



The First International Horticulture Research Conference

October 14-18, 2014 | Nanjing, China

Horticulture
Research



Plenary Lectures



Xiuxin Deng

Huazhong Agricultural University, China

Horticulture research in China



Mary Peet

USDA-NIFA, USA

U.S. horticultural research trends as a reflection of federal, state, and international partnerships



Fadi Chen

Nanjing Agricultural University, China

Distant hybridization and transgenic breeding of chrysanthemum



Dennis Gonsalves

USDA-ARS, USA

Commercialized transgenic horticultural crops: A good beginning, a drought at present, and the future?

Invited Presentations

1	Zhangjun Fei	Epigenetics trigger for tomato fruit ripening
2	Janet Slovin	Mutants of a diploid strawberry, <i>Fragaria vesca</i> , for understanding developmental processes and physiological responses
3	Zhongchi Liu	Flower and early stage fruit development in diploid strawberry
4	Wensuo Jia	Signal transductions in strawberry fruit development and ripening
5	Chunying Kang	Identification and characterization of long non-coding RNAs in diploid strawberry <i>Fragaria vesca</i> during flower and fruit development
6	Yuanyue Shen	Molecular mechanisms on the regulation of non-climacteric fruit ripening by the phytohormones
7	Zhihong Zhang	Comparative analysis of transcriptome and small RNAs between 'Sachinoka' strawberry and white-flesh mutant
8	Yu Xing	The mechanism of a transcription factor, FvWRKY41, regulates strawberry fruit softening by modulating pectate lyase C
9	Wanmei Jin	PacMYB1 gene regulation of anthocyanin biosynthesis in sweet cherry (<i>Prunus avium</i> L.)
10	Tianbao Yang	Functional studies of calcium/calmodulin on fruit development, ripening and secondary metabolism
11	Wilfried Schwab	Terpene glucosyltransferases from grapevine (<i>Vitis vinifera</i>)
12	Penelope Perkins-Veazie	Horticultural crops for prevention of chronic disease

Invited Presentations

13	Kunsong Chen	Regulation of flesh lignification: A case of fruit quality study in Zhejiang University
14	Zhujun Zhu	Glucosinolate profiles among different Brassica vegetables and factors for regulation of glucosinolate metabolism
15	Sanwen Huang	The genome and biology of cucumber
16	Charles Hawkins	Investigating genome-scale DNA variations among three <i>Fragaria vesca</i> cultivars
17	Yuepeng Han	Assessment of sugar and organic acid composition in cultivated and wild apples
18	Jan Schaart	Sequence-specific mutagenesis in potato
19	Yi Li	Horticultural crop improvement: Transgenic or non-transgenic?
20	Timothy Rinehart	Molecular methods for breeding better specialty crops
21	David Chagne	New genotyping technologies for faster breeding in apple and pear
22	Zhenchang Liang	Candidate gene exploring of grape berry with RNA seq in vitis core selection
23	Han Wu	Molecular characterization of a cluster of lectin receptor kinases confer broad-spectrum and durable insect resistance
24	Hui Yuan	A novel gene MdSSK1 as a component of the SCF complex rather than MdSBP1 can mediate the ubiquitination of S-RNase in apple
25	Xiaoming Song	Genome-wide analysis of the transcription factor family in Chinese cabbage
26	Alessandro Vannozzi	The stilbene synthase pathway in grapevine: from genomic organization to transcriptional regulation
27	Haibao Tang	In silico reconstruction of the ancestral flowering plant genome

Invited Presentations

28	Robert N Trigiano	Can phylogeny be determined from cross transferability of loci from three species in the genus <i>Viburnum</i> ?
29	Zongrang Liu	miRNA-triggered, phasiRNA-cascaded gene regulatory networks and their potential function in fruit crops
30	Jingguai Fang	Two-dimensional electrophoresis analysis of the proteins in grape tree sap
31	Qiang Xu	Dissection the sweet orange genome for heterozygous loci and unique genes
32	Jinsong Xiong	Genome-wide analysis of cation/proton antiporter (CPA) gene family and expression profile of CPA1 sub-family in response to salt stresses in different organs of grapevine (<i>Vitis vinifera</i> L.)
33	Pierre-Francois Bert	The rootstock and its effect on grapevine physiology in response to environmental variations
34	Serge Delrot	Effect of water stress and rootstock genotype on berry composition and gene expression in pinot noir berries
35	Wenping Qiu	Transcriptomics and functional components of grapevine basal defense against fungal pathogens
36	Richard Harrison	Effector-informed breeding- the promise of durable resistance?
37	Jinfeng Chen	Analysis of a cucumber interspecific introgression line with resistance to downy mildew
38	Fengwang Ma	Melatonin mediates the regulation of ABA metabolism, free-radical scavenging, and stomatal behavior in two <i>Malus</i> species under drought stress
39	Jing Ding	Evolution of cytokinin metabolic genes and possible involvement of cytokinins in cell death under low light conditions

Invited Presentations

40	Sanhong Wang	Response of the <i>Malus domestica</i> Borkh.cv. 'Starking Delicious' transcriptome and proteome to <i>Alternaria alternata</i> apple pathotype infection
41	Yanmin Zhu	Apple function genomics: from fruit to root
42	Riccardo Velasco	Comparative genomics of fruit trees
43	Jeffery Shen	A new algorithm for reference annotation independent transcript assembly and novel gene identification in rice and other organisms based on RNA-seq data
44	Rui Xia	Expanded miRNA-NB-LRR-phasiRNA network in the Gymnosperm Norway spruce
45	Xilin Hou	A bHLH transcription factor, BcbHLHpol, acts as a positive regulator of pollen development in Non-heading Chinese cabbage
46	Jingquan Yu	Redox control of apical dormancy via phytohormone homeostasis in tomato
47	Yan Zhong	Unique evolutionary pattern of NBS-LRR genes among five Rosaceae species
48	Tongming Yin	The divergent evolution and emergence of different sex chromosomes in the sister genera of family Salicaceae
49	Aide Wang	Cloning and characterization of fruit ripening-related ERF genes in apple genome
50	Wanpeng Xi	A preliminary study of the functional compounds in Chinese citrus species
51	Bingru Huang	Cytokinin-regulated metabolic pathways conferring drought tolerance in a perennial turfgrass species
52	Caizhong Jiang	A molecular approach to enhance drought tolerance in Petunia
53	Hong Luo	Genetic engineering of perennial grasses – trait modification, transgene containment and gene discovery in turf species

Invited Presentations

54	Masahiro Mii	Genetic transformation of orchids and production of transgenic blue phalaenopsis
55	Manzhu Bao	Advances in breeding of fruitless <i>Platanus acerifolia</i>
56	Jun Wu	Genome-wide analysis of Monosaccharide transporter (MST) family genes in pear
57	Wenwu Guo	Molecular marker assisted cell engineering and citrus improvement
58	Jim Lee-Mack	Plant Phylogenomics: Comparative analyses of plant genes and genomes
59	Sixue Chen	Proteomics in Horticulture Research -an example of tomato defense
60	Steven Van Nocker	Applications of chromatin techniques to plant development studies: Understanding the epigenetic basis of phase change in woody plants
61	Tingting Gu	ChIP-seq based Analysis of chromatin landscape and its application in horticultural crops
62	Zhifang Yu	Effect of individual and combination of heat and 1-MCP on protein profile change of peach fruits during ripening
63	Yan Xu	Primary understanding the biology of interaction between <i>Plasmopara viticola</i> and Chinese wild Vitis
64	Zhihong Gao	Genome-wide identification of auxin response factor (ARF) gene family and expression analysis of their role associated with the pistil development in Japanese apricot (<i>Prunus mume</i> Sieb. et Zucc)
65	Wanping Fang	Identification of the varietal origin of loose leaf tea based on analysis of a single leaf by SNP nanofluidic array
66	Lixiang Miao	Identification and distribution of anthocyanins in strawberry cultivars of China
67	Honghong Deng	The phylogenetic relationships of Citrus and related genus : insights from satellite DNA sequence

Invited Presentations

68	Yohei Higuchi	Anti-florigenic regulation of photoperiodic flowering in a typical short-day plant chrysanthemum
69	Chris Watkins	Revealing the role of ethylene in development of physiological disorders of fruits and vegetables with the use of 1-methylcyclopropene (1-MCP)
70	Angus Murphy	Elucidating stress, cytokinin, and auxin crosstalk in root development
71	Xiaochun Wan	Comparative transcriptome analysis on <i>Camellia sinensis</i> and <i>Camellia oleifera</i> reveals the difference in the formation of characteristic constituents
72	Wei Deng	Auxin signal transduction and trichome development in tomato
73	Liangsheng Zhang	Transcriptome and genome sequencing uncovers carbon fixation pathway in land plants: implications for evolution of CAM in orchids
74	Kyung-Hwan Han	A molecular framework for seasonal growth-dormancy regulation in perennial plants
75	Etti Or	Molecular control of grapevine bud dormancy release
76	Hazel Y Wetzstein	Studies on the reproductive biology and selection of superior genotypes of <i>Artemisia annua</i> , an important medicinal plant
77	Junping Gao	A NAC transcription factor controls ethylene-regulated cell expansion in flower petal
78	Lijun Wang	Heat tolerance in grapevines (<i>Vitis</i>): evaluation method and assessment at the germplasm level
79	Juyou Wu	Calcium channel identification and function in the pollen tube of <i>Pyrus pyrifolia</i>

Open Ceremony



Yanfeng Ding

Vice President, Nanjing Agricultural University



Nick Campbell

Executive Editor, Nature
Greater China Head, Nature Publishing Group

Presentations



Xiuxin Deng

Chinese Academy of Engineering academicians
President, Huazhong Agricultural University



Mary Peet

Division Director, USDA-NIFA

Poster Award Announcement and Closing Ceremony

