

Scientific Program

4th International Conference on

Plant Genomics

July 14-15, 2016 Brisbane, Australia



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08:00-08:30 Registrations

Quay 2 Main Hall

conferenceSeries.com 08:30-08:45

Opening Ceremony

Keynote Forum

Introduction

- 08:45-09:10 **Title: Genomics and genetics to analyze nodulation regulation of legumes**
Peter M Gresshoff, The University of Queensland, Australia
- 09:10-09:35 **Title: Genomics generates new insights into host plant defense and offers novel strategies for crop protection**
Yinghua Huang, USDA-ARS and Oklahoma State University, USA
- 09:35-10:00 **Title: Adapt agriculture to changing environment: Introgressing stress tolerance genes to varieties through conventional breeding**
Meixue Zhou, University of Tasmania, Australia
- 10:00-10:15 **Exhibitor Speech**

Networking & Refreshment Break 10:15-10:30 @ On Quay Restaurant

Track 6: Plant Genomics Applications
Track 12: Plant Physiology
Track 13: Plant Pathology

Session Chair: Grace Chen, USDA-Western Regional Research Center, USA

Session Co-chair: Jasdeep Chatrath Padaria, National Research Centre on Plant Biotechnology, India

Session Introduction

- 10:30-10:50 **Title: The nitrate inducible NAC transcription factor TaNAC2-5A controls nitrate response and increases wheat yield**
Xue He, Chinese Academy of Agricultural Sciences, China
- 10:50-11:10 **Title: Molecular regulation of nitrate in plants**
Yong Wang, Shandong Agricultural University, China
- 11:10-11:30 **Title: The rpg4/Rpg5 integrated decoy resistance to wheat stem rust race TTKSK in barley: Towards effector identification**
Robert Saxon Brueggeman, North Dakota State University, USA
- 11:30-11:50 **Title: Presence of endogenous Badnavirus sequences in yam genome: Implication for tropical crops exchange**
Marie Umber, French National Institute for Agronomic Research, West Indies
- 11:50-12:10 **Title: Screening and bioactivity measurement of high altitude medicinal plants**
Deepak Sharma, Kathmandu University School of Science, Nepal
- 12:10-12:30 **Title: Phytochemical constituents and bioactive properties of *Glinus oppositifolius* (L) Aug. DC., against bacterial pathogens**
Juliana Janet R Martin-Puzon, University of the Philippines, Philippines
- 12:30-12:50 **Title: Induced defense responses in hop-*Verticillium* interactions as revealed by proteomic and transcriptomic analysis**
Branka Javornik, University of Ljubljana, Slovenia
- 12:50-13:10 **Title: Transcriptome analysis of *Lesquerella*: A potential industrial oilseed crop for hydroxy fatty acid production**
Grace Chen, USDA-Western Regional Research Center, USA

Group Photo

Lunch Break 13:10-13:40 @ On Quay Restaurant

- 13:40-14:00 **Title: Plant response to biotic stress: Insights from transcriptomics and structural genomics**
Ana Maria Benko Iseppon, Federal University of Pernambuco, Brazil
- 14:00-14:20 **Title: Compartmentalized metabolic engineering of plant for rational drug biosynthesis and oral delivery of whole plant material facilitated cost effective malaria treatment**
Shashi Kumar, International Centre for Genetic Engineering and Biotechnology, India
- 14:20-14:40 **Title: Genome-wide association for pollen viability and silk receptivity under heat stress in tropical maize**
Ayyanagouda Patil, University of agricultural Sciences, Raichur, India

- 14:40-15:00 **Title: Transcriptome profiling for identifying genes to develop abiotic stress tolerant transgenic wheat**
Jasdeep Chatrath Padaria, National Research Centre on Plant Biotechnology, India
- 15:00-15:20 **Title: Differential metabolic profiles and transcriptomic profiles during different color stages of albino tea plant (*Camellia sinensis*)**
Liang Chen, Tea Research Institute of the Chinese Academy of Agricultural Sciences, China
- 15:20-15:40 **Title: Studying host-insect interactions using viral induced gene silencing and siRNA**
Anna-Maria Botha Oberholster, Stellenbosch University, South Africa

Networking & Refreshment Break 15:40-15:55 @ On Quay Restaurant

- 15:55-16:15 **Title: Analysis of olfactory genes in *Sitobion avenae* by antennal transcriptome**
Julian Chen, Chinese Academy of Agricultural Sciences, China
- 16:15-16:35 **Title: Adaptive ecological incipient sympatric speciation of wild barley at "Evolution Canyon"**
Eviatar Nevo, University of Haifa, Israel

Panel Discussion 16:35-16:45

Poster Presentations @ 16:45-17:25

- PG 01 **Title: Selection for forage quality in tall fescue using a dihaploid generation approach**
Bryan Kindiger, United States Department of Agriculture-Agricultural Research Service, USA
- PG 02 **Title: Development of molecular markers in order to assess the α -gliadin immunogenic content of an international spelt collection**
Benjamin Dubois, Université Catholique de Louvain, Belgium
- PG 03 **Title: Acceleration of CRISPR/Cas9 breeding using flowering stimulation and precision lighting**
Juan Pablo Matte, Pontificia Universidad Católica de Chile, Chile
- PG 04 **Title: Screening of wild oil palm (*Elaeis guineensis*) germplasm for lipase activity**
Wong Yun Teng, Malaysian Palm Oil Board, Malaysia
- PG 05 **Title: Molecular cloning and characterization of *BcCSP1*, a Pak choi (*Brassica rapa* ssp. *chinensis*) cold shock protein gene highly co-expressed under ABA and cold stimulation**
Feiyi Huang, Nanjing Agricultural University, China
- PG 06 **Title: Marker assisted transfer of drought QTLs and BPH resistance for development of new generation rice varieties**
G S Mangat, Punjab Agricultural University, India
- PG 07 **Title: Whole genome sequencing of ten pathotypes of *Xanthomonas oryzae* pv. *oryzae* using a combination of Illumina and PacBio sequencing chemistries**
Jagjeet Singh Lore, Punjab Agricultural University, India
- PG 08 **Title: Overexpressing sodium transporters in soybean for salt tolerance improvement**
Truyen Quach, Field Crops Research Institute, Vietnam

Day 2 July 15, 2016

Quay 2 Main Hall

Workshop

- 09:00-09:30 **Title: Precision genome engineering for a bright food future**
John Salmeron, Precision BioSciences Inc., USA
- 09:30- 10:00 **Title: Parasitic castration entomógena in neotropical species : Models malpighiaceae of salt marshes**
Ana Claudia de Macedo Vieira, Federal University of Rio de Janeiro, Brazil
- 10:00- 10:30 **Title: Gall inducers and host plants: What changes may these organisms induce on plant metabolism?**
André Luis de Alcantara Guimarães, Federal University of Rio de Janeiro, Brazil

Track 1: Plant Molecular and Cellular Biology

Track 7: Plant Tissue Culture

Track 10: Plant Stem Cells

Track 17: Cereals and Crops

Track 19: Bioinformatics

Networking & Refreshment Break 10:30-10:45 @ On Quay Restaurant

Session Chair: **Wen Yuan Song**, University of Florida, USA

Session Co-chair: **Rakhi Chaturvedi**, IIT Guwahati, India

Session Introduction

- 10:45-11:05 **Title: Application of next-generation sequencing, genome sequencing, and whole genome re-sequencing to practical plant breeding: Case studies on lupin**
Huaan Yang, Department of Agriculture and Food Western Australia, Australia
- 11:05-11:25 **Title: C2Pe: A new open source qPCR algorithm and web interface for raw data analysis**
Juan Pablo Matte, Pontificia Universidad Católica de Chile, Chile

- 11:25-11:45 **Title: Developing climate resilient wheat**
Kulvinder S. Gill, Washington State University, USA
- 11:45-12:05 **Title: Drought tolerance mediated by the rice ubiquitin ligase OsDt1**
Wen Yuan Song, University of Florida, USA
- 12:05-12:25 **Title: Evaluation of irrigation in triple-cropping of sugarcane**
Jamal Saudi, Dehkoda Sugarcane Agro-Industry Co, Iran
- 12:25-12:45 **Title: Understanding the molecular mechanisms underlying high grain calcium content in finger millet (*Eleusine coracana*): Paving way to calcium biofortification**
Neelofar Mirza, National Bureau of Plant Genetic Resources, India
- 12:45-13:05 **Title: Molecular and cytological studies on pollen development in autotetraploid rice**
Muhammad Qasim Shahid, South China Agricultural University, China

Lunch Break 13:05-13:35 @ On Quay Restaurant

- 13:35-13:55 **Title: Screening of mung bean (*Vigna radiata*) genotypes for nutrient stress tolerance**
Md Altaf Hossain, Soil Resource Development Institute, India
- 13:55-14:15 **Title: Known proteins, unexpected functions: A new insight into the transport mechanism of arsenite and cesium**
Abidur Rahman, Iwate University, Japan
- 14:15-14:35 **Title: Phylogenetic analysis of genera *Bellevalia*, *Leopoldia*, *Muscari* and *Pseudomuscari* species (Hyacinthaceae) in Iran based on four plastid DNA regions**
Azarnoosh Jafari, Islamic Azad university, Iran
- 14:35-14:55 **Title: Dissection of the network underlying agronomic traits in soybean**
Zhixi Tian, Chinese Academy of Sciences, China
- 14:55-15:15 **Title: Reaping the benefits of genome sequence and re-sequence information for chickpea improvement**
Mahendar Thudi, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India
- 15:15-15:35 **Title: PRL1 modulates root stem cell niche activity and meristem size through WOX5 and PLTs in *Arabidopsis***
Xia Li, Huazhong Agricultural University, China

Networking & Refreshment Break 15:35-15:50 @ On Quay Restaurant

- 15:50-16:10 **Title: Studies on nutrient uptake and culture conditions for synthesis of caffeine, (+)-catechine, (-)-epicatechin and (-)-epigallocatechin gallate in anther derived haploid cell lines of tea *Camellia sinensis* L**
Rakhi Chaturvedi, IIT Guwahati, India
- 16:10-16:30 **Title: The plant regeneration and genetic improvement of *Sapium sebiferum*: An important bioenergy tree**
Lifang Wu (Jinyan Hou), Hefei Institute of Physical Science, CAS, China
- 16:30-16:50 **Title: WSC remobilization to grain under drought in wheat**
Jingjuan Zhang, Murdoch University, Australia
- 16:50-17:10 **Title: Genetics of root-lesion nematode resistance in wheat: A review**
Rebecca S. Zwart, University of Southern Queensland, Australia
- 17:10-17:30 **Title: Breeding biofortified crops to alleviate micronutrient malnutrition**
Parminder Virk, International Centre for Tropical Agriculture, Colombia

Bussiness Suite

Track 14: Plant Breeding

Track 18: Plant Science

Session Chair: Hailing Jin, University of California, USA

Session Co-chair: Rebecca S. Zwart, University of Southern Queensland, Australia

- 10:45-11:05 **Title: QTL identification for reproductive-stage salinity tolerance in rice using novel phenotyping technique**
Rakesh K Singh, International Rice Research Institute, Philippines
- 11:05-11:25 **Title: Harnessing the hidden genetic diversity for improving multiple abiotic stress tolerances in rice (*Oryza sativa* L)**
Jianlong Xu, Chinese Academy of Agricultural Sciences (CAAS), China
- 11:25-11:45 **Title: Breeding of drought tolerant canola: From laboratory to the field**
Guangyuan Lu, Chinese Academy of Agricultural Sciences, China
- 11:45-12:05 **Title: Cross kingdom RNAi in plant pathogen interactions**
Hailing Jin, University of California, USA
- 12:05-12:25 **Title: Faba bean (*Vicia faba*) seed gene function expression profile study**
Shi Ying Yang, The University of Adelaide, Australia
- 12:25-12:45 **Title: Chemical triggered defense mechanisms against *Phytophthora infestans***
Gefu Wang-Pruski, Dalhousie University, Canada

12:45-13:05 **Title: Maize responses to photoperiod changes under controlled conditions**
You Zhi Li, Guangxi University, China

Lunch Break 13:05-13:35 @ On Quay Restaurant

13:35-13:55 **Title: The effect of biofuel production on sustainability of agriculture**
Andrzej Wasiak, Bialystok University of Technology, Poland

13:55-14:15 **Title: Genomics to detect and measure departures from autogamy in domesticated tomato**
Thomas Orton, Rutgers University, USA

14:15-14:35 **Title: Resistance of different Musa varieties to some strains of *Fusarium oxysporum f. sp. cubense* (Foc) with particular focus on Foc Tropical Race 4 (Foc TR4) in the Philippines.**

Agustin B. Molina, Bioversity International, Philippines

14:35-14:55 **Title: Understanding redox sensing and signaling through the identification and functional characterization of redox-sensitive proteins**

Yiji Xia, Hong Kong Baptist University, Hong kong

14:55-15:15 **Title: Translating advances in pearl millet genomics to farmer preferred cultivars**

Rakesh K Srivastava, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India

15:15-15:35 **Title: New insights into genome-wide change of DNA methylation and its association with gene expression in cadmium-exposed rice (*Oryza sativa*)**

Zhi Min Yang, Nanjing Agricultural University, China

Networking & Refreshment Break 15:35-15:50 @ On Quay Restaurant

15:50-16:10 **Title: Electron treatment of seed**

Frank Holm Roegner, Fraunhofer Institute for Organic Electronics, Germany

16:10-16:30 **Title: Molecular analysis of bioengineered rice: A proteomic and transcriptomic approach**

Soumitra Paul, University of Calcutta, India

16:30-16:50 **Title: An insight into the molecular mechanism of glutathione-ethylene interplay in plant defense**

Riddhi Datta, Govt. General Degree College, Kolkata, India

16:50-17:10 **Title: Selection of barley Genotypes for nutritional composition vis-à-vis malting trait for improvement**

Alka Vasan, CCS Haryana Agriculture University, Haryana, India

Closing Ceremony

Bookmark your dates

7th International Conference on

Plant Genomics

July 03-05, 2017 Bangkok, Thailand



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