

AAGB 2018 BOOK



session 2018 AAGB

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Session I
Moderators:
Manish Pandey

and Scott Jackson

S1.OP1

Results from the Peanut Genome Initiative and the impacts on cultivar development

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Thiès Senegal***

- ***University of
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Abstract 1 –
« Présentation »

S1.OP2

**Modernizing
the Peanut
Breeding
Program at
ICRISAT**

1. **Janila1*, T.V.
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Abstract 2 –
« Presentation »

S1.OP3

**Wild Arachis
Species,
Valuable
Germplasm
Still to be
Known
Guillermo
Seijo1,2,* , A.
García1, S.
Samoluk1, L.
Chalup1, A.
Ortiz1, O., A.M.
González1,3, G.
Lavia 1,2 and G.
Robledo1,2**

Session II Moderators Guillermo Seijo and B. Guo

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CONICET,
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**2FACENA,
Argentina**

**3FCA, National
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Corrientes,
Argentina**

Abstract3-
« Presentation »

S1.OP4

**Could small-
seeded wild
relatives of
cultivated
peanut be
used to
increase the
size of peanut
seeds?**

Daniel

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Hodo-Abalo

Tossim2, Joel

Romaric

Nguepjop2,

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Abstract⁴ –
« Presentation »

S2.OP1	<p>Overview of CROPS to end hunger initiative Daniel Bailey^{1*}, Vern Long¹</p> <p>¹US Agency for International Development, Washington DC</p> <p>Abstract 1 S2- « Presentation »</p>
S2.OP2	<p>Research objectives in the Feed the Future Innovation Lab for peanut</p> <p>1. Hoisington¹ and J. Rhoads¹</p>

Feed the Future Innovation Lab for Peanut, College of Agricultural and Environmental Sciences, University of Georgia, Athens GA

Abstract 2 S2- « Presentation »

S2.OP3

PeanutBase: A resource for molecular research and breeding
E.K.S. Cannon¹, W. Huang¹, S. Kalberer², M. O'Connell, P. Otyama¹, S.B. Cannon¹, J.D. Campbell¹, N. Weeks², A. Farmer³

1Iowa State University, Ames, IA

2USDA-ARS, Ames, IA

3National Center for Genome Resources, Santa Fe, NM

Abstract 3 S2- « Presentation »

S2.OP4

Annotating the Peanut Transposons to Provide Resources for Peanut Improvement and Genomics

Dongying Gao¹, Moaine El Baidouri², Ye Chu³, Han Xia⁴, Chunming Xu¹, Karolina Heyduk⁵, Brian Abernathy¹, Peggy Ozias-Akins³, James H Leebens-Mack⁵, Jeremy Schmutz^{6,7}, David J Bertioli¹ and Scott A Jackson¹.

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7HudsonAlpha Institute for Biotechnology, Huntsville, AL, USA.

	Abstract 4 S2- « Presentation »
S2.OP5	<p>Considerations for successful genotyping of <i>Arachis hypogaea</i> in the modern genomics era</p> <p><i>Josh Clevenger</i>^{1*}, <i>Walid Korani</i>², <i>David Bertoli</i>³, <i>Brian Scheffler</i>⁴, <i>Justin Vaughn</i>⁵</p> <p><i>1Mars-Wrigley Confectionery, 111 Riverbend Rd, Athens, GA</i></p> <p><i>2CAGT, University of Georgia, 111 Riverbend Rd, Athens, GA</i></p> <p><i>3Crop and Soil Sciences, University of Georgia, 111 Riverbend Rd, Athens, GA</i></p> <p><i>4USDA-ARS, Stoneville, Mississippi</i></p> <p><i>5USDA-ARS, Athens, GA.</i></p> <p>Abstract 5 S2- « Presentation »</p>
S2.OP6	<p>The genome sequence of peanut – Genetic exchange between ancestral genomes drives genetic diversity</p> <p><i>David Bertoli</i>¹ and the <i>International Peanut Genome Consortium</i></p> <p><i>1Department of Crop and Soils Science/CAGT, The University of Georgia, Athens, GA USA</i></p> <p>Abstract 6 S2- « Presentation »</p>

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Session III Moderators: Shyam Tallury and Soraya Bertioli

<p>S3.OP1</p>	<p>Characterization of Chinese peanut germplasm and trait mapping</p> <p><i>Luo, Lei, H. Jiang, and B. Liao</i></p> <p>« Abstract » – « Presentation »</p>
<p>S3.OP2</p>	<p>Phenotypic and molecular screening of groundnut varieties for Cercospora leaf spots diseases</p> <p><i>S. Gaikpa and J.Y. Asibuo</i></p> <p>« Abstract » – « Presentation »</p>
<p>S3.OP3</p>	<p>Evaluation of advanced breeding lines of groundnut (<i>Arachis hypogaea</i>L.) for foliar disease resistance, drought and productivity traits in northern dry tract of Karnataka</p> <p><i>N. Motagi, Sourabha, M.B. Branayaka, R.S. Bhat, H. L. Nadaf, and P. Janila</i></p> <p>« Abstract » – « Presentation »</p>
<p>S3.OP4</p>	<p>The hunt for leaf spot disease tolerance in groundnut: progress made at CSIR-SARI</p> <p><i>Richard Oteng-Frimpong, Rukiya Danful, Baba Kassim Yussif, Doris Kanvenaa Puozaa, Nicholas Ninju Denwar and Richard Akromah</i></p> <p>« Abstract » – « Presentation »</p>

Session IV Moderators: Ran Hovav and Zheng Zheng

S4.OP1	<p>The Big Picture: Identifying the links between drought, development, and aflatoxin through intergenomics in <i>Aspergillus flavus</i></p> <p><i>C. Fountain, J. P. Clevenger, J. N. Vaughn, W. Korani, G. Agarwal, M. K. Pandey, H. Wang, R. K. Varshney, B. E. Scheffler, P. Ozias-Akins, and B. Guo</i></p> <p>« Abstract » – « Presentation »</p>
S4.OP2	<p>Identification of QTLs for leaf spot and rust resistance in a BC3F6 interspecific peanut introgression population in West Africa and Texas using SNP markers</p> <p><i>M.D. Burow, T.K. Tengey, C.E. Simpson, N. Denwar, P. Sankara, A. Hillhouse, and V. Mendu</i></p> <p>« Abstract » – « Presentation »</p>
S4.OP3	<p>Identification of novel genes for resistance to tomato spotted wilt and leaf spots in peanut (<i>Arachis hypogaea</i> L.) through GWAS analysis</p> <p><i>Zhang, Y. Tang, J. Li, A. Hagan, T. Jiang, P. Dang, Y. Chu, J.P. Clevenger, P. Ozias-Akins, C.C. Holbrook, M.L. Wang, and C.Y. Chen</i></p> <p>« Abstract » – « Presentation »</p>
S4.OP4	<p>Genetic investigation and mapping of the white mold tolerance trait in peanut</p> <p><i>Agmon, E. Manasherova, Y. Levy, M. Dafni-Yelin, J. Moy, M. Ibdah, A. Harel, and R. Hovav</i></p> <p>« Abstract » – « Presentation »</p>
S4.OP5	<p>Using wild <i>Arachis</i> species and Senegalese rhizobial strains to improve biological nitrogen fixation of cultivated peanut in Senegal</p> <p><i>A.Z. Zazou, D. Fonceka, S. Fall, M. D. Gueye, A. Diouf, D. Diouf, S. Svistoonoff</i></p>

	« Abstract » – « Presentation »
S4.OP6	<p>Using wild peanut species for improving native biological nitrogen fixation in rhizobia symbiosis</p> <p><i>S. Fall, A. Z. Zazou, D. Fonceka, M. D. Gueye, A. Diouf, D. Diouf, and S. Svistoonoff</i></p> <p>« Abstract » – « Presentation »</p>

Session V Moderators: Issa Faye and Peggy Ozias-Akins

S5.OP1	<p>Genetic diversity, population structure, and botanical variety of global peanut accessions revealed through genotyping-by-sequencing</p> <p><i>Zheng, Huang, Z. Sun, F. Qi, Y. Fang, W. Dong, H. Hu, F. Tang, and X. Zhang</i></p> <p>« Abstract » – « Presentation »</p>
S5.OP2	<p>The Progress of high oleic peanut breeding and application in China</p> <p><i>Zheng Zheng, Bingyan Huang, Ziqi Sun, Feiyan Qi, Yuanjin Fang, Wenzhao Dong, Haiyan Hu, Fengshou Tang, and Xinyou Zhang</i></p> <p>« Abstract » – « Presentation »</p>
S5.OP3	<p>Development of a next-generation, multi-parent advanced generation intercross (MAGIC), fine-mapping population for advancing genetics and genomics studies in peanut</p> <p><i>Baozhu Guo, Hui Wang, Shasidhar Yaduru, Manish K. Pandey, Chuanzi Zhao, Albert K. Culbreath, C. Corley Holbrook, Xingjun Wang, and Rajeev K. Varshney</i></p>

	« Abstract » – « Presentation »
S5.OP4	<p>Single Nucleotide Polymorphism (SNP) arrays and their interpretation in the context of peanut breeding</p> <p><i>Ye Chu, Josh Clevenger, Walid Korani, David J. Bertioli, Soraya Bertioli, Davis Gimode, Stephanie Botton, Carolina Chavarro, Chandler Levinson, Larissa Arrais Guimaraes, Kathleen Marasigan, Barbara Muller, Scott A. Jackson, Daniel Fonceka, Thomas G. Isleib, H. Thomas Stalker, C. Corley Holbrook, and Peggy Ozias-Akins</i></p> <p>« Abstract » – « Presentation »</p>

Session VI Moderators: Vincent Vadez and Corley Holbrook

S6.OP1	<p>Characterization of Arachis wild species</p> <p><i>S.P. Tallury, B.D. Tonnis, M.L. Wang, and H.T. Stalker</i></p> <p>« Abstract » – « Presentation »</p>
S6.OP2	<p>Tapping wild Arachis species for peanut improvement</p> <p><i>Shivali Sharma, Hari K. Sudini, Manish K. Pandey, Ramesh Bhat, S.K. Bera, P. Janila and R.K. Varshney</i></p> <p>« Abstract » – « Presentation »</p>
S6.OP3	<p>The impact of wild species in peanut breeding: Old stories and future prospects</p> <p><i>S.C.M. Leal-Bertioli, H.T. Stalker, I.J. Goddy, J.F. Santos, C.C. Holbrook, P. Ozias-Akins, Y. Chu, J. Clevenger, G. Wright, P. Janila, M.C. Moretzsohn, S.A. Jackson, and D. J. Bertioli</i></p> <p>« Abstract » – « Presentation »</p>
S6.OP4	<p>Interspecific population development for disease resistance</p>

H.T. Stalker, W.G. Hancock, T.G. Isleib, J.E. Hollowell, S.P. Tallury, Y. Chu, P. Ozias-Akins, S. Leal-Bertioli, and A.N.Massa

« Abstract » – « Presentation »

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Session VII Moderators: Daniel Fonceka and David Hoisington

<p>S7.OP1</p>	<p>Groundnut improvement for Sub-Saharan Africa and Asia: What strategy, what targets? <i>V. Vadez</i></p> <p>« Abstract » – « Presentation »</p>
<p>S7.OP2</p>	<p>Strengthening groundnut regional variety trials networks in West and Central Africa <i>H. Desmae, D. Sako, R. Oteng-Grimpong, C. Echekwu, A. Miningou, and H. Ajeigbe</i></p> <p>« Abstract » – « Presentation »</p>
<p>S7.OP3</p>	<p>Drought tolerance physiology for improving groundnut adaptation and productivity in semi-arid zones <i>F. Hamidou, O. Halilou, B.A. Falke, M. Heynikoye, and A. Harou</i></p> <p>« Abstract » – « Presentation »</p>

S7.OP4**ICRISAT's efforts toward understanding and translating genomic information from genome to field in groundnut***Manish K. Pandey and Rajeev K. Varshney*

« Abstract » – « Presentation »

Session VI Moderators: P. Janilla and Mark Burow

S8.OP1	<p>Promising Virginia bunch groundnut varieties for target ecologies of India <i>M.P. Deshmukh, S.N. Nigam, D.K. Kathmale, B.P. Kurndkar, S.R. Shinde, S.B. Mahajan and R.G. Jadhav</i></p> <p>« Abstract » – « Presentation »</p>							
S8.OP2	<p>Present status and future possibilities of peanut cultivation in different zones of Vietnam <i>T. Truong, N. X. Thu, and Bui Q. Dang</i></p> <p>« Abstract » – « Presentation »</p>							
S8.OP3	<p>Mapping GRD using DART-sequencing <i>Achola et al.</i></p> <p>« Abstract » – « Presentation »</p>							

