SESSION LECTURE

No. 6

New Advances in Agriculture

Room: 311A

Co-Chairs: Chun-Ming Liu  **William Lucas** 

Day 1 October 27th (Saturday) 13:30 – 17:00		
Time	**Speaker**	**Title**
13:30-14:00	**William Lucas** *University of California, Davis, USA*	Role of Vascular-mediated Long-distance Signaling in Crop Improvement
14:00-14:30	**Neena Mitter** *The University of Queensland, Australia*	RNAi sprays for protecting crops: Could novel 'BioClay Platform' be a Game Changer?
14:30-15:00	**Jizeng Jia** *Institute of Crop Sciences, Chinese Academy of Agriculture Sciences, China*	A first Reference genome of modern commercial wheat variety
15:00-15:30	**Tea Break**	
15:30-16:00	**Chun-Ming Liu** *Institute of Botany, Chinese Academy of Sciences, China*	Nutrition improvement of rice by genetic modification of aleurone development
16:00-16:30	**Jurandir Magalhaes** *EMBRAPA Maize and Sorghum, Brazil*	Translational Genomics Approaches to Increase Sorghum Yield on Acid Soils
16:30-17:00	**Jianbing Yan** *Huazhong Agricultural University, China*	A roadmap for future maize breeding revealed by the CUBIC population

Chun-Ming Liu

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Director General, Institute of Crop Sciences, Chinese Academy of Agricultural Sciences (ICS-CAAS), China, and professor of Institute of Botany, Chinese Academy of Sciences, China. The aim of his research is to understand seed development by using molecular genetic tools. His group is working on both rice and Arabidopsis, to elucidate genes underlying endosperm and embryo development. Through modification of endosperm development, he has developed elite rice lines with improved nutritional profiles.

Neena Mitter

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Prof Neena Mitter, Director, Centre for Horticutural Sceince at Queensland Alliance for Agriculture and Food Innovation, the University of Queensland is internationally recognised for her leadership in innovative, cross-functional research and exceptional industry engagement to address global challenges of agriculture and food security. She leads an impactful research group to deliver global innovations, namely ' Non-GM and Non-toxic BioClay spray for crop protection', 'Single dose- shelf stable Nanovaccines for animal health and "Clonal propagation of avocado using plant stem cells".. With increased scrutiny on use of chemicals as crop and animal disease control agents; Prof Mitter is focussed is on developing clean technologies for the agriculture of tomorrow

Jianbing Yan

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Dr. Jianbing Yan is a Professor at Huazhong Agricultural University, China. His research is focusing on genomic and genetic studies of maize complex quantitative traits. His research interest is to use the innovation knowledge and techniques to enhance maize genetic improvements.

William Lucas

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Dr. William (Bill) Lucas is a Distinguished Research Professor at the University of California, Davis. His research expertise is in the study of cell-to-cell and longdistance signaling in relation to plant growth, physiology and defense. He is particularly interested in the molecular signals that traffic through the vascular system to coordinate environmental inputs with resource allocation to optimize yield in crop plants. Dr. Lucas was elected to the French National Academy of Sciences in 2000.

Jizeng Jia

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Jizeng Jia is a professor of wheat at the Institute of Crop Sciences (ICS), Chinese Academy of Agriculture Sciences (CAAS). His research mainly focuses on wheat genomics and germplasm. He is interested in development of wheat diversity map, hapmap, gene map, and selection map. He is also interested in wheat genomic breeding.

Jurandir magalhaes

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Dr. Jurandir Magalhaes is a molecular geneticist at Embrapa Maize and Sorghum in Brazil. Dr. Magalhaes´ research program is focused on the molecular and quantitative genetics of abiotic stress tolerance primarily in sorghum and maize, and includes comparative genomics with other crop species. More specifically, his research addresses the role of root biology in crop adaptation to soil-based stresses including drought, insufficient mineral nutrients, and toxic metals such as ionic aluminum. Dr. Magalhaes´ research led to the isolation by positional cloning of one of the first plant aluminum tolerance genes, SbMATE, which encodes an aluminumactivated root citrate efflux transporter that confers sorghum Al tolerance.