

# XV INTERNATIONAL LUPIN CONFERENCE 2019

## ORAL PRESENTATIONS PROGRAM

March 18 (Monday)

### LLALLAGUANI ROOM

#### Session 1. Food, feed and non-food uses

Time	Title	Authors (presenter)
11:00 – 11:15	DESIGN AND ELABORATION OF A HEALTHY BREAD WITH INCORPORATION OF LUPIN FLOUR ( <i>Lupinus mutabilis</i> Sweet)	<u>Elena Villacrés</u> , Paúl Cueva, Cristina Rosell, Milene Díaz
11:15 – 11:30	OBTAINING A CRISPY SNACK OF LUPINE ( <i>Lupinus mutabilis</i> Sweet) BY APPLYING DIFFERENT DEHYDRATION PROCESS	<u>María Quelal</u> , Gina López, Elena Villacrés, Edwin Vera
11:30 – 11:45	DEVELOPMENT OF LUPIN-BASED YOGURT ALTERNATIVES – CHALLENGES REGARDING PROCESSING AND FERMENTATION	<u>Andrea Hickisch</u> , Ute Schweiggert-Weisz
11:45 – 12:00	MODIFICATION OF LUPIN PROTEIN ISOLATES – INFLUENCE OF ENZYMATIC HYDROLYSIS AND FERMENTATION ON CHANGES IN THE MOLECULAR WEIGHT DISTRIBUTION, TECHNOFUNCTIONAL AND SENSORY PROPERTIES	<u>Katharina Schlegel</u> , Ute Schweiggert-Weisz, Peter Eisner
12:00 – 12:15	LUPIN CELL WALL POLYSACCHARIDES –INFLUENCE OF SEQUENTIAL EXTRACTION ON THE INTERACTION WITH BILE ACIDS	<u>Susanne Naumann</u> , Ute Schweiggert-Weisz, Peter Eisner
14:45 – 15:00	CHEMICAL CHARACTERIZATION OF <i>Lupinus mutabilis</i> Sweet AND <i>Lupinus angustifolius</i> SEEDS AND OIL	<u>Repo-Carrasco-Valencia, R.</u> , Chamorro, R., Delgado, V, Ollennu-Chuasam, P., Suomela, JP.
15:00 – 15:15	DEVELOPMENT OF GLUTEN-FREE BREAD WITH QUINOA ( <i>Chenopodium quinoa</i> Willd.) AND TARWI ( <i>Lupinus mutabilis</i> Sweet) FLOURS	Julio Vidaurre-Ruiz, Genny Luna-Mercado, Regine Schonlechner, Ritva Repo-Carrasco-Valencia
15:15 – 15:30	NUTRITIONAL CHANGES IN ANDEAN LUPIN ( <i>Lupinus mutabilis</i> ) AFTER PROCESSING	Javier S. Córdova-Ramos, <u>Patricia Glorio Paulet</u> , Andrea Brandolini, Alyssa Hidalgo
16:00 – 16:15	INFLUENCE OF TARWI ( <i>Lupinus mutabilis</i> Sweet) HUSK FIBER ON BREAD MOLD TEXTURE DURING STORAGE	<u>Sumire-Quenta Daniel</u> ; Glorio-Paulet Patricia; Repo-Carrasco Ritva; Silva-Paz Reynaldo; Camarena Felix
16:15 – 16:30	<i>Lupinus mutabilis</i> SWEET (TARWI) CONSUMPTION IN THE PERUVIAN MARKET: CHALLENGES AND THREATS	<u>Rendón Schneir Eric</u> , Camarena Mayta Felix, Mostacero Elvia, Huaranga Amelia

**March 19 (Tuesday)**

**LLALLAGUANI ROOM**

**Session 1. Food, feed and non-food uses**

Time	Title	Authors (presenter)
09:15 – 09:30	PROTEIN CONCENTRATES AND ISOLATES FROM LUPIN CULTIVARS ( <i>Lupinus mutabilis</i> AND <i>Lupinus albus</i> )	<u>Carmen Carla Quiroga Ledezma</u>
09:30 – 09:45	DESAMARGADO DE TARWI ( <i>Lupinus mutabilis</i> ) ASISTIDO POR MICROONDAS Y ULTRASONIDO	<u>José Manuel Prieto</u> ; Yakelin Eliana Yucra Mamani; Olivia Magaly Luque Vilca
09:45 – 10:00	DETERMINACIÓN DE LAS PROPIEDADES FÍSICAS, QUÍMICAS Y NUTRICIONALES DE HARINA INSTANTÁNEA DE TARWI ( <i>Lupinus mutabilis</i> Sweet)	Evelyn Tintaya, <u>Carmen Apaza</u> , Enrique Mamani

**Session 2. Taxonomy, Biodiversity & Agroecology**

Time	Title	Authors (presenter)
14:00 – 14:15	SPECIES REVIEW OF <i>LUPINUS</i> GROWING IN BOLIVIA	<u>Ana María Planchuelo</u>
14:15 – 14:30	TOWARDS A ROBUST SYSTEM FOR THE TAXONOMY OF MEXICAN LUPINS: A COMPARATIVE MORPHOANATOMIC STUDY	Aurora Isabel Cantor del Angel, Arianna Michelle Hernández Sánchez, María Concepción Guzmán Ramos, Estela Sandoval Zapotitla, <u>Kalina Bermúdez Torres</u>
14:30 – 14:45	BIODIVERSITY OF THE <i>Lupinus</i> GENUS IN LOS ANDES	Mario E. Tapia
14:45 – 15:00	IDENTIFICACIÓN DE PADRES DONANTES DE GENES PARA PRECOCIDAD Y MADURACIÓN UNIFORME EN EL BANCO DE GERMOPLASMA DE <i>Lupinus mutabilis</i> Sweet DE ECUADOR	<u>Laura Vega</u> , Nelson Mazón, Ángel Murillo, Diego Rodríguez
15:00 – 15:15	USO DE ECOTIPOS SILVESTRES DE LUPINUS EN LA RECUPERACIÓN DE SUELOS DEGRADADOS	<u>Alejandro Bonifacio</u>

**Session 3. Genetics, Genomics, Molecular Breeding & Biochemistry**

Time	Title	Authors (presenter)
15:15 – 15:30	GENOMIC SELECTION IN WHITE LUPIN	<u>Paolo Annicchiarico</u> , Nelson Nazzicari, Barbara Ferrari
15:30 – 15:45	<i>Lupinus luteus</i> BREEDING IN CHILE: AN OPPORTUNITY FOR SUSTAINABLE AGRICULTURE AND THE DEVELOPMENT OF NEW PRODUCTS FOR HEALTHY FOOD AND FEED INDUSTRIES	Nicole Lichtin Schythe, Annally Rupayan Riquelme, Fernando Westermeyer Figueroa, Bradley Till and <u>Haroldo Salvo-Garrido</u>
15:45 – 16:00	LUPIBREED: IMPROVING NARROW-LEAFED LUPIN – NOVEL GENETIC RESOURCES FOR HIGHER YIELD AND YIELD STABILITY PART I: YIELD POTENTIAL AND YIELD STABILITY	<u>Helge Flüß</u> , Steffen R. Roux, Kristin Fischer, Hans Ulrich Jürgens, Regine Dietrich, Ulrike Lohwasser

16:15 – 16:30	LUPIBREED - FROM BREEDING RESEARCH TO NEW CULTIVARS IN GERMANY PART II: PROTEIN AND ALKALOID CONTENT	<u>Anne Zaar</u> , Hans-Ulrich Jürgens, Gisela Jansen, Sylvia Seddig, Ulrike Lohwasser, Regine Dieterich, Steffen Roux, Brigitte Ruge-Wehling
16:30 – 16:45	QUINOLIZIDINE ALKALOID BIOSYNTHESIS: INSIGHTS FROM TRANSCRIPTOME ANALYSES (RNASeq)	<u>Michael Wink</u>
16:45 – 17:00	QUINOLIZIDINE ALKALOIDS IN <i>LUPINUS</i> : WHEN AND HOW ARE THEY SYNTHESIZED?	Astrid Pamela Ramírez Betancourt, Arianna Michelle Hernández Sánchez, Macdiel Emilio Acevedo Quiroz, Guadalupe Salcedo Morales, <u>Kalina Bermúdez Torres</u>
17:00 – 17:15	OBTAINING SIMILAR PHENOTYPES TO THE DOMESTICATED TARWI FROM ITS WILD RELATIVES	<u>Alejandro Bonifacio</u> , Miriam Alcon
17:15 – 17:30	NUEVOS CULTIVARES DE TARWI ( <i>Lupinus mutabilis</i> Sweet) OBTENIDOS POR SELECCIÓN MASAL ESTRATIFICADA	Juan Vallejos, <u>Julio Gabriel</u> , Ada Angulo, Pablo Mamani, Ximena Cadima

#### Session 4: Agronomy, Farming

Time	Title	Authors (presenter)
17:30 – 17:45	POTENTIAL FOR LUPINS IN RELATION TO OTHER GRAIN LEGUMES AS A SOURCE OF PLANT PROTEIN FOR HUMAN CONSUMPTION	<u>U. Prins</u> , W.J.M. Cuijpers
17:45 – 18:00	EVALUATION OF TARWI ( <i>Lupinus mutabilis</i> SWEET) ADAPTABILITY TO CULTIVATION UNDER MEDITERRANEAN CLIMATE CONDITIONS	Norberto Guilengue, Sofia Alves, Pedro Talhinas, <u>João Neves-Martins</u>
18:00 – 18:15	INVESTIGATION OF THE RELATIONSHIP BETWEEN THE LEVEL OF ALKALOIDS AND DEGREE OF PEST DAMAGE IN <i>Lupinus polyphyllus</i> LINDL	Boguslav Kurlovich , Gavin Loxton, <u>David Mc Naughton</u>

## ANGOSTURA ROOM

### Session 4. Agronomy, Farming

Time	Title	Authors (presenter)
14:00 – 14:15	LUPIN A POTENTIAL CROP SPECIES FOR PLANT-BASED PROTEIN FOOD FOR DENMARK	<u>Gabriela Alandia</u>
14:15 – 14:30	PRODUCTION AND MARKETING MODEL FOR SWEET LUPIN IN CHILE	<u>Ricardo Agustín Anríquez Lara</u>
14:30 – 14:45	EL CHOCHO ( <i>Lupinus mutabilis</i> Sweet) EN ECUADOR: ESTRATEGIA DEL INIAP PARA EL FOMENTO DE LA PRODUCCIÓN Y EL CONSUMO	<u>Nelson Mazón</u> , Elena Villacrés, Ángel Murillo, Diego Rodríguez, Laura Vega
14:45 – 15:00	STRATEGIES FOR THE INTEGRATED MANAGEMENT OF 'CHOCHO' ( <i>LUPINUS MUTABILIS</i> ) PESTS IN SOCIO-ECOLOGICAL LANDSCAPES	<u>Vidal Toro</u> Diego Mina, Quentin Struelens Marco Rivera, Diego Muñoz, Andrea Guapi, Marco Vivar, Carlos Carpio, Olivier Dangles
15:00 – 15:15	THE RESEARCH ADVANCES OF THE PRODUCTIVE CHAIN OF THE LUPINE ( <i>Lupinus mutabilis</i> SWEET) IN ALLIANCES WITH PRODUCERS AND LOCAL ENTITIES IN THE PERUVIAN NORTHERN HIGHLANDS	<u>Félix Camarena Mayta</u> , Amelia Huaranga Joaquín, Elvia Mostacero de Bustillos, Patricia Glorio Paulet, Gloria Pascual Chagman, Jorge Tito
15:15 – 15:30	PHENOTYPIC EVALUATION AND PRELIMINARY YIELD OF LUPIN ECOTYPE ( <i>Lupinus mutabilis</i> Sweet) GROWN IN CARHUAZ, ANCASH	<u>Amelia Huaranga</u> , Néstor De la Cruz, Félix Camarena, Pilar Caycho, Elvia Mostacero, Miguel Patricio
15:30 – 15:45	VALIDACIÓN Y DIFUSIÓN DE ALTERNATIVAS DE MANEJO DEL CULTIVO DE CHOCHO ( <i>Lupinus mutabilis</i> Swett) EN LOCALIDADES DE LAS PROVINCIAS CHIMBORAZO Y COTOPAXI, ECUADOR	<u>Diego Rodríguez</u> , Nelson Mazón, Ángel Murillo, Laura Vega, Fausto Yumisaca
15:45 – 16:00	SELECCIÓN DE CULTIVARES NACIONALES DE TARWI ( <i>Lupinus mutabilis</i> Sweet.) POR RENDIMIENTO, PRECOCIDAD, CONTENIDO DE ACEITE Y PROTEÍNA EN PUNO, PERÚ	<u>Ángel Mujica</u> , E. Chura, J. Apaza, D. Chuquimia, G. Moscoso, E. Calandri, P. Montoya, F. Grasso, C. Guzmán
16:15 – 16:30	AGROECOLOGICAL CONDITIONS OF THE ARGENTINE PAMPAS FOR NARROW LEAF LUPIN CROPPING	<u>Andrés Carlos Ravelo</u>
16:30 – 16:45	EL CULTIVO DE TARWI ( <i>Lupinus mutabilis</i> Sweet) EN EL ALTIPLANO NORTE DE BOLIVIA: AVANCES DE INVESTIGACIÓN	<u>Hugo Bosque</u>
16:45 – 17:00	EVALUACIÓN DE DOS ESPECIES DE LUPINUS EN DIFERENTES AMBIENTES DE LAS ZONAS DE VALLES Y ALTOANDINAS DE BOLIVIA	<u>Juan Vallejos</u> , Pablo Mamani, Antonio Gandarillas
17:00 – 17:15	EFFECTO DE LA INCORPORACIÓN DE RESIDUOS DE COSECHA DE TARWI ( <i>LUPINUS MUTABILIS</i> SWEET) EN EL SISTEMA DE CULTIVOS Y LA RECUPERACIÓN DE SUELOS DE REGIONES ANDINAS SEMIÁRIDAS DE COCHABAMBA	<u>Pablo Mamani</u> ; Juan José Calisaya
17:15 – 17:30	DISEASES AFFECTING TARWI ( <i>Lupinus mutabilis</i> Sweet) CROP IN BOLIVIA	<u>Giovanna Plata</u> ; Antonio Gandarillas
17:30 – 17:45	PESTS OF TARWI AND ITS CONTROL	<u>L. Crespo</u> , A. Gandarillas, Alejandro Bonifacio, Reinaldo Quispe

March 21 (Thursday)

LLALLAGUANI ROOM

Session 5: Health benefits

Time	Title	Authors (presenter)
08:30 – 08:45	ESTIMATES OF TOTAL PHENOLICS CONTENT IN 52 GENOTYPES OF BITTER AND DEBITTERED LUPIN FLOUR ( <i>Lupinus mutabilis</i> )	Zuly Sabelino-Francia, <u>Patricia Glorio-Paulet</u> , Luis Rodriguez-Saona, Felix Camarena
08:45 – 09:00	EVALUATION OF NOCICEPTIVE TOLERANCE, TOXICITY AT REPEATED DOSE OF TARWI (LUPINUS MUTABILIS SWEET) IN ANIMALS OF EXPERIMENTATION	Gamarra-Castillo Fabricio Paúl; Chirinos-Arista Rosario del Pilar; Salazar-Granada Alberto
09:00 – 09:15	THE USE OF WHITE LUPINE AND OTHERS SEEDS AS MEDICINAL SUPPLEMENTS AT BREAKFAST TIME	<u>Ana María Planchuelo</u>
09:15 – 09:30	$\beta$ -CONGLUTIN PROTEIN FROM <i>LUPINUS ALBUS</i> IMPROVES ORAL GLUCOSE TOLERANCE IN HEALTHY RATS AND REDUCES CIRCULATING CHOLESTEROL LEVELS IN STREPTOZOTOCIN-INDUCED DIABETES	Tereso J. Guzmán, Irma Catalina Soto-Luna, Pedro M. García-López, Alma L. Martínez-Ayala, <u>Carmen M. Gurrola-Díaz</u>
09:30 – 09:45	PREVALENCE OF LUPIN SENSITIZATION IN WESTERN MEXICAN CHILDREN POPULATION	<u>Carmen Magdalena Gurrola-Díaz</u> , Gloria Estefania Aguirre-Sandoval, Guadalupe Irma Catalina Soto-Luna, Pedro Macedonio García-López, Ma. Guadalupe Alcalá-Padilla