



SCIENTIFIC PROGRAMME

DAY 1 - Monday, 13 June 2011

- 08:30 - 12:30** **Conference Registration desk open – put up posters**
Registration for optional tours
- 08:30 - 10:20** **OPENING CERIMONY**
- 08:30 - 09:30 Welcome by Chair and address by local authorities – UnB, Embrapa and ABICAB
- 09:30 - 09:55 Keynote Speech: Feeding the hungry world with peanuts – Howard Valentine, The Peanut Foundation, USA
- 09:55 - 10:20 Inaugural Lecture: Uncommon Collaboration, to Deliver the Peanut Genome - Howard Shapiro, MARS, Inc. USA
- 10:20 - 10:50** **Coffee break - Poster viewing**
- 10:50 - 12:30** **Session I: Genome sequencing - Chair: Howard Shapiro, MARS, Inc. USA**
- 10:50 - 11:15 Peanut Whole Genome Sequencing from Chinese Collaborators' Perspectives - Xinyou Zhang, HAAS, China
- 11:15 - 11:40 Sequencing legume genomes: Experiences with *Glycine*, *Phaseolus*, *Vigna* and *Cajanus* - Scott Jackson, Purdue University, USA
- 11:40 - 12:05 Apply Next Generation Sequencing into Peanut Research - Xu Xun, BGI, China
- 12:05 - 12:30 Evolution and structure of the peanut genome: when two plus two is more than four - David Bertoli, University of Brasilia, Brazil
- 12:30 - 14:00** **Lunch**
- 14:00 - 15:40** **Session II: Allelic Diversity and Germplasm Resources - Chair: José Valls, Embrapa, Brazil**
- 14:00 - 14:25 Employing Microsatellite and SNP Markers to Track Functional Mutations and Evaluate Genetic Diversity in the USDA *Arachis* Germplasm Collection - Noelle Barkley, USDA, Georgia, USA
- 14:25 - 14:50 Advances on the scientific knowledge and use of peanut wild relatives in Brazil - José Valls, Embrapa, Brazil
- 14:50 - 15:15 Molecular Variability Among *Arachis* Species - Tom Stalker, NC University, USA
- 15:15 - 15:40 Genetic relationships in the genus *Arachis* section *Arachis* based on molecular data - Márcio Moretzsohn, Embrapa, Brazil
- 15:40 - 16:00** **Coffee break – Poster viewing**
- 16:00 - 17:40** **Session III: Gene Discovery and Genetic Mapping**
- 16:00 - 16:25 Mining for induced and natural variation in peanut genes - Peggy Ozias-Akins, University of Georgia, USA
- 16:25 - 16:50 Genetic mapping of cultivated peanut with genomic SSR and transposon markers screened by *in silico* polymorphic analysis - Kenta Shirasawa, Kazusa DNA Research Institute, Japan
- 16:50 - 17:15 Markers, Maps and Molecular Breeding in Cultivated Groundnut: Not a Dream Anymore! Rajeev Varshney, ICRISAT, India
- 17:15 - 17:40 Global transcriptome analysis of peanut wild species under biotic and abiotic stress
Patrícia Guimarães, Embrapa, Brazil
- 17:40 - 18:10** **Award to Dr. Charles Simpson, Texas A&M, USA**
Developing Introgression Pathways for Gene Transfer to *Arachis hypogaea* L.
- 18:15 - 20:30** **Welcome reception**

DAY 2 - Tuesday, 14 June 2011

- 8:30 – 10:10** **Session IV: Genome structure - Chair: Ana Claudia Guerra Araujo, Embrapa, Brazil**
- 8:30 – 8:55 Identifying and exploiting biodiversity in wild relatives of crops
Trude Schwarzacher, Leicester University, UK
- 8:55 – 9:20 Some biogeographic, genomic and speciation considerations on section *Arachis*
Guillermo Seijo, IBONE, Argentina
- 9:20 – 9:45 Retrotransposons in *Arachis* – structure, genomic context, and phylogenetic classification
Stephan Nielen, Embrapa, Brazil
- 9:45 – 10:10 Dispersed and other repetitive DNA sequences in the peanut genome shown by BAC-FISH
Ana Claudia Guerra Araujo, Embrapa, Brazil
- 10:10 – 10:30** **Coffee break - Poster viewing**
- 10:30 – 12:35** **Session V – part I: Crop improvement - Chair: Ignacio Godoy, IAC, Brazil**
- 10:30 – 10:55 Current status of peanut breeding in São Paulo, Brazil, and surrounding states
Ignacio Godoy, IAC Campinas, Brazil
- 10:55 – 11:20 Development and Use of Molecular Markers to Accelerate Peanut Cultivar Development
Corley Holbrook, USDA, Georgia, USA
- 11:20 – 11:45 QTL analysis of early leaf spot resistance and agronomic traits in an introgression population of peanut
Mark Burow, Texas A&M, USA
- 11:45 – 12:10 Current Status and Objectives of Nursery El Carmen Peanut Breeding Program
Mario Buteler, Criadero El Carmen, Argentina
- 12:10 – 12:35 Broadening the genetic base of peanut: Introgression of wild *Arachis* resistance genes using the Tetraploid Route with the aid of molecular and cytogenetic markers - Soraya Leal-Bertioli, Embrapa, Brazil
- 12:35 – 14:00** **Lunch**
- 14:00 – 16:05** **Session V – part II: Crop improvement - Chair: Mark Burow, Texas A&M, USA**
- 14:00 – 14:25 Genetic engineering of groundnut for crop improvement: Current status and future prospects
Kiran Sharma, ICRISAT, India
- 14:25 – 14:50 Current progress in drought tolerance work in peanut – Field and lysimetric assessments of germplasm
Vincent Vadez, ICRISAT, India
- 14:50 – 15:15 Capturing genetic diversity from peanut wild relatives: Advanced Backcross QTLs analysis and CSLL construction - Daniel Fonceka, CIRAD/ISRA, France/Senegal
- 15:15 – 15:40 Molecular breeding for foliar disease resistance and quality-related traits in cultivated groundnut
MVC Gowda, ICRISAT, India
- 15:40 – 16:05 Molecular and physiological approaches to improve abiotic stress tolerance in groundnut (*Arachis* sp.)
Paxton Payton, USDA, USA
- 16:05 – 16:25** **Coffee break - Poster viewing**
- 16:25 – 18:15** **Session VI: Product Quality and Safety - Chair: Farid Waliyar, ICRISAT, Niger**
- 16:25 – 16:50 Challenges to the Future of Peanuts: A Genomic Solution? - Victor Nwosu, MARS, Inc., USA
- 16:50 – 17:15 Prevalence of aflatoxin contamination in groundnut value chains and strategies to enhance food safety in Mali
Farid Waliyar, ICRISAT, Niger
- 17:15 – 17:40 Isolation and characterization of important genes toward improvement peanut resistance to *Aspergillus flavus*
Weijian Zhuang, Fujian AF University, China
- 17:40 – 18:05 Identification of QTLs for Oil Content and Fatty Acid Composition in Cultivated Peanut (*Arachis hypogaea* L.) –
X Zhang, HAAS, Zhengzhou, China
- 19:30** **Conference Dinner**

DAY 3 - Wednesday, 15 June 2011

9:00 – 10:30	Visit to Cenargen's <i>Arachis</i> greenhouses
10:30 – 10:50	Coffee break - Poster viewing
10:50 – 12:30	PARALLEL SESSIONS – Strategic planning for next 5 years
10:50 – 11:10	Strategic advances in peanut genomics research: Establishing research plans and expectations for 2012 to 2016 – Rich Wilson, The Peanut Foundation
11:10 – 12:30	Discussions in Parallel sessions: 1. Allelic Diversity & Germplasm Resources. Moderators: T Stalker & J Valls 2. Genetic Mapping & Gene Discovery/Genome sequencing Moderators: R Varshney & P Ozias-Akins 3. Crop Improvement Moderators: C Holbrook & K Sharma 4. Product Quality & Safety Moderators: F Walyiar & V Nwosu
12:30 – 14:00	Lunch
14:00 – 15:30	PARALLEL SESSIONS
15:30 – 16:00	Coffee break - Poster viewing
16:00 – 17:00	Report on parallel sessions – Discussion on the strategic plan
17:00	Closing ceremony

