishi Srivastava, Silvia Zanini, Amine Abbadi, Olaf Sass, Björn Usadel, Agnieszka Golicz
S5.10	CRISPR/CAS-BASED MANIPULATION OF TRANSCRIPTIONAL REPROGRAMMING AND STOMATAL IMMUNITY AGAINST PATHOGEN INVASION OF AFRICAN YAM BEAN (<i>SPHENOSTYLIS STENOCARPA</i>) AND GRASSPEA (<i>LATHYRUS SATIVUS</i>)	Okon Unung, Emmanuel Iwuala
S5.11	DEVELOPING FUNCTIONAL GENOMIC RESOURCES TO ACCELERATE <i>VICIA SATIVA</i> (COMMON VETCH) IMPROVEMENT	Junyi Wang
S5.12	TRANSFERABLE GENOTYPING AND GENETIC DIVERSITY ASSESSMENT APPROACHES FOR LEGUME GENETIC RESOURCES	Katarína Ondreičková, Iveta Čičová, Pavol Hauptvogel
S5.13	GENEBANK GENOMICS: RESURRECTING UTILITY FOR NORDIC SOYBEAN	Norbert T. Bokros, Josephine Connelly, Guillaume P. Ramstein, Ulrika Carlson-Nilsson, Michael Lyngkjær, Torben Asp

SESSION 6: CROP BREEDING: CHALLENGES, TOOLS, STRATEGIES AND ACHIEVEMENTS

No	Title	Authors
S6.1	ASSESSING REALIZED GENETIC GAIN FOR GRAIN YIELD IN LENTIL ACROSS DRYLAND REGIONS USING INTERNATIONAL MULTI-ENVIRONMENT NURSERY TRIALS	Hoda Abou Younes, Fouad Maalouf, Khaled Al-Shamaa, Rind Balech, Ashutosh Kumar Yadav, Outman Bouhlal, Muhammad Imtiaz, Diego Rubiales, Shiv Kumar Agrawal
S6.2	AGROBACTERIUM MEDIATED TRANSFORMATION OF <i>LATHYRUS SATIVUS</i>	Keya Akter
S6.3	WHITE LUPIN BREEDING FOR INTERCROPPING WITH CEREALS: RESPONSE OF EVOLUTIONARY POPULATIONS AND MORPHOLOGICALLY CONTRASTING LINES TO DIFFERENT PURE OR MIXED STAND ENVIRONMENTS	Daniele Cavalli, Paolo Annicchiarico, Tommaso Notario, Nicolò Franguelli, Luciano Pecetti
S6.4	BOOSTING INNOVATION IN PEA BREEDING THROUGH PRE-COMPETITIVE RESEARCH AND BREEDING COLLABORATION	Sanu Arora, Mishi Vachev, Kumar Gaurav, Juan Jose Ferreira, Ana Maria Campa Negrillo, Catherine Howarth, Fiona Corke, Jose De Vega, Agnieszka Katańska-Kaczmarek, Malgorzata Niewinska, Lars Ostergaard, Augustin Delpierot, Donal Murphy-Bokern, Klaus Oldach
S6.5	INTEGRATING GLOBAL GERMPLASM INTO FRENCH LENTIL AND CHICKPEA BREEDING PROGRAMS	Claire Barbet-Massin, Fouad Maalouf, Shiv Kumar
S6.6	POLLINATOR-MEDIATED YIELD GAINS AND GENOTYPE × ENVIRONMENT INTERACTIONS IN GRASSPEA UNDER DIFFERENT GROWING CONDITIONS IN CENTRAL INDIA	Surendra Kumar Barpete, Ashutosh Yadav, Akanksha Singh, Narayan Bhat Devate, Arpita Das, Kuldeep Tripathi, Shiv Kumar
S6.7	STREAMLINING PEA GENETIC RESOURCES INTO COMMERCIAL PLANT BREEDING : FIRST RESULTS FROM THE PEA4EVER PROGRAM	Florian Barthès, Elise Bizouerne, Valérie Laurent, Audrey Courtial, Gaetan Touzy, Delpierot Augustin, Thierry Bebin, Elise Cocciantelli, Ellen Dugue-Goudemand, Laurent Gervais, Pauline Lafage, Anne Tissot, David Gouache
S6.8	THE EFFECT OF DROUGHT STRESS ON DISEASE PATTERNS IN LENTIL: IMPLICATIONS FOR CROP RESILIENCE AND MANAGEMENT	Navya Beera, Dorin Gupta, Rebecca Ford, Prabhakaran Sambasivam, Garry M Rosewarne
S6.9	GENETIC VARIABILITY AND KEY ADAPTIVE TRAITS IN <i>TRIFOLIUM GLOMERATUM</i> AND <i>TRIFOLIUM CHERLERI</i> FOR PASTURE IMPROVEMENT	Teresa Carita, Graça Pereira
S6.10	HIGH-THROUGHPUT PHENOTYPING AT THE SCALE OF A PEA BREEDING PROGRAM USING UAV-BASED IMAGING	Alexis Comar, Florian Barthès, Pauline Lafage, Delpierot Augustin, Thierry Bebin, Ellen Dugué-Goudemand, Gaetan Touzy, David Gouache, Nicolas Bras, Léa Cabrol, Jérémy Labrosse, Renaud Rincet
S6.11	GENETIC MAPPING OF VERNALIZATION-INSENSITIVE AND PHOTOPERIOD-INDEPENDENT FLOWERING IN YELLOW LUPIN (<i>LUPINUS LUTEUS</i> L.)	Ishani Dogra, Allen Paul, Anna Surma, Sandra Rychel Bielska, Bartosz Kozak, Michał Książkiewicz
S6.12	BREEDING OF PEAS IN THE CZECH REPUBLIC	Radmila Dostálová, Michaela Ludvíková, Jiří Horáček, Veronika Sedláková
S6.13	BREEDING OF LUCERNE FOR A NORDIC ENVIRONMENT	Harkingto Harkingto, Sahameh Shafiee, Nelson Nazzicari, Gunnar Klemetsdal, Stefano Zanotto, Paolo Annicchiarico, Luciano Pecetti, Eric Roy, Bernadette Julier, Petter Marum, Helga Amdahl, Åshild Ergon
S6.14	GENETIC ARCHITECTURE AND GENOMIC PREDICTION OF SEED PROTEIN CHARACTERISTICS IN MUNGBEAN	Mark Edward Fabreag, Eric Dinglasan, Arineh Tahmasian, Keren Byrne, Sally Stockwell, Michelle Colgrave, Cassandra

		Pegg, Millicent Smith, Lee Hickey, Ben Hayes
S6.15	BOOSTING EUROPEAN PHASEOLUS BREEDING IN LEGUME GENERATION	Juan Jose Ferreira, Carmen García-Fernández, Donal Murphy Bokern, Rocco Sabato, Tania Gioia, Evelin Adam, Maximilian Lanz, David Gaikpa, Ivon Rieu, Lars-Gernot Otto
S6.16	LARGE-SCALE STRUCTURAL VARIATION BETWEEN TWO COMMON BEAN GENOMES	Ana Campa, Maria Jurado-Cañas, Juan Jose Ferreira
S6.17	FROM LEGACY TO ACTION: HOW THE FERNAND LAMBEIN FUND ADVANCES GRASSPEA	Sara Fiorito, Priyanka Gupta, Lieve Ongena
S6.18	DISSECTING THE GENETIC BASIS OF RED SEED COAT COLOR IN A RECOMBINANT INBRED LINE POPULATION OF COMMON BEAN	Elisabeth Portilla-Benavides, Carmen Garcia-Fernandez, Ana Campa, Juan Jose Ferreira
S6.19	PvE1 REGULATES PHOTOPERIOD SENSITIVITY AND FLOWERING TIME ADAPTATION IN COMMON BEAN	Ana M. González, Ana M. Pesqueira, Rocío Fonseca, Sandra Bretones, Fernando J. Yuste-Lisbona, Rafael Lozano, Marta Santalla
S6.20	POWERFUL PEANUTS: EXPLORATORY BREEDING OF WILD ARACHIS SPECIES FOR OIL CONTENT AND DROUGHT TOLERANCE	Emily Green, Jim Muir, John Cason, Charles Simpson, Mauricio Erazo-Barradas, Darrel Murray
S6.21	ASSESSMENT OF GENOTYPE × ENVIRONMENT INTERACTIONS FOR GRAIN YIELD AND RELATED TRAITS IN CHICKPEA USING A MIXED MODEL APPROACH	Chafika Houasli, Boubabkar Dia Thierno
S6.22	PRELIMINARY INVESTIGATION OF FOLIAR APPLICATION OF BORON ON POLLEN VIABILITY AND DEVELOPMENT IN THE CULTIVATION OF RED CLOVER IN THE FIELD	Miglena Revalska, Mariana Radkova, Aneta Lubenova, Galina Naydenova, Anelia Iantcheva
S6.23	THE LEGUME GENERATION CLOVER INNOVATION COMMUNITY	Anelia Iantcheva, Christina Holland, Stig Uggerhøj Andersen, Jose De-Vega, Andrew Griffiths, Stephan Hartmann, Catherine Howarth, David Lloyd
S6.24	REGISTRATION OF 'KARAM', MOROCCO'S FIRST LODGING-TOLERANT LENTIL VARIETY AND EXPLORATION OF SUITABLE AGRONOMIC PRACTICES FOR MECHANICAL HARVESTING	Omar Idrissi, Abdelmonim Zeroual, Outmane Bouhlal, Kumar Agrawal
S6.25	SELECTION OF HIGH-YIELDING CHICKPEA GENOTYPES USING MULTI-ENVIRONMENT TRIALS DATA	Tawffiq Istanbuli, Sawsan Tawkaz, Outman Bouhlal, Preeti Jakhar, Aladdin Hamwiah
S6.26	IMPROVING LENTIL HERBICIDE TOLERANCE TO SUPPORT EXPANDED CHEMICAL WEED CONTROL OPTIONS FOR GROWERS IN WESTERN CANADA	Noah Jendrasheske, Krishan Shah, Mathew Marion, Ana Vargas
S6.27	GENETIC PREDICTION OF LUCERNE GERMINATION UNDER EXTREME TEMPERATURES	Bernadette Julier, Junpeng Niu, Wagdi Ghaleb, Marie Pégard
S6.28	NEW PERSPECTIVES OF POST-GWAS ANALYSES: FROM MARKERS TO CAUSAL GENES	Ivana Kaňovská, Jana Biová, Mária Škrabišová
S6.29	LEGUME GENERATION: BOOSTING LEGUME BREEDING IN EUROPE	Jasmin Karer, Johann Vollmann, Fred Eickmeyer, Sanu Arora, Elizabeth Ninou, Lars-Gernot Otto, Christina Holland, Jose de Vega, Maria Skrabisova, Ivo Rieu, Juan Jose Ferreira, Amelie Detterbeck, Donal Murphy-Bokern
S6.30	THE LEGUME HUB: EUROPE'S KNOWLEDGE PLATFORM FOR LEGUMES	Jasmin Karer, Donal Murphy-Bokern
S6.31	DEVELOPMENT OF LINKAGE MAPS FOR NARROW-LEAFED LUPIN MAPPING POPULATIONS EMIR×LAE-1 AND GRAF×AU, AND QTL MAPPING OF FLOWERING TIME, MATURITY, PLANT HEIGHT, YIELD, AND THOUSAND GRAIN WEIGHT	Michał Książkiewicz, Bartosz Kozak, Maciej Jakobina, Wojciech Bielski, Sandra Rychel-Bielska, Renata Galek
S6.32	LIMA BEAN: DEVELOPING A NEW PULSE CROP FOR CANADA	Jamie Larsen, Stephen Wragg, Eric Fedosejevs, Owen Wally

S6.33	UNDERSTANDING HISTORICAL BREEDING PROGRESS FOR MULTI-STRESS RESISTANCE IN PEA	Clément Lavaud, Camille Auneau, Henri Miteul, Muriel Thomasset, Arnaud Remay, Angélique Lesné, Isabelle Glory, Anne Moussart, Martine Leflon, Grégoire Aubert, Marie-Laure Pilet-Nayel
S6.34	IDENTIFYING COMMON BEAN YIELD-RELATED GENOMIC REGIONS USING UNDEREXPLORED PORTUGUESE GERMPLASM DIVERSITY	Guilherme Leitão, Susana T. Leitão, Mariana Mota, Carlota Vaz Patto
S6.35	ACCELERATING GENETIC GAIN THROUGH INCREASED RECOMBINATION	Nicholas Lester
S6.36	THE APPLICATION OF NEW MOLECULAR MARKERS IN PEA BREEDING PROGRAMME	Michaela Ludvíková, Radmila Dostálová, Jiří Horáček, Miroslav Griga
S6.37	THE APPROACH OF THE LEGUME GENERATION LENTIL INNOVATION COMMUNITY	Jasmin Karer, Ioannis Mylonas, Ulrike Lohwasser, Lars-Gernot Otto, Udo Hennenkaemper, Patrice Jeanson, Tania Gioia, Roberto Papa, Fred Eickmeyer, Ivo Rieu, Jose de Vega, Donal Murphy-Bokern, Elizabeth Ninou
S6.38	WHEN THE OFFSPRING OUTSHINES ITS ORIGINS: NONADDITIVE GENE EXPRESSION IMPACTS HETEROSIS IN SYN-1 FABA BEAN	Ashwini Mudke, Rica-Hanna Schlichtermann, Sven Weber, Sarah Schiessl Weidenweber, Rod Snowdon
S6.39	VARIABILITY IN SEED STORAGE COMPOUNDS AND MORPHOLOGICAL TRAITS IN PEA AND FABA BEAN PRESENTS OPPORTUNITIES FOR TARGETED BREEDING	Mina Nešić, Bjørn Dueholm, Åsa Grimberg, Michael Lyngkjær, René Lametsch, Cecilia Hammenhag
S6.40	PROFIT-BASED SELECTION INDEX IMPROVES MULTI-TRAIT GENETIC GAIN IN CHICKPEA	Richard Olayiwola, Ahsan Asif, Kristy Hobson, Susanne Hermes, Li Li
S6.41	GENOMIC SIGNATURES OF ARTIFICIAL SELECTION AND GENETIC EROSION IN LENTIL (<i>LENS CULINARIS</i> MEDIK.)	Salvador Osuna-Caballero, Larissa Ramsay, Kirstin Bett
S6.42	BREEDING FOR SYNERGY: ESTIMATION OF A LEGACY VALUE IN A LENTIL-WHEAT ROTATION TRIAL	Salvador Osuna-Caballero, Derek Wright, Luke Dojack, Kate Congreves, Sean Walkowiak, Curtis Pozniak, Kirstin E. Bett
S6.43	DOMESTICATION-RELATED CHANGES AT PVMYB26 IN COMMON BEAN SHED LIGHT ON THE ORIGINS OF AGRICULTURE IN THE AMERICAS	Burcu Celebioglu, Jayanta Roy, Andrew Farmer, Stephanie English, Xingyao Yu, Xiaosa Xu, Phillip McClean, Paul Gepts, Travis Parker
S6.44	YIELD AND NUTRITIONAL VALUE OF PORTUGUESE COWPEA GERMPLASM	Graca Pereira, Manuela Meneses, Teresa Carita, Ana Sofia Bagulho
S6.45	COST-EFFICIENT AND ACCURATE LEGUME VARIETY REGISTRATION AND RECOMMENDATION IN EUROPE	Marie-Laure Pilet-Nayel, Christopher Judge, Muriel Thomasset, Arnaud Remay, Anne-Sophie Poisson, Marjana Vasiljević, Vuk Djordjevic, Gaëtan Louarn, Bernadette Julier
S6.46	PERFORMANCE OF GRASSPEA (<i>LATHYRUS SATIVUS</i> L.) GERMPLASM FOR YIELD, LOW ODAP, AND FARMER-FIELD DEMONSTRATION IN NEPAL	Padam Prasad Poudel, Anil Pokhrel, Rajendra Darai, Kumar Subedi, Nirmala Khadka, Shiv Kumar Agrawal, Akanksha Singh, Surendra Barpete, Anand Chaudhary, Rajesh Chaudhary
S6.47	THE IMPORTANCE OF SAINFOIN (<i>ONOBRYCHIS SATIVA</i> LAM.) IN THE FODDER BASE IN NORTH MACEDONIA IN THE PAST AND TODAY	Tatjana Prentovikj, Biljana Ristakjovska Shirgovska
S6.48	MULTI-PARENT POPULATIONS (MPP) OF WINTER PEAS FOR ORGANIC AGRICULTURE	Ulrich Quendt
S6.49	ODAP CHARACTERIZATION OF DIVERSE GRASS PEA ACCESSIONS FROM THREE CONTINENTS BY RP-HPLC METHOD FOR FUTURE BREEDING PROSPECT AND CONSUMABILITY PREDICTION	Md. Mosiur Rahman, Quanle Xu, Md. Ruhul Quddus, Xuxiao Zong, Tao Yang, Shiv Kumar Agrawal, Ashutosh Sarker
S6.50	REDEFINING SOME AGROTECHNICAL MEASURES AND THEIR IMPACT ON ALFALFA PRODUCTIVITY	Biljana Ristakjovska Shirgovska, Tatjana Prentovikj, Zoran Dimov, Svetlana Vujić, Snežana Katanski

S6.51	CULTIVATION OF CHICKPEA ADAPTED TO RAINFALL-RICH REGION OF NORTH MORAVIA	Veronika Sedláková, Radmila Dostálová
S6.52	EVALUATING COMMON BEAN (<i>PHASEOLUS VULGARIS</i>) LANDRACES AND WILD ACCESSIONS FOR INDIRECT EFFECTS OF DOMESTICATION AND SELECTION ON ROOT ARCHITECTURE	Grace Sidberry, C. Robin Buell, K. A. Cichy, Miranda J. Haus
S6.53	EVALUATING YIELD STABILITY OF DRY PEA AND FABA BEAN IN SWEDEN UTILIZING NATIONAL MULTI-ENVIRONMENT TRIAL DATA	Lovisa Sjödin, Amanda Karlström, Bjørn Dueholm, Åsa Grimberg, Cecilia Hammenhag
S6.54	LEGUME GENERATION: THE LUPIN INNOVATION COMMUNITY LUPIC	Karolina Susek, Ulrike Lohwasser, Lars-Gernot Otto, Thomas Svobada, Elizabeth Ninou, Catherine Howarth, Jose de Vega, Ivo Rieu, Roberto Papa, Helge Flüß, Donal Murphy-Bokern, Fred Eickmeyer
S6.55	DEVELOPMENT OF HETEROTIC POOLS AND SYNTHETIC BREEDING RESOURCES IN FABA BEAN	Hanna Tietgen, Sven E. Weber, Rod Snowdon, Matthias Frisch, Amine Abbadi
S6.56	REACHING EXPERT CONSENSUS ON DEMAND-LED LEGUME BREEDING IN EUROPE: A MULTI-STAGE DELPHI STUDY	Lars Wernze, Marcus Mergenthaler
S6.57	GENETIC DIVERSITY AND BREEDING STRATEGIES OF THE "DONGSHENG" FOOD-GRADE SOYBEAN SERIES IN HEILONGJIANG, CHINA	Xindong Yao, Qiang Yang, Kun Xu, Yanhua Li
S6.58	DEVELOPING VIRUS-INDUCED GENOME EDITING (VIGE) FOR GRASSPEA AND PEA	Mairi Franklin, Peter Emmrich, Matt Downie, George Lomonossoff, Sanu Arora
S6.59	NONADDITIVE GENE EXPRESSION IMPACTS HETEROSIS IN SYNTHETIC FABA BEAN CULTIVARS	Ashwini Mudke, Sarah Schiessl Weidenweber

SESSION 7: UNDERSTANDING AND ENHANCING LEGUME CROP TOLERANCE TO ABIOTIC STRESSES

No	Title	Authors
S7.1	A CLE11B-CLE16 SIGNALING RELAY MEDIATES ROOT-SHOOT-ROOT CROSSTALK FOR DROUGHT ADAPTATION IN COMMON BEAN	Pei Xu
S7.2	ENHANCING DROUGHT RESILIENCE IN LENTILS VIA SILICON-MEDIATED OPTIMISATION OF NODULE METABOLISM	Sajitha Biju, Dorin Gupta
S7.3	DROUGHT AND HEAT STRESS IMPACT ON NECTAR PRODUCTION, POLLINATOR BEHAVIOR, AND YIELD IN FABA BEAN (<i>VICIA FABA</i> L.)	Lisa Brünjes, Marlene Krebs, Wolfgang Link
S7.4	IDENTIFICATION OF ROOT MICRORNAS INVOLVED IN DROUGHT RESILIENCE IN COWPEA	Eliana Monteiro, Inês Rebelo, Sara Gomes, Eduardo Rosa, Isaura Castro, Márcia Carvalho
S7.5	CULTIVAR SELECTION AND AGRONOMIC STRATEGIES FOR PRODUCTION OF HIGH YIELD AND HIGH PROTEIN PEAS IN DIVERSE ENVIRONMENTS	Chengci Chen, William Franck, Sooyoung Franck, Peggy Lamb, Patrick Carr, Kent McVay
S7.6	CLIMATE-SMART GRASSPEA: TRANSFORMING RICE-FALLOW SYSTEMS FOR SUSTAINABILITY	Arpita Das, Prolay Chandra Barman, Oindri Pal, Soumyayan Roy, Surendra Barpete, Shiv Kumar
S7.7	HIGH-THROUGHPUT PHENOTYPING AND GENOMIC PREDICTION OF FROST RESISTANCE TO SUPPORT AUTUMN SOWING IN PEA	Nicolò Franguelli, Nelson Nazzicari, Elisa Calastri, Paolo Annicchiarico
S7.8	INTEGRATING PHYSIOLOGICAL AND GENOMIC ANALYSES TO UNRAVEL THE BASIS OF DROUGHT TOLERANCE IN MEDITERRANEAN COMMON VETCH	Telma Fernandes, Catarina Mendes, Aleksei Zamalutdinov, Stepan Boldyrev, Cécile Ben, Laurent Gentzbittel, Susana T. Leitão, Maria Carlota Vaz Patto

S7.9	ADAPTING TO ADVERSITY: GRASSPEA'S GENETIC BLUEPRINT FOR THRIVING IN HARSH CONDITIONS	Priyanka Gupta, Outmane Bouhlal, Khawla Aloui, Zewdie Bishaw, Shiv Agrawal
S7.10	HIGH-THROUGHPUT PHENOTYPING REVEALS GENOTYPIC VARIATION IN DROUGHT RESPONSE AND WATER-USE STRATEGIES IN <i>LATHYRUS</i> SPP. UNDER PROGRESSIVE SOIL DRYING	Kamal Hejjajoui, Salma Rouichi, Nouredine El Haddad, Aziz Baidani, Michel Edmond Ghanem, Moez Amri
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S7.14	PHYSIOLOGICAL AND MOLECULAR CHARACTERIZATION OF DROUGHT TOLERANCE DURING PEA SEED GERMINATION	Denisa Konečná, Jana Balarynová, Juan Pablo Renzi, Jana Sekaninová, Jan Brus, Martina Špundová, Oldřich Trněný, Petr Smýkal
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S7.17	EFFECT OF ACUTE HEAT STRESS DURING POD FILLING ON SEED END-USER AND NUTRITIONAL TRAITS OF LENTIL	Minhao Li, Joe Panozzo, Garry Rosewarne, Cassandra Walker, Hafiz Suleria, Sukhjiwan Kaur
S7.18	COMMON BEAN BIOFORTIFIED EXPERIMENTAL AND COMMERCIAL ACCESSIONS ANALYSIS TO PROMOTE FOOD SECURITY IN THE CONTEXT OF CLIMATE VARIATION: MORPHO-AGRONOMIC OVERVIEW AND WATER DEFICIENCY RESPONSE	Alessia Losa, Tea Sala, Luisa Ferrari, Eleonora Cominelli, Francesca Sparvoli, Emanuela Camilli, Marika Ferrari, Cinzia Le donne, Silvia Lisciani, Stefania Marconi, Juan Vorster, Karl Kunert, Diana Marais, Emmanuelle Reboul, Katherine Alvarado-Ramos, Boaz Waswa, Valerio Gipli, Francisco Aragao, Elena Avite
S7.19	ADAPTATION OF SPRING FABA BEAN TO HEAT AND DROUGHT STRESS: PHYSIOLOGICAL AND ROOT TRAIT RESPONSES	Manar Makhoul, Celine Huber, Hannah Klingelhöfer, Klara-Sophie Best, Justine Schmandt, Lennart Scheer, Hanna Tietgen, Lisa Brünjes, Sarah Schießl-Weidenweber
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S7.21	DROUGHT ALTERS JASMONATE-DEPENDENT REGULATION OF ANTHUR DEVELOPMENT IN YELLOW LUPIN (<i>LUPINUS LUTEUS</i> L.)	Katarzyna Marciniak, Krzysztof Przedniczek, Jacek Kęsy, Andrzej Tretyn
S7.22	THE EFFECT OF MOISTURE DEFICIT ON FIELD BEAN (<i>VICIA FABA</i> L.)	Lea Narits, Ilmar Tamm, Merko Kärp
S7.23	FOLIAR SILICON APPLICATION ENHANCES DROUGHT RESILIENCE IN LENTILS	Olajumoke Ogedengbe, Dorin Gupta, James Hunt, Alexis Pang, Hafiz Suleria
S7.24	IN VIVO VISUALIZATION OF ROS FORMATION IN PEA SEEDS DURING IMBIBITION	Marek Rác, Martinan Špundová, Markéta Dokoupilová, Denisa Konečná, Jana Balarynová, Zuzana Kučerová, Petr Smýkal
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S7.26	IMPROVING LEGUME STRESS RESILIENCE: FUNCTIONAL ANALYSIS OF THE AUXIN INFLUX CARRIER MTLAX3 UNDER SALT AND DROUGHT CONDITIONS	Miglena Revalska, Lyuben Zagorchev, Denitsa Teofanova, Martin Savov, Tatyana Todorova, Mariana Radkova, Anelia Iantcheva

S7.27	STRENGTHENING THE EUROPEAN COMMON BEAN VARIETAL PORTFOLIO: MULTI-ENVIRONMENT ANALYSIS OF YIELD PERFORMANCE AND STABILITY	Rocco Sabato, Stefania Marzario, Giuseppina Logozzo, Valeria Morante, Carmen Verrastro, Gerardo Pio Placido, Juan Jose Ferreira, Eveline Adam, Ana Campa, Valerio Di Vittori, David Gaikpa, Lars-Gernot Otto, Patrice Jeanson, Otto Klaus Oldach, Roberto Papa, Ivo Rieu, Gerthon van de Bunt, Donal Murphy-Bokern, Tania Gioia
S7.28	PRIMING OF PEA SEEDS WITH H ₂ O ₂ AND NO IMPROVES GERMINATION AND PLANT GROWTH	Tereza Severinová, Jana Sekaninová, Jana Balarynová, Marek Petřivalský, Petr Smýkal
S7.29	PEA FROST TOLERANCE : COMPARISON OF FIELD AND CONTROLLED CONDITIONS EVALUATIONS	Adrien Sonnet, Nicolo Franguelli, Benoit Decaux, Maëlys Cazier, Hortense Waymel, Eric Hanocq, Bruno Delbreil, Paolo Annicchiarico, Isabelle Lejeune-Henaut
S7.30	EFFECTS OF REDUCED WATER AVAILABILITY ON IMBIBITION AND GERMINATION IN DIFFERENT PEA GENOTYPES ASSESSED BY SEED WATER POTENTIAL AND CHLOROPHYLL FLUORESCENCE	Martina Špundová, Markéta Dokoupilová, Denisa Konečná ² , Jana Balarynová, Marek Rác, Zuzana Kučerová, Petr Smýkal
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S7.32	TEMPORAL TRANSCRIPTOMICS DETERMINES GRAIN YIELD AND PROTEIN CONCENTRATION UNDER INDEPENDENT AND COMBINED HEAT AND DROUGHT IN <i>VICIA FABA</i>	Louise Walker, Kim Johnson, Pankaj Maharjan, Regine Stockmann, Nathaniel Jewell, Chris Brien, Bettina Berger, Marisa Collins
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S7.35	INTERACTION BETWEEN NITROGEN NUTRITION MODE AND SOIL WATER AVAILABILITY SHAPES AQUAPORIN EXPRESSION AND ROOT WATER UPTAKE IN PEA	Meng Zhu, Vanessa Vernoud, Bertrand Ducos, Romain Barnard, Christian Jeudy, Jonathan Kreplak, Nadia Rossin, Aude Tixier, Marion Prudent
S7.36	MOTHER OF FT AND TFL1 – A REGULATOR OF SEED GERMINATION UNDER ADVERSE ENVIRONMENTAL CONDITIONS IN <i>MEDICAGO TRUNCATULA</i>	Maciej Nowak, Aleksandra Pawela, Miłosz Ruszkowski, Michał Jasiński, Joanna Banasiak
S7.37	COMPARATIVE TRANSCRIPTOMIC ANALYSIS IN DEVELOPING SEEDS OF CULTIVATED AND WILD LENTILS (<i>LENS</i> SP.) SUBJECTED TO WATER STRESS	Andrea Fernandez-Gutierrez, Alvaro Rodriguez-Torres, Juan Gutierrez-Gonzalez
S7.38	CROSS-SPECIES TRANSCRIPTOMICS UNRAVELS ROOT DROUGHT RESPONSES IN FABA BEAN AND MAIZE	Kübra Arslan, Dagmar van Dusschoten, Agnieszka Golicz, Silvia Zanini

SESSION 8: UNDERSTANDING AND ENHANCING LEGUME CROP TOLERANCE TO BIOTIC STRESSES

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S8.1	INTERACTIONS BETWEEN FABA BEAN AND ITS BOTRYTIS PATHOGENS	Maniruzzaman Maniruzzaman, Hamid Khazaei, Marja Jalli, Minna Haapalainen, Alan Schulman, Frederick Stoddard
S8.2	DEVELOPMENT OF ADVANCED LENTIL LINES WITH PARTIAL RESISTANCE AGAINST COLLETOTRICHUM LENTIS (RACE 0) CAUSING ANTHRACNOSE	Sarahi Viscarra, Sabine Banniza, Ana Vargas
S8.3	INTEGRATING FIELD MANAGEMENT AND PHENOTYPIC INSIGHTS TO ENHANCE RESILIENCE AND PRODUCTIVITY IN MEDITERRANEAN LEGUMES	Demosthenis Chachalis, Ageliki Petraki, Athina Motsenigou, Dimitrios Vlotsos, Nikolina Vidali

S8.4	ELUSIVE YET REDUNDANT: NEW DEVELOPMENTS TOWARD IDENTIFICATION OF RESISTANCE GENES TO <i>PHYTOPHTHORA SOJAE</i> (RPS) IN SOYBEAN	Yanick Asselin, Adèle Deshaies, Caroline Labbé, François Belzile, Richard Bélanger
S8.5	UNCOVERING IN-FIELD DYNAMICS, FITNESS AND HOST-MEDIATED ADAPTATION OF A CLONAL <i>ASCOCHYTA RABIEI</i> FIELD POPULATION	Hayley Wilson, Ido Bar, Kristy Hobson, Niloofar Vaghefi, Rebecca Ford
S8.6	GENETIC DISSECTION OF RESISTANCE TO THE PEA APHID IN <i>PISUM</i> SPP.: IDENTIFICATION OF NOVEL RESISTANCE SOURCES AND ASSOCIATED GENOMIC REGIONS	Maria Claudia López-Orozco, Diego Rubiales, Eleonora Barilli
S8.7	MAPPING QUANTITATIVE TRAIT LOCI ASSOCIATED WITH <i>APHANOMYCES EUTEICHES</i> AND <i>FUSARIUM AVENACEUM</i> ROOT ROT RESISTANCE IN AN INTERSPECIFIC <i>LENS ORIENTALIS</i> AND <i>LENS CULINARIS</i> MULTI-PARENT POPULATION	Kelsey Boucher, Sabine Banniza, Kirstin Bett
S8.8	CHARACTERIZATION OF THE LENTIL DIVERSITY PANEL FOR RESISTANCE TO <i>FUSARIUM</i> ROOT ROT	Taylor de Jong, Rahul Chandnani, Sabine Banniza, Kirstin Bett, Ana Vargas
S8.9	TRANSCRIPTOMIC AND METABOLOMIC ANALYSIS REVEALS THAT NITROGEN-FIXING SYMBIOSIS INDUCES VARIABLE DEFENCE AGAINST APHIDS IN DIFFERENT PEA GENOTYPES	Victoria Faivre
S8.10	GENOME-WIDE ASSOCIATION STUDIES IDENTIFY DISTINCT BEAN LOCI CONTRIBUTING TO RESISTANCE TO <i>ACYRTHOSIPHON PISUM</i> AND <i>APHIS FABAE</i>	Paul Fremaux, Maïwenn Le Floch, Isabelle Glory, Angélique Lesné, Jonathan Kreplak, Fabrice Legeai, Romuald Cloteau, Gaëtan Denis, Jean-Bernard Magnin-Robert, Jean-Christophe Simon, Marie-Laure Pilet-Nayel, Marc Galland, Akiko Sugio
S8.11	REFERENCE GENOME ASSEMBLY FOR <i>ASCOCHYTA LENTIS</i> VAR. <i>LATHYRI</i> , THE <i>ASCOCHYTA</i> BLIGHT PATHOGEN OF <i>LATHYRUS</i>	Bernadette Henares, Johannes Debler, Hediye Tahghighi, Lars Kamphuis
S8.12	DECIPHERING GENETIC ELEMENTS INVOLVED IN PATHOGENICITY AND VIRULENCE OF <i>FUSARIUM</i> STRAINS ON PEA USING COMPARATIVE GENOMICS AND PHENOTYPIC SCREENINGS	Tomas Hoogendam, Fredrik Dörfors, Vahideh Rafiei, Katarzyna Marzec-Schmidt, Mukesh Dubey, Magnus Karlsson
S8.13	ECTOPARASITIC NEMATODES: IMPACTS AND REPRODUCTION ON CHICKPEA	Michelle Hubbard, Mario Tenuta, Fernanda Gouvea Pereira, Victoria Marchesini, Luc Bruuselma, Shuan Sharpe, Zakir Hossain, Lana Shaw, Sarah Anderson, Jennifer Town, Jeff Schoenau, Liang Li, Shuang Zhao
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S8.15	INTEGRATED APPROACH TO STUDY LEGUME FATIGUE IN PEA: PATHOGENS, SOIL MICROBIOME, AND RESISTANCE SOURCES	Julia Jacobi, Janine König, Holger Zetzsche, Andreas Stahl
S8.16	PATHOTYPE SHIFTS IN <i>ASCOCHYTA LENTIS</i> AND IMPLICATIONS FOR LENTIL RESISTANCE IN SOUTH AUSTRALIA	Mohsen Khani, Marzena Krysinska-Kaczmarek, Michelle Russ, Kul Adhikari, Hari Dadu
S8.17	ASSESSING VIRULENCE AND PATHOGENICITY OF <i>MACROPHOMINA PHASEOLINA</i> ISOLATES ON DRY BEAN (<i>PHASEOLUS VULGARIS</i>) UNDER CONTROLLED CONDITIONS IN WESTERN CANADA	Yong Min Kim, Ahmed Abdelmagid, Anfu Hou, Owen Wally
S8.18	GENETIC MAPPING OF RESISTANCE TO <i>CERCOSPORA</i> LEAF SPOT IN FENUGREEK (<i>TRIGONELLA FOENUM-GRÆCUM</i> L.)	Ethan Kish
S8.19	DIVERSITY FOR RESISTANCE TO THE BLACK BEAN APHID IN OLD AND RECENT FABA BEAN VARIETIES	Maïwenn Le Floch, Isabelle Glory, Angélique Lesné, Stéphanie Morlière, Liliya Shveda, Claudine Razanaboahirana, Laurine Piquemal, Gaëtan Denis, Paul Fremaux, Jean-Philippe

		Rivière, Marc Galland, Marie-Laure Pilet-Nayel, Clément Lavaud, Akiko Sugio
S8.20	INTER- AND INTRASPECIFIC CROSSES FOR THE CHARACTERIZATION OF THE GENETIC DETERMINANTS OF PEA APHID RESISTANCE IN WILD PEAS	Angélique Lesné, Isabelle Glory, Maïwenn Le Floch, Laurine Piquemal, Marie-Laure Pilet-Nayel, Akiko Sugio, Marc Galland
S8.21	DISCOVERY AND FUNCTIONAL CHARACTERISATION OF NOVEL EFFECTOR GENES IN THE CHICKPEA BLIGHT PATHOGEN <i>ASCOCHYTA RABIEI</i>	Mahmuda Binte Monsur, Ido Bar, Rebecca Ford
S8.22	ELUCIDATING THE MOLECULAR BASIS OF RESISTANCE AGAINST CHOCOLATE SPOT IN FABA BEANS	Ana Priscilla Montenegro Alonso, Sabine Banniza, Ana Vargas
S8.23	RECENT SHIFTS IN FOLIAR DISEASE PATTERNS IN WINTER PEA IN FRANCE	Anne Moussart, Blandine Bamme, Coralie Brier
S8.24	EFFECTS OF MIXED VIRUS INFECTION ON GROWTH, NODULATION, AND VECTOR TRANSMISSION IN PEA (<i>PISUM SATIVUM</i>)	Aqsa Naeem, Dinesh Babu Paudel, Sean Prager
S8.25	PINPOINTING CANDIDATE GENES IN A QUANTITATIVE TRAIT LOCUS ASSOCIATED WITH RESISTANCE TO BACTERIAL BROWN SPOT IN ADZUKI BEAN	Ujomonigho Omoregie, K. Peter Pauls
S8.26	CHARACTERISATION OF GENOTYPIC VARIABILITY OF FABA BEAN RESISTANCE TO BRUCHUS RUFIMANUS BY STUDYING THE NUMBER OF EGGS ON PODS, THE EGG-TO-ADULT RATIO, AND THE SEED INFESTATION RATE	Théo Paris, Jean-Bernard Magnin-Robert, Benoit Berteloot, Hervé Houtin, Anthony Klein, Jean-Michel Carteret, Valérie Dufayet, Pascal Marget, Nadim Tayeh
S8.27	GENOTYPE- AND TIME-DEPENDENT TRANSCRIPTOMIC RESPONSE OF WHITE LUPIN (<i>LUPINUS ALBUS</i> L.) IN RESPONSE TO COLLETOTRICHUM LUPINI INFECTION	András Patyi, Michael Schneider, Christine Arncken, Wojciech Bielski, Witold Irzykowski, Malgorzata Jędrzycka, Joanna Kaczmarek, Sandra Rychel-Bielska, Anna Surma, Michał Książkiewicz, Mariateresa Lazzaro
S8.28	DEVELOPMENT AND VALIDATION OF KASP MARKER TO IDENTIFY PEA SEED-BORNE MOSAIC VIRUS RESISTANCE IN LENTIL	Giri Raj Paudel
S8.29	TRANSCRIPTOMIC ANALYSIS OF PHASEOLUS VULGARIS L RESPONSES TO XANTHOMONAS PHASEOLI PV. PHASEOLI INFECTION	Mylene Corzo-Lopez, Andy García Gonzalez, K. Peter Pauls
S8.30	EVALUATION OF A COWPEA MINICORE COLLECTION FOR BRUCHID (<i>CALLOSOBRUCHUS MACULATUS</i>) RESISTANCE	Carlos Polanco, Ana Isabel González, María Muñoz-Amatriaín
S8.31	UNDERSTANDING AND IMPROVING RESISTANCE OF FABA BEANS TO LEGUME FATIGUE PATHOGENS	Anne Richter, Albrecht Serfling, Andreas Stahl
S8.32	<i>APHANOMYCES EUTEICHES</i> CAUSES DISEASE IN <i>LATHYRUS SATIVUS</i> WITH A GLOBALLY DIVERSE, POLYGENIC RESISTANCE LANDSCAPE	Sara Rodriguez-Mena, Mario Gónzales, Carmen Santos, Diego Rubiales, Maria Carlota Vaz Patto
S8.33	BULKED SEGREGANT ANALYSIS IDENTIFIES A MAJOR GENOMIC REGION FOR ROOT-KNOT NEMATODE RESISTANCE IN COMMON BEAN	Ana M. Pesqueira, Juan Emilio Palomares-Rius, Fernando J. Yuste-Lisbona, Ricardo Lebrón, Ana M. González, Ana García-Velázquez, Teresa Barragán-Lozano, Rafael Lozano, Marta Santalla
S8.34	IDENTIFYING GENOMIC DIVERSITY AMONGST SCLEROTINIA SCLEROTIORUM ISOLATES: A STEPPING STONE TOWARDS IMPROVED WHITE MOLD BREEDING	Marysia Zaleski-Cox, Valerio Hoyos-Villegas, Tanya Copley, Lone Buchwaldt, Syama Chatterton, Mark Derbyshire
S8.35	PLANT AND APHID GENOTYPES MODULATE LEGUME RHIZOBIUM-INDUCED DEFENSE AGAINST APHIDS	Eric Boncompagni, Gaurav Pandharikar, Jean-Luc Gatti, Hugo Mathe-Hubert, Jean-Christophe Simon, Pierre Frendo, Marylène Poirié

SESSION 9: HIGH-THROUGHPUT PHENOTYPING

No	Title	Authors
S9.1	UTILIZING HYPERSPECTRAL IMAGES AND MACHINE LEARNING TO DIFFERENTIATE HYBRID PROGENY IN FABA BEAN	Rica-Hanna Schlichtermann, Sebastian Warnemünde, Hanna Tietgen, Gregor Welna, Andreas Stahl, Benjamin Wittkop, Rod Snowdon
S9.2	FROM PLATES TO REAL-TIME DATA: A FASTER WORKFLOW FOR SCREENING PLANT-DERIVED ANTIBACTERIAL COMPOUNDS	Connie Jennings Melchjorsen, Aviaja Amtoft Aagaard, Peter Lüttke Jordadal, Sander Sieuwerts, Svend Dam
S9.3	BOOSTING INNOVATION IN EUROPEAN SOYBEAN BREEDING	Maria Skrabisova, Donal Murphy Bokern, Anelia Iancheva, Claude-Alain Bétrix, Małgorzata Niewińska, Klaus Oldach, Roman Ferrant, Amandine Gras, Maria Bernhart, Volker Hahn, Johann Vollmann
S9.4	EGYPTIAN FABA BEAN VARIETIES SHOW SUPERIOR ROOT ARCHITECTURE: A NOVEL RHIZOTRON DROUGHT STRESS PROTOCOL WITH AUTOMATED IMAGE ANALYSIS	Charlotte Häuser, Sarah Schiessl
S9.5	PHENO-MA HIGH THROUGHPUT PHENOTYPING PLATFORM FOR ADVANCING LEGUME BREEDING UNDER CLIMATE CHANGE	Moez Amri, Salma Rouichi, Kamal Hejjoui, Noureddine El-Haddad, Hiba Khey, Géofroid Lonmadon, Youness En-nahli, Hasnae Choukri, Asma Tika, Michel Edmond Ghanem
S9.6	COMBINING LIGHT-INDUCED FLUORESCENCE TRANSIENTS, CANOPY TEMPERATURE AND MULTISPECTRAL REFLECTANCE TIME SERIES WITH GENETIC MARKER DATA TO IDENTIFY PHOTOSYNTHETICALLY EFFICIENT PEA GENOTYPES AND ASSOCIATED CAUSAL ALLELES	Nicolin Caffisch, Corina Oppliger, Andreas Hund, Onno Muller, Achim Walter, Beat Keller
S9.7	NODULENS: A COMPUTER-VISION PIPELINE FOR NODULE DETECTION IN LENTILS	Luke Dojack, Tzu-Ling Liu, Ana Vargas, Kirstin Bett, Steve Shirliffe, Ian Stavness
S9.8	QUANTIFICATION OF ROOT BIOMASS IN LUPIN-OAT MIXED INTERCROPPING SYSTEMS BY FTIR SPECTROSCOPY	Els Heyrman, Greet Verlinden, Kevin Dewitte, Laura Leimbrock, Sofie Landschoot, Steven Maenhout, Steven Sleutel
S9.9	EFFECTS OF SEED DETERIORATION ON THE PHENOTYPE OF COMMON BEAN SEEDLINGS	Tomislav Javornik, Monika Vidak, Klaudija Carović-Stanko, Boris Lazarević, Milan Poljak
S9.10	AI-DRIVEN HIGH THROUGHPUT NODULE PHENOTYPING TO ACCELERATE IMPROVEMENT OF SYMBIOTIC NITROGEN FIXATION IN MUNGBEAN	Hamza Ramzan, Estelle Grundy, Will Shaffer, Millicent Smith, Lee Hickey, Michael Udvardi
S9.11	EFFECT OF MAXIMUM CANOPY COVER DURATION DERIVED FROM UAV IMAGING ON SOYBEAN YIELD	Predrag Randelović, Vuk Đorđević, Jegor Miladinović, Marina Čeran, Simona Bukonja, Vojin Đukić, Marjana Vasiljević
S9.12	BELOWGROUND DIVERSITY IN PEA: BRIDGING ROOT PHENOTYPES AND DROUGHT TOLERANCE	Roberta Rossi, Marion Prudent, Christian Jeudy, Tommaso Notario, Paloma Veyland, Mickael Lamboeuf, Paolo Annicchiarico
S9.13	EXPLORING THE RELATIONSHIP BETWEEN ENVIRONMENTAL ORIGIN, PHYLOGENETIC RELATEDNESS AND ROOT SYSTEM ARCHITECTURE (RSA) IN WILD LENTIL SPECIES	Salma Rouichi, Moez Amri, Michel Edmond Ghanem, Romain Fernandez, Alain Audebert
S9.14	USING UAV-DERIVED CANOPY VOLUME TO DIGITIZE HARVEST INDEX IN COMMON BEAN	Quinn Sturby, Kirstin Bett
S9.15	FROM PIXELS TO TRAITS – MAPPING LENTIL SEED COAT COLORS WITH DIGITAL PHENOTYPING	Derek Wright, Zhe Cao, Didier Socquet-Juglard, Kirstin Bett
S9.16	PHENOMICS-ENABLED DISSECTION OF DROUGHT RESPONSES IN A FABA BEAN RECOMBINANT INBRED LINE POPULATION	Marta Maluk, Fraser Macfarlane, Dominic Williams, Ruixian Han, Simon Pont, Pietro Iannetta, Derek Stewart, Raul Huertas

SESSION 10: CROP MODELLING TO PREDICT YIELD, DISEASE AND OTHER TRAITS

No	Title	Authors
S10.1	A STEPWISE APPROACH TO IDENTIFY AND RANK YIELD-LIMITING FACTORS OF SOYBEAN IN TEMPERATE CLIMATES FROM ON-FARM DATA	Noé Kavoukdjian-Detot, Julie Constantin, H����� Tribouillois
S10.2	IDENTIFYING LIMITING FACTORS FOR GRAIN LEGUME CROPS YIELD IN FRANCE	V�������� Biarnes, Annabelle Larmure, Marion Prudent, Pierre Maury
S10.3	REGIONAL PROJECTION OF WINTER FROST RISK ON PEA CROP DUE TO WARMING IN A TEMPERATE CLIMATE	Annabelle Larmure, Yves Richard, Isabelle Lejeune-H�����, Thierry Castel
S10.4	UAV-BASED SPECTRAL INDICES AND RANDOM FOREST REGRESSION FOR PLOT-LEVEL SOYBEAN GRAIN YIELD PREDICTION IN TWO RIL POPULATIONS	Miroslav Bukan, Luka Ivkovi��, Hrvoje ��������, Jerko Gunja���, Predrag Randelovi��, Hrvoje Kutnjak, Ivan Peji��
S10.5	EVALUATION OF THE AZODYN-PEA CROP MODEL, A TOOL TO STUDY PEA ADAPTATION STRATEGIES TO CLIMATE CHANGE	Abdourahmane Diallo, Marion Prudent, V�������� Biarnes, Eric Cassellas, Ronan Tr�����, Walid Horrigue, Annabelle Larmure

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