

VII Reunión
biología
vegetal



3 al 6 de diciembre de 2012 - Pucón, Chile



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Gran Hotel Pucón
Pucón - CHILE

Organiza



Centro de Biotecnología Vegetal
Facultad de Ciencias Biológicas
Universidad Andrés Bello

Empresas Auspiciadoras





3 al 6 de Diciembre de 2012
Pucón, Chile



PROGRAM

Monday – December 3, 2012

Hotel Check-in starts at 12:00 PM – Gran Hotel Pucón Reception

11:00 - 17:00 Registration – Gran Hotel Pucón Pre Foyer

11:00 - 17:00 Poster (ODD numbered posters) & Exhibits Set up – Coñaripe Room

15:00 - 15:30 Opening Welcome – Araucanía Room

Dr. Ariel Orellana, Centro de Biotecnología Vegetal, Universidad Andrés Bello

15:30 - 16:30 Plenary Lecture I – Araucanía Room

Dr. Alan Bennett - *UNIFORM RIPENING ENCODES A GOLDEN 2-LIKE TRANSCRIPTION FACTOR REGULATING TOMATO FRUIT CHLOROPLAST DEVELOPMENT* - Department of Plant Sciences, University of California Davis, USA.

Chair: Ariel Orellana

16:30 - 17:00 Coffee Break – Ballroom Foyer

17:00 - 18:20 Oral Session I – Araucanía Room

Chairs: Lorena Norambuena and Francisca Blanco

17:00 NEW FUNCTIONAL ENDOMEMBRANE SYSTEM COMPONENTS PLAY AN IMPORTANT ROLE IN LATERAL ROOT DEVELOPMENT AND PROTEIN N-GLYCOSYLATION IN *Arabidopsis thaliana*. Carlos Rubilar, Lorena Norambuena

17:20 THE STRUCTURAL PUZZLE OF RECTIFICATION OF VOLTAGE-GATED PLANT POTASSIUM CHANNELS. Janin Riedelsberger, Wendy Gonzalez, Gonzalo Riadi, Ingo Dreyer

17:40 SORBITOL IN GRAPEVINE: CHARACTERISATION OF *VvSDL* AND *VvS6PDL*, TWO ENZYMES POTENTIALLY INVOLVED IN SORBITOL METABOLISM. Jorge Araya, Michael Handford

18:00 DIFFERENCES ON MEALINESS INCIDENCE IN EARLY AND LATE SEASON VARIETIES OF PRUNUS PERSICA AND CELL WALL MODIFICATIONS INDUCED BY POSTHARVEST TREATMENTS. Dayan Sanhueza, María Paz Covarrubias, Claudio Meneses, Rodolfo Paredes, Bruno Defilippi, Ariel Orellana, Reinaldo Campos-Vargas

20:00 - 21:30 Dinner – Gran Hotel Pucón, Calafquén Restaurant

21:30 - 23:30 Poster Session I (ODD numbered posters) – Coñaripe Room

Tuesday – December 4, 2012

7:00 - 11:30 Poster set up (EVEN numbered posters) – Coñaripe Room

7:00 - 8:45 Breakfast – Gran Hotel Pucón Calafquén Restaurant

9:00 - 10:00 Plenary Lecture II – Araucanía Room

CGR Fondap Center Conference

Dr. Marcelo Yanovsky - NOVEL FACTORS LINKING THE REGULATION OF PREmRNA SPLICING AND CIRCADIAN RHYTHMS IN ARABIDOPSIS - Fundación Instituto Leloir, Instituto de Investigaciones Bioquímicas de Buenos Aires (CONICET), Buenos Aires, Argentina.

Chair: Loreto Holuigue

10:00 - 11:20 Oral Session II – Araucanía Room

Chairs: María Laura Federico and Michael Handford

10:00 NITROGEN EFFECT ON ANTIOXIDANT CAPACITY AND PHENOLIC COMPOUNDS IN LEAVES OF Highbush BLUEBERRY GENOTYPES. Erwin Yáñez-Mansilla, Paula Cartes, Marjorie Reyes-Díaz, Alejandra Ribera, Maritza Duran-Troncoso, Walter Lobos, Miren Alberdi

10:20 METHYL JASMONATE ACTIVATES THE EXPRESSION OF ANTHOCYANIN BIOSYNTHESIS AND CELL WALL MODIFICATION GENES DURING RIPENING OF *Fragaria chiloensis* FRUIT. Cristobal Concha, Felipe Oñate, Nicolas Figueroa, Carlos R. Figueroa

10:40 TRANSCRIPTOMIC APPROACH (RNA-SEQ) REVEALS PUTATIVE BIOMARKERS ASSOCIATED TO BERRY SIZE IN TABLE GRAPES. Claudia Muñoz, Alicia Sánchez, Alex Di Genova, Alejandro Maass, Mauricio González-Agüero, Ariel Orellana, Patricio Hinrichsen

11:00 CHARACTERISATION OF THE BENEFICIAL INTERACTION BETWEEN *Arabidopsis thaliana* AND NATIVE TRICHODERMA SPECIES: FUTURE APPLICATIONS IN AGRICULTURE. Romina Almasia, Margarita Carú, Michael Handford

11:30 - 12.00 Coffee Break – Ballroom Foyer

12:00 - 13:00 Oral Session III – Araucanía Room

Chairs: Claudia Stange and Erwin Krauskopf

12:00 CELL WALL INVERTASE CIN1 IMPROVES WATER USE EFFICIENCY AND FRUIT YIELD UNDER SALINITY IN TOMATO. Alfonso Albacete, Dominik Grobkinsky, Michael Ghanem, Cristina Martínez-Andujar, Eric van der Graaff, Thomas Roitsch, Francisco Pérez-Alfocea

12:20 LLP, A SALICYLIC ACID-INDUCIBLE LECTIN LIKE PROTEIN FROM *Arabidopsis thaliana*, ENCODES A PLASMA MEMBRANE GLYCOPROTEIN THAT ENHANCES THE HYPERSENSITIVE RESPONSE TO *Pseudomonas syringae* AVR-RPM1. Grace Armijo, Aldo Seguel, Consuelo García, Mariela Monteoliva, Paula Salinas, María Elena Álvarez, Loreto Holuigue

12:40 PHYTOENE SYNTHASE 2 GENE (DCPSY2) OF *Daucus carota* IS FUNCTIONAL IN PLANTA AND ENHANCES TOLERANCE TO NaCl STRESS WHEN OVEREXPRESSED IN *Nicotiana Tabacum*. Orlando Acevedo, Hita Barraza, Daniela Arias, Daniel Laporte, Claudia Stange

13:15 - 14:45 Lunch – Gran Hotel Pucón Calafquén Restaurant

15:00 - 16:20 Oral Session IV – Araucanía Room
Chairs: Patricio Hinrichsen and Gabriel León

15:00 IDENTIFICATION AND CHARACTERIZATION OF POLLEN-SPECIFIC PROMOTERS IN *Arabidopsis thaliana*. Daniela Muñoz, Gabriel León

15:20 CHARACTERIZATION OF THE GENETIC DIVERSITY IN CHILEAN POPULATIONS OF CALAFATE (*Berberis microphylla* G. FORST.) Benjamín Varas, Valerie Joannon, María Herminia Castro, Claudia Mardones, Dietrich Von Baer, Patricio Hinrichsen

15:40 GENETIC DIVERSITY OF MEXICAN POPULATIONS OF *Jatropha curcas* CHARACTERIZED WITH MICROSATELLITES. Julio Magaña, Isidoro Ovando, María de Lourdes Adriano, Sonia Ruiz, José Alfredo Vázquez, Miguel Salvador

16:00 IDENTIFICATION AND FUNCTIONAL CHARACTERIZATION OF AN EAR MOTIF IN JAZ8 WHICH MEDIATES TRANSCRIPTIONAL REPRESSION OF JASMONATE RESPONSES IN ARABIDOPSIS. Pablo Figueroa, John Browse

16:30 - 17:00 Coffee Break – Ballroom Foyer

17:00 - 18:00 Technical Conference - PLANT BIOTECHNOLOGY APPLICATIONS USING ION TORRENT SEMICONDUCTOR CHIPS FOR SEQUENCING – Dr. Fernando Colbari do Amaral, Supervisor Field Applications Scientist, Genetic Systems SOLiD Systems and Ion Torrent
Chair: Claudio Meneses

18:00 - 19:00 Special Ceremony Award for Dr. Liliana Cardemil – Araucanía Room
Chair: Lorena Norambuena

20:00 - 21:30 Dinner – Gran Hotel Pucón Calafquén Restaurant

21:30 - 23:30 Poster Session II (EVEN numbered posters) – Coñaripe Room

Wednesday – December 5, 2012

7:00 - 8:45 Breakfast – Gran Hotel Pucón Calafquén Restaurant

9:00 - 10:00 Plenary Lecture III – Araucanía Room

Dr. Albert G. Abbott - THE PEACH GENOME: PERSPECTIVES ON THE DEVELOPMENT OF A MODEL FRUIT AND FOREST TREE GENOME - Albert G. Abbott - Department of Genetics and Biochemistry, Clemson University, SC, USA and UMR BFP INRA-Bordeaux, Villenave D'Ornon, France

Chair: Patricio Hinrichsen

10:00 - 11:20 Oral Session V – Araucanía Room

Chairs: Reinaldo Campos and Boris Sagredo

10:00 ELUCIDATING THE ROLE OF *BREVIS RADIX (BRX)* GENE IN ARABIDOPSIS ROOT DEVELOPMENT. Paula Salinas, Christian Hardtke

10:20 EFFECT OF OXIDATIVE STRESS ON THE VERNALIZATION RESPONSE USING SEVERAL ARABIDOPSIS ECOTYPES THAT EXPRESS THE FRI/FLC MODULE. Felipe Moraga, Gabriel León

10:40 MOLECULAR MODELING OF PLANT PROTEINS. Wendy González

11:00 CHARACTERIZATION OF ROOT TRANSCRIPTOME DYNAMICS OF PRUNUS sp. ROOTSTOCKS WITH CONTRASTING RESPONSE TO HYPOXIA. María José Arismendi, Rubén Almada, Paula Pimentel, Patricio Hinrichsen, Manuel Pinto, Alex Di Genova, Dante Travisany, Alejandro Maass, Boris Sagredo

11:30 - 12:00 Coffee Break – Ballroom Foyer

12:00 - 13:00 Oral Session VI – Araucanía Room

Chairs: Patricio Arce and Claudio Meneses

12:00 SURVIVAL, GROWTH AND PHOTOSYNTHETICAL RESPONSE TO WATERLOGGING OF FOUR SWAMP CHILEAN FOREST SPECIES. Alejandra Zúñiga-Feest, Ángela Bustos, Fernanda Alves, Vanessa Martínez, Cecilia Smith-Ramírez

12:20 PROTEOME ASSOCIATED WITH BERRY SIZE TRAIT IN TABLE GRAPES USING 1D-PAGE PROTEIN SEPARATION COUPLED TO LC/MS-MS APPROACH. Andrea Miyasaka de Almeida, Carol Moraga, Rebeca Paul, Jonathan Henríquez, Patricio Hinrichsen, Ariel Orellana

12:40 HORMONAL REGULATION OF POLAR AUXIN TRANSPORT DURING GRAPEVINE BERRY FORMATION. Nathalie Kuhn, Satyanarayana Gouthu, Laurent Deluc, Patricio Arce-Johnson

13:15 - 14:45 Lunch – Gran Hotel Pucón Calafquén Restaurant

15:00 - 16:20 Oral Session VII – Araucanía Room

Chairs: Rodrigo Gutierrez and Andrea Miyasaka de Almeida

15:00 NEW PLANT MOLECULAR BIOLOGY LABORATORY IN REGIÓN DE ARICA Y PARINACOTA, PART II. Wilson Huanca-Mamani, María Muñoz, Ester Rojas, Steffany Cárdenas, Marcelo Vargas, Elizabeth Bastías

15:20 RNA SEQ AS A TOOL TO UNVEIL THE TRANSCRIPTOME OF DIFFERENT SWEET CHERRY VARIETIES. Hector Duchens, Jonathan Maldonado, Juan Carlos Ríos, Herman Silva

15:40 “THE ROLE OF Ca²⁺ IN THE NITRATE SIGNALING PATHWAY IN *Arabidopsis thaliana* ROOTS”. Eleodoro Riveras, Carolina Osses, Karen Tamayo, Rodrigo Gutierrez

16:00 PHYSIOLOGICAL AND MORPHOLOGICAL RESPONSES OF *Prosopis chilensis* (MOL.) STUNTZ TREES UNDER SALINE STRESS EVALUATED BY A SEMI HYDROPONIC SYSTEM. Claus Westphal, Carlos Navarrete, Jaime Bravo, Cristian Ibañez

16:30-17:30 Coffee break + Organizing Committee Meeting

17:30 - 18:30 Plenary Lecture IV – Araucanía Room

Dr. José. M. Estevez - CONTROL OF SINGLE-CELL POLARIZED GROWTH BY O-GLYCOPROTEINS - Instituto de Fisiología, Biología Molecular y Neurociencias (IFIByNE-CONICET), UBA, Buenos Aires C1428EGA, Argentina

Chair: Francisca Blanco

18:45 - 19:45 Closing Ceremony, Best Oral and Poster Presentation Awards – Araucanía Room

Chair: Gabriel León

20:00 - 21:30 Dinner – Gran Hotel Pucón Calafquén Restaurant

22:30 After Dinner Get Together – Casino Enjoy, Amura Lounge

Thursday – December 6, 2012

8:00 - 11:00 Breakfast – Gran Hotel Pucón Calafquén Restaurant

Hotel Check-out before 12:00 PM – Gran Hotel Pucón Reception