

Overview of Session I, IV & V

Thursday July 7 (GMT+8)		Friday July 8 (GMT+8)		Saturday July 9 (GMT+8)	
08:30 – 09:00	Opening Remarks	09:30 – 10:20	Session IV Genomic variation in breeding and genetic studies	08:30 – 09:40	Session V Regulations and biosafety of GMOs
09:00 – 10:20	Session I Forestry and Climate Change			09:40 – 10:00	Short break
10:20 – 10:35	Short break	10:20 – 10:35	Short break	10:00 – 11:00	WG 2.04.06 Business Meeting, Awards Presentation, and Closing Remarks
10:35 – 11:50	Session I Forestry and Climate Change	10:35 – 11:50	Session IV Genomic variation in breeding and genetic studies		
14:00 – 15:15	Session I Forestry and Climate Change	14:00 – 15:55	Session IV Genomic variation in breeding and genetic studies	11:00	Conference Ends
15:15 – 15:30	Short break				
15:30 – 16:40	Session I Forestry and Climate Change				
19:30 – 21:05	Session IV Genomic variation in breeding and genetic studies	20:00 – 21:15	Session V Regulations and biosafety of GMOs		

Session I, IV & V

	Beijing	Tokyo	Berlin Brussels Madrid Pretoria Stockholm	Brasilia	New York Santiago Washington	Chicago	Corvallis Los Angeles Vancouver
Opening Remarks	July 7	July 7	July 7	July 6	July 6	July 6	July 6
<p>Vincent L. Chiang (Conference Chair, <i>Northeast Forestry University, China & North Carolina State University, United States</i>)</p> <p>Bin Li (President, <i>Northeast Forestry University, China</i>)</p> <p>Myron F. Floyd (Dean of College of Natural Resources, <i>North Carolina State University, United States</i>)</p> <p>Fuxiang Chu (President, <i>Chinese Academy of Forestry, China</i>)</p> <p>Ron Sederoff (<i>North Carolina State University, United States</i>)</p>	08:30 – 09:00	09:30 – 10:00	02:30 – 03:00	21:30 – 22:00	20:30 – 21:00	19:30 – 20:00	17:30 – 18:00
<p>Session I. Forestry and Climate Change Chair: Vincent L. Chiang</p>	July 7	July 7	July 7	July 6	July 6	July 6	July 6
<p>Keynote Lecture for Session I Sally Aiken (<i>The University of British Columbia, Canada</i>) Using population genomics to catch up with climate change</p>	09:00 – 09:30	10:00 – 10:30	03:00 – 03:30	22:00 – 22:30	21:00 – 21:30	20:00 – 20:30	18:00 – 18:30

	Beijing	Tokyo	Berlin Brussels Madrid Pretoria Stockholm	Brasilia	New York Santiago Washington	Chicago	Corvallis Los Angeles Vancouver
Invited Talk for Session I Jianquan Liu (<i>Sichuan university & Lanzhou University, China</i>) Genetic mechanism of hybrid speciation and the methods to identify genes	09:30 – 09:55	10:30 – 10:55	03:30 – 03:55	22:30 – 22:55	21:30 – 21:55	20:30 – 20:55	18:30 – 18:55
Invited Talk for Session I Heather Coleman (<i>Syracuse University, United States</i>) Mycorrhizal associations improve biomass production and alter cell wall chemistry in poplar	09:55 – 10:20	10:55 – 11:20	03:55 – 04:20	22:55 – 23:20	21:55 – 22:20	20:55 – 21:20	18:55 – 19:20
Short Break	10:20 – 10:35	11:20 – 11:35	04:20 – 04:35	23:20 – 23:35	22:20 – 22:35	21:20 – 21:35	19:20 – 19:35
Session I. Forestry and Climate Change Chair: Heather Coleman	July 7	July 7	July 7	July 7	July 6	July 6	July 6
Invited Talk for Session I Zhilin Yuan (<i>Chinese Academy of Forestry, China</i>) Accessory chromosome loss contributes to increased symbiotic effectiveness of a tree root fungus	10:35 – 11:00	11:35 – 12:00	04:35 – 05:00	23:35 (July 6) – 00:00	22:35 – 23:00	21:35 – 22:00	19:35 – 20:00

	Beijing	Tokyo	Berlin Brussels Madrid Pretoria Stockholm	Brasilia	New York Santiago Washington	Chicago	Corvallis Los Angeles Vancouver
Invited Talk for Session I Xuhui Zhou (<i>Northeast Forestry University, China</i>) Effects of extreme drought on plant carbon and water processes in subtropical forests	11:00 – 11:25	12:00 – 12:25	05:00 – 05:25	00:00 – 00:25	23:00 – 23:25	22:00 – 22:25	20:00 – 20:25
Oral Report for Session I Early Career Speaker: Brandon Lind (<i>University of British Columbia, Canada</i>) Inferring Future Climate Vulnerability Using Genomics: Lessons from three clades of conifers	11:25 – 11:50	12:25 – 12:50	05:25 – 05:50	00:25 – 00:50	23:25 – 23:50	22:25 – 22:50	20:25 – 20:50
Session I. Forestry and Climate Change Chair: Saushka Naidoo	July 7	July 7	July 7	July 7	July 7	July 7	July 6
Invited Talk for Session I Yang Bai (<i>Chinese Academy of Forestry, China</i>) The interactions between plants and root microbiome	14:00 - 14:25	15:00 – 15:25	08:00 – 08:25	03:00 – 03:25	02:00 – 02:25	01:00 – 01:25	23:00 – 23:25
Invited Talk for Session I Ben Niu (<i>Northeast Forestry University, China</i>) Gene <i>sdaB</i> is essential for the high nematocidal activity of <i>Enterobacter ludwigii</i> AA4 against the pine wood nematode <i>Bursaphelenchus xylophilus</i>	14:25 - 14:50	15:25 – 15:50	08:25 – 08:50	03:25 – 03:50	02:25 – 03:50	01:25 – 01:50	23:25 – 23:50
Session I. Forestry and Climate Change Chair: Ben Niu	July 7	July 7	July 7	July 7	July 7	July 7	July 7

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Invited Talk for Session I Saushka Naidoo (<i>University of Pretoria, South Africa</i>) The combined effect of abiotic and biotic stress in <i>Eucalyptus</i>	14:50 – 15:15	15:50 – 16:15	08:50 – 09:15	03:50 – 04:15	03:50 – 03:15	01:50 – 02:15	23:50 (July 6) – 00:15
Short Break	15:15 – 15:30	16:15 – 16:30	09:15 – 09:30	04:15 – 04:30	03:15 – 03:30	02:15 – 02:30	00:15 – 00:30
Invited Talk for Session I Jolanda Roux (<i>University of Pretoria, South Africa</i>) Increasing plantation tree health challenges require a need for speed and smart solutions	15:30 – 15:55	16:30 – 16:55	09:30 – 09:55	04:30 – 04:55	03:30 – 03:55	02:30 – 02:55	00:30 – 00:55
Oral Report for Session I Celia Miguel (<i>Universidade Nova de Lisboa, Portugal</i>) <i>Pinus pinaster</i> resistance to pine wilt disease: uncovering early molecular responses and mechanisms involved	15:55 – 16:10	16:55 – 17:10	09:55 – 10:10	04:55 – 05:10	03:55 – 04:10	02:55 – 03:10	00:55 – 01:10
Oral Report for Session I Early Career Speaker: Lorenzo Federico Manjarrez Rodríguez (<i>Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria - Consejo Superior de Investigaciones Científicas, Spain</i>) Comparative transcriptional dynamics in scion and rootstock stems of grafted maritime pines	16:10 – 16:25	17:10 – 17:25	10:10 – 10:25	05:10 – 05:25	04:10 – 04:25	03:10 – 03:25	01:10 – 01:25

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Oral Report for Session I Early Career Speaker: Helena Sapeta (<i>Instituto de Tecnologia Química e Biológica António Xavier, Portugal</i>) Heat and Osmotic stress have contrasting effects on periderm and endodermis suberization of cork oak roots	16:25 – 16:40	17:25 – 17:40	10:25 – 10:40	05:25 – 05:40	04:25 – 04:40	03:25 – 03:40	01:25 – 01:40
Session IV. Genomic variation in breeding and genetic studies Chair: Vincent L. Chiang	July 7	July 7	July 7	July 7	July 7	July 7	July 7
Keynote Lecture for Session IV Dario Grattapaglia (<i>Brazilian Agricultural Research Corporation - Embrapa, Brazil</i>) Genomic selection in forest tree breeding: climbing the slope of enlightenment	19:30 – 20:00	20:30 – 21:00	13:30 – 14:00	08:30 – 09:00	07:30 – 08:00	06:30 – 07:00	04:30 – 05:00
Session IV. Genomic variation in breeding and genetic studies Chair: Isabel Allona	July 7	July 7	July 7	July 7	July 7	July 7	July 7
Invited Talk for Session IV Zander Myburg (<i>University of Pretoria, South Africa</i>) Large-scale sequencing of Eucalypt genomes to unravel genome variation for woody biomass production	20:00 – 20:25	21:00 – 21:25	14:00 – 14:25	09:00 – 09:25	08:00 – 08:25	07:00 – 07:25	05:00 – 05:25

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Invited Talk for Session IV Claudio Balocchi (<i>Bioforest S.A., Chile</i>) Genomic selection: an effective tool for <i>Eucalyptus globulus</i> clonal selection	20:25 – 20:50	21:25 – 21:50	14:25 – 14:50	09:25 – 09:50	08:25 – 08:50	07:25 – 07:50	05:25 – 05:50
Oral Report for Session IV Early Career Speaker: Julia Candotti (<i>University of Pretoria, South Africa</i>) Haplotype and structural variant-based dissection of quantitative traits in <i>Eucalyptus</i>	20:50 – 21:05	21:50 – 22:05	14:50 – 15:05	09:50 – 10:05	08:50 – 09:05	07:50 – 08:05	05:50 – 06:05
Session IV. Genomic variation in breeding and genetic studies Chair: Yingzhen Kong	July 8	July 8	July 8	July 7	July 7	July 7	July 7
Invited Talk for Session IV Jason A. Holliday (<i>Virginia Polytechnic Institute and State University, United States</i>) Genomic tools for species restoration: the case of American chestnut	09:30 – 09:55	10:30 – 10:55	03:30 – 03:55	22:30 – 22:55	21:30 – 21:55	20:30 – 20:55	18:30 – 18:55
Invited Talk for Session IV Junhui Wang (<i>Chinese Academy of Forestry, China</i>)	09:55 – 10:20	10:55 – 11:20	03:55 – 04:20	22:55 – 23:20	21:55 – 22:20	20:55 – 21:20	18:55 – 19:20

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Short Break	10:20 – 10:35	11:20 – 11:35	04:20 – 04:35	23:20 – 23:35	22:20 – 22:35	21:20 – 21:35	19:20 – 19:35
Session IV. Genomic variation in breeding and genetic studies Chair: Junhui Wang	July 8	July 8	July 8	July 8	July 7	July 7	July 7
Invited Talk for Session IV Yangdong Wang (<i>Chinese Academy of Forestry, China</i>) The <i>Litsea</i> genome and the evolution of the laurel family	10:35 – 11:00	11:35 – 12:00	04:35 – 05:00	23:35 (July 7) – 00:00	22:35 – 23:00	21:35 – 22:00	19:35 – 20:00
Invited Talk for Session IV Jinhui Chen (<i>Nanjing Forestry University, China</i>) Establishment of an efficient somatic embryogenesis system for in vitro culture of <i>Cunninghamia lanceolata</i>	11:00 – 11:25	12:00 – 12:25	05:00 – 05:25	00:00 – 00:25	23:00 – 23:25	22:00 – 22:25	20:00 – 20:25
Invited Talk for Session IV Yingzhen Kong (<i>Qingdao Agriculture University, China</i>) Transcriptional Regulation of Pectin Demethylesterification	11:25 – 11:50	12:25 – 12:50	05:25 – 05:50	00:25 – 00:50	23:25 – 23:50	22:25 – 22:50	20:25 – 20:50
Session IV. Genomic variation in breeding and genetic studies Chair: Zander Myburg	July 8	July 8	July 8	July 8	July 8	July 8	July 7
Invited Talk for Session IV Deqiang Zhang (<i>Beijing Forestry University, China</i>)	14:00 – 14:25	15:00 – 15:25	08:00 – 08:25	03:00 – 03:25	02:00 – 02:25	01:00 – 01:25	23:00 – 23:25

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Dynamic genetic architecture reveals natural variation in <i>PtoP4H9</i> is a robust factor responsible for perennial stem growth in <i>Populus</i>							
Invited Talk for Session IV Chaorong Tang (<i>Hainan university, China</i>) The cytosolic alkaline/neutral invertase, HbNIN2, and 14-3-3 module participates in rubber production of <i>Hevea</i> tree	14:25 – 14:50	15:25 – 15:50	08:25 – 08:50	03:25 – 03:50	02:25 – 03:50	01:25 – 01:50	23:25 – 23:50
Invited Talk for Session IV Guanzheng Qu (<i>Northeast Forestry University, China</i>) An excellent haploid poplar cell line could be the HeLa in woody plant	14:50 – 15:15	15:50 – 16:15	08:50 – 09:15	03:50 – 04:15	03:50 – 03:15	01:50 – 02:15	23:50 – 00:15 (July 8)
Invited Talk for Session IV Isabel Allona (<i>Polytechnic University of Madrid, Spain</i>) When to bud break: molecular control of dormancy-growth transition in poplar	15:15 – 15:40	16:15 – 16:40	09:15 – 09:40	04:15 – 04:40	03:15 – 03:40	02:15 – 02:40	00:15 – 00:40 (July 8)
Oral Report for Session IV Early Career Speaker: Nanette Christie (<i>University of Pretoria, South Africa</i>) Pitro50K, a genome-wide SNP genotyping resource for data-driven molecular breeding of tropical pines	15:40 – 15:55	16:40 – 16:55	09:40 – 09:55	04:40 – 04:55	03:40 – 03:55	02:40 – 02:55	00:40 – 00:55 (July 8)

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Session V. Regulations and biosafety of GMOs Chair: Estefania Elorriaga	July 8	July 8	July 8	July 8	July 8	July 8	July 8
Invited Talk for Session V Andrew Newhouse (<i>State University of New York, United States</i>) Development and Regulatory Review of Transgenic American Chestnuts for Restoration	20:00 – 20:25	21:00 – 21:25	14:00 – 14:25	09:00 – 09:25	08:00 – 08:25	07:00 – 07:25	05:00 – 05:25
Invited Talk for Session V Amy Klocko (<i>University of Colorado Colorado Springs, United States</i>) Engineering sterility in hybrid poplar for genetic containment	20:25 – 20:50	21:25 – 21:50	14:25 – 14:50	09:25 – 09:50	08:25 – 08:50	07:25 – 07:50	05:25 – 05:50
Invited Talk for Session V Ana Cristina Pinheiro (<i>Suzano, Brazil</i>) Genetically modified eucalyptus tolerant to glyphosate - an effective product for weed control	20:50 – 21:15	21:50 – 22:15	14:50 – 15:15	09:50 – 10:15	08:50 – 09:15	07:50 – 08:15	05:50 – 06:15
Session V. Regulations and biosafety of GMOs Chair: Vincent L. Chiang	July 9	July 9	July 9	July 8	July 8	July 8	July 8
Keynote Lecture for Session V Steve Strauss (<i>Oregon State University, United States</i>) Where are We in Recombinant Forest Biotech? Some Lessons about Science and Society in a Fractious and Changing World	08:30 – 09:00	09:30 – 10:00	02:30 – 03:00	21:30 – 22:00	20:30 – 21:00	19:30 – 20:00	17:30 – 18:00

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Session V. Regulations and biosafety of GMOs Chair: Andrew Newhouse	July 9	July 9	July 9	July 8	July 8	July 8	July 8
Invited Talk for Session V Estefania Elorriaga (<i>North Carolina State University, United States</i>) Gene editing approaches to modifying reproduction in <i>Eucalyptus</i>	09:00 – 09:25	10:00 – 10:25	03:00 – 03:25	22:00 – 22:25	21:00 – 21:25	20:00 – 20:25	18:00 – 18:25
Oral Report for Session V Early Career Speaker: Michael Gordon (<i>Oregon State University, United States</i>) HIGS for control of <i>Sphaerulina musiva</i> poplar leaf spot and stem canker disease: Efficacy, Stability, and Non-Target Impacts	09:25 – 09:40	10:25 – 10:40	03:25 – 03:40	22:25 – 22:40	21:25 – 21:40	20:25 – 20:40	18:25 – 18:40
Short Break	09:40 – 10:00	10:40 – 11:00	03:40 – 04:00	22:40 – 23:00	21:40 – 22:00	20:40 – 21:00	18:40 – 19:00
WG 2.04.06 Business Meeting, Awards Presentation, and Closing Remarks	10:00 – 11:00	11:00 – 12:00	04:00 – 05:00	23:00 – 00:00 (July 9)	22:00 – 23:00	21:00 – 22:00	19:00 – 20:00

Overview of Session II & Session III

Thursday July 7 (GMT+8)		Friday July 8 (GMT+8)		Saturday July 9 (GMT+8)	
The Opening Remarks will be held in room of Session I, IV & V		08:30 – 10:10	Session III Wood Biology, Physiology, Development and Uses	08:30 – 09:45	Session III Wood Biology, Physiology, Development and Uses
				09:45 – 10:00	Short break
09:00 – 10:20	Session II Genomes and epigenomes	10:20 – 10:35	Short break	The Closing Remarks will be held in room of Session I, IV & V	
10:35 – 11:25	Session II Genomes and epigenomes	10:25 – 11:40	Session III Wood Biology, Physiology, Development and Uses		
14:00 – 15:15	Session II Genomes and epigenomes	13:30 – 15:10	Session III Wood Biology, Physiology, Development and Uses	11:00	Conference Ends
15:15 – 15:30	Short break	15:10 – 15:25	Short break		
15:30 – 17:30	Session III Wood Biology, Physiology, Development and Uses	15:25 – 17:10	Session III Wood Biology, Physiology, Development and Uses		
20:30 – 21:25	Session II Genomes and epigenomes	19:30 – 21:10	Session III Wood Biology, Physiology, Development and Uses		

Session II & III

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Opening Remarks	July 7	July 7	July 7	July 6	July 6	July 6	July 6
The Opening Remarks will be held in room of Session I, IV & V	08:30 – 09:00	09:30 – 10:00	02:30 – 03:00	21:30 – 22:00	20:30 – 21:00	19:30 – 20:00	17:30 – 18:00
Session II. Genomes and epigenomes Chair: Tongming Yin	July 7	July 7	July 7	July 6	July 6	July 6	July 6
Keynote Lecture for Session II Charlie Gersbach (<i>Duke University, United States</i>) Epigenome Editing for Cell Programming	09:00 – 09:30	10:00 – 10:30	03:00 – 03:30	22:00 – 22:30	21:00 – 21:30	20:00 – 20:30	18:00 – 18:30
Session II. Genomes and epigenomes Chair: Jack P. Wang	July 7	July 7	July 7	July 6	July 6	July 6	July 6
Invited Talk for Session II Yiping Qi (<i>University of Maryland, United States</i>) Boosting plant genome editing with a versatile CRISPR- Combo system	09:30 – 09:55	10:30 – 10:55	03:30 – 03:55	22:30 – 22:55	21:30 – 21:55	20:30 – 20:55	18:30 – 18:55

	Beijing	Tokyo	Berlin Brussels Madrid Pretoria Stockholm	Brasilia	New York Santiago Washington	Chicago	Los Angeles Corvallis Vancouver
Invited Talk for Session II Tongming Yin (<i>Nanjing Forestry University, China</i>) Sex determination genes in <i>Populus deltoides</i> and a molecular model underlying female sex lability of poplars	09:55 – 10:20	10:55 – 11:20	03:55 – 04:20	22:55 – 23:20	21:55 – 22:20	20:55 – 21:20	18:55 – 19:20
Short Break	10:20 – 10:35	11:20 – 11:35	04:20 – 04:35	23:20 – 23:35	22:20 – 22:35	21:20 – 21:35	19:20 – 19:35
Invited Talk for Session II Quanzi Li (<i>Chinese Academy of Forestry, China</i>) The genome of <i>Alsophila spinulosa</i> and xylem formation and secondary metabolite biosynthesis in tree fern	10:35 – 11:00	11:35 – 12:00	04:35 – 05:00	23:35 – 00:00 (July 7)	22:35 – 23:00	21:35 – 22:00	19:35 – 20:00
Invited Talk for Session II Zhaoliang Zhang (<i>Anhui Agricultural University, China</i>) Theanine metabolism and transport in tea plants (<i>Camellia sinensis</i> L.)	11:00 – 11:25	12:00 – 12:25	05:00 – 05:25	00:00 – 00:25 (July 7)	23:00 – 23:25	22:00 – 22:25	20:00 – 20:25
Session II. Genomes and epigenomes Chair: Tongming Yin	July 7	July 7	July 7	July 7	July 7	July 7	July 6
Invited Talk for Session II Shihui Niu (<i>Beijing Forestry University, China</i>) Epigenetic timer of age in giga-genome of Chinese pine	14:00 - 14:25	15:00 – 15:25	08:00 – 08:25	03:00 – 03:25	02:00 – 02:25	01:00 – 01:25	23:00 – 23:25

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Invited Talk for Session II Enhua Xia (<i>Anhui Agricultural University, China</i>) Genetic diversity and domestication of cultivated tea plants	14:25 - 14:50	15:25 – 15:50	08:25 – 08:50	03:25 – 03:50	02:25 – 03:50	01:25 – 01:50	23:25 – 23:50
Invited Talk for Session II Lianfeng Gu (<i>Fujian Agriculture and Forestry University, China</i>) Drought induces epitranscriptome changes in stem-differentiating xylem of <i>Populus trichocarpa</i>	14:50 – 15:15	15:50 – 16:15	08:50 – 09:15	03:50 – 04:15	03:50 – 03:15	01:50 – 02:15	23:50 – 00:15 (July 7)
Short Break	15:15 – 15:30	16:15 – 16:30	09:15 – 09:30	04:15 – 04:30	03:15 – 03:30	02:15 – 02:30	00:15 – 00:30 (July 7)
Session III. Wood Biology, Physiology, Development and Uses Chair: Vincent L. Chiang	July 7	July 7	July 7	July 7	July 7	July 7	July 7
Keynote Lecture for Session III Wout Boerjan (<i>Ghent University, Belgium</i>) Engineering lignin to improve biomass processing: what have we learned?	15:30 – 16:00	16:30 – 17:00	09:30 – 10:00	04:30 – 05:00	03:30 – 04:00	02:30 – 03:00	00:30 – 01:00
Session III. Wood Biology, Physiology, Development and Uses Chair: Laigeng Li	July 7	July 7	July 7	July 7	July 7	July 7	July 7

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Invited Talk for Session III Ewa Mellerowicz (<i>Swedish University of Agricultural Sciences, Sweden</i>) Role of 4- <i>O</i> -Me-GlcA decorations on xylan in wood cell walls and in lignocellulose processing	16:00 – 16:25	17:00 – 17:25	10:00 – 10:25	05:00 – 05:25	04:00 – 04:25	03:00 – 03:25	01:00 – 01:25
Invited Talk for Session III Andrea Polle (<i>University of Goettingen, Germany</i>) Molecular ecophysiology of wood formation under drought	16:25 – 16:50	17:25 – 17:50	10:25 – 10:50	05:25 – 05:50	04:25 – 04:50	03:25 – 03:50	01:25 – 01:50
Invited Talk for Session III Zhibin Luo (<i>Chinese Academy of Forestry, China</i>) Physiological and molecular responses of <i>Populus alba</i> × <i>P. glandulosa</i> to changes in light intensity and nitrogen availability	16:50 – 17:15	17:50 – 18:15	10:50 – 11:15	05:50 – 06:15	04:50 – 05:15	03:50 – 04:15	01:50 – 02:15
Oral Report for Session III Early Career Speaker: Ana Milhinhos (<i>Universidade Nova de Lisboa, Portugal</i>) Receptor-like kinase SOBIR1/EVR regulates wood development by preventing premature xylem fibers differentiation in <i>Arabidopsis thaliana</i>	17:15 – 17:30	18:15 – 18:30	11:15 – 11:30	06:15 – 06:30	05:15 – 15:30	04:15 – 04:30	02:15 – 02:30
Session II. Genomes and epigenomes Chair: Shihui Niu	July 7	July 7	July 7	July 7	July 7	July 7	July 7

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Invited Talk for Session II Jill Wegrzyn (<i>University of Connecticut, United States</i>) Computational tools and infrastructure to improve forest health	20:30 – 20:55	21:30 – 21:55	14:30 – 14:55	09:30 – 09:55	08:30 – 08:55	07:30 – 07:55	05:30 – 05:55
Oral Report for Session II Early Career Speaker: Gen Li (<i>University of Maryland, United States</i>) Highly efficient C-to-T and A-to-G base editing in a Populus hybrid	20:55 – 21:10	21:55 – 22:10	14:55 – 15:10	09:55 – 10:10	08:55 – 09:10	07:55 – 08:10	05:55 – 06:10
Oral Report for Session II Early Career Speaker: Laura Figueroa (<i>Northern Arizona University, United States</i>) Transcriptomic response to WPBR infection in whitebark pine seedlings	21:10 – 21:25	22:10 – 22:25	15:10 – 15:25	10:10 – 10:25	09:10 – 09:25	08:10 – 08:25	06:10 – 06:25
Session III. Wood Biology, Physiology, Development and Uses Chair: Amy Brunner	July 8	July 8	July 8	July 7	July 7	July 7	July 7
Invited Talk for Session III Taku Demura (<i>Nara Institute of Science and Technology, Japan</i>)	08:30 – 08:55	09:30 – 09:55	02:30 – 02:55	21:30 – 21:55	20:30 – 20:55	19:30 – 19:55	17:30 – 17:55

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Biomechanics of xylem/woody vessel elements induced ectopically by the VND7 transcriptional switch in <i>Arabidopsis</i>							
Invited Talk for Session III Shawn Mansfield (<i>University of British Columbia, Canada</i>) Advances in The Valorization of Tree Cell Wall Lignin	08:55 – 09:20	09:55 – 10:20	02:55 – 03:20	21:55 – 22:20	20:55 – 21:20	19:55 – 20:20	17:55 – 18:20
Invited Talk for Session III Chang-Jun Liu (<i>Brookhaven National Laboratory, United States</i>) Field-grown transgenic poplar produces unexpected nonconventional lignin and significantly improves biomass saccharification	09:20 – 09:45	10:20 – 10:45	03:20 – 03:45	22:20 – 22:45	21:20 – 21:45	20:20 – 20:45	18:20 – 18:45
Invited Talk for Session III Andrew Groover (<i>US Forest Service & University of California Davis, United States</i>) Genetic Regulation of Vessel Traits Affecting Water Transport and Drought Response in <i>Populus</i>	09:45 – 10:10	10:45 – 11:10	03:45 – 04:10	22:45 – 23:10	21:45 – 22:10	20:45 – 21:10	18:45 – 19:10
Short Break	10:10 – 10:25	11:10 – 11:25	04:10 – 04:25	23:10 – 23:25	22:10 – 22:25	21:10 – 21:25	19:10 – 19:25

	Beijing	Tokyo	Berlin Brussels Madrid Pretoria Stockholm	Brasilia	New York Santiago Washington	Chicago	Los Angeles Corvallis Vancouver
Session III. Wood Biology, Physiology, Development and Uses Chair: Shawn Mansfield	July 8	July 8	July 8	July 7	July 7	July 7	July 7
Invited Talk for Session III Laigeng Li (<i>Chinese Academy of Sciences, China</i>) Towards understanding of the signaling involved in regulation of wood formation	10:25 – 10:50	11:25 – 11:50	04:25 – 04:50	23:25 – 23:50	22:25 – 22:50	21:25 – 21:50	19:25 – 19:50
Invited Talk for Session III Meng-zhu Lu (<i>Zhejiang A & F University, China</i>) XND1 - the emerging master regulator of xylem cell differentiation	10:50 – 11:15	11:50 – 12:15	04:50 – 05:15	23:50 – 00:15 (July 8)	22:50 – 23:15	21:50 – 22:15	19:50 – 20:15
Invited Talk for Session III Xianfeng Tang (<i>Qingdao Agriculture University, China</i>) Ubiquitinated DA1 negatively regulates vascular cambium activity through modulating the stability of WOX4 in <i>Populus</i>	11:15 – 11:40	12:15 – 12:40	05:15 – 05:40	00:15 – 00:40 (July 8)	23:15 – 23:40	22:15 – 22:40	20:15 – 20:40
Session III. Wood Biology, Physiology, Development and Uses Chair: Misato Ohtani	July 8	July 8	July 8	July 8	July 8	July 8	July 7
Invited Talk for Session III Toshiaki Umezawa (<i>Kyoto University, Japan</i>) Grass lignin metabolic engineering for sustainable lignocellulose valorization	13:30 – 13:55	14:30 – 14:55	07:30 – 07:55	02:30 – 02:55	01:30 – 01:55	00:30 – 00:55	22:30 – 22:55

	Beijing	Tokyo	Berlin Brussels Madrid Pretoria Stockholm	Brasilia	New York Santiago Washington	Chicago	Los Angeles Corvallis Vancouver
Invited Talk for Session III Zhimin Gao (<i>International Center for Bamboo and Rattan, China</i>) A regulatory network driving shoot lignification based on the population characteristic information of moso bamboo	13:55 – 14:20	14:55 – 15:20	07:55 – 08:20	02:55 – 03:20	01:55 – 02:20	00:55 – 01:20	22:55 – 23:20
Invited Talk for Session III Xinqiang He (<i>Peking University, China</i>) Phytohormone interactions in regulation of the secondary vascular tissue regeneration after large-scale bark girdling in <i>Populus</i>	14:20 – 14:45	15:20 – 15:45	08:20 – 08:45	03:20 – 03:45	02:20 – 02:45	01:20 – 01:45	23:20 – 23:45
Invited Talk for Session III Yuki Tobimatsu (<i>Kyoto University, Japan</i>) How do grasses produce lignin differently from woods: case studies with rice	14:45 – 15:10	15:45 – 16:10	08:45 – 09:10	03:45 – 04:10	02:45 – 03:10	01:45 – 02:10	23:45 – 00:10 (July 8)
Short Break	15:10 – 15:25	16:10 – 16:25	09:10 – 09:25	04:10 – 04:25	03:10 – 03:25	02:10 – 02:25	00:10 – 00:25 (July 8)
Session III. Wood Biology, Physiology, Development and Uses Chair: Meng-zhu Lu	July 8	July 8	July 8	July 8	July 8	July 8	July 8

	Beijing	Tokyo	Berlin Brussels Madrid Pretoria Stockholm	Brasilia	New York Santiago Washington	Chicago	Los Angeles Corvallis Vancouver
Invited Talk for Session III Misato Ohtani (<i>The University of Tokyo, Japan</i>) Conservation and diversification of transcriptional regulatory system for woody cell formation among land plant species	15:25 – 15:50	16:25 – 16:50	09:25 – 09:50	04:25 – 04:50	03:25 – 03:50	02:25 – 02:50	00:25 – 00:50
Invited Talk for Session III Aimin Wu (<i>South China Agricultural University, China</i>) The regulation of the rapid growth in the <i>Phyllostachys edulis</i> culm internode	15:50 – 16:15	16:50 – 17:15	09:50 – 10:15	04:50 – 05:15	03:50 – 04:15	02:50 – 03:15	00:50 – 01:15
Invited Talk for Session III Xuebin Zhang (<i>Henan University, China</i>) The metabolic basis of Maize pollen thermo-tolerance	16:15 – 16:40	17:15 – 17:40	10:15 – 10:40	05:15 – 05:40	04:15 – 04:40	03:15 – 03:40	01:15 – 01:40
Oral Report for Session III Shaofeng Li (<i>Chinese Academy of Forestry, China</i>) PtoWRKY40 interact with CuZn-Superoxide dismutase to modulate drought resistance by regulating lignin synthesis in <i>Populus tomentosa</i>	16:40 – 16:55	17:40 – 17:55	10:40 – 10:55	05:40 – 05:55	04:40 – 04:55	03:40 – 03:55	01:40 – 01:55
Oral Report for Session III Early Career Speaker: Daniel Conde (<i>Polytechnic University of Madrid, Spain</i>) Single-cell transcriptomic analysis of the shoot apex reveals conserved and divergent features between <i>Populus</i> and <i>Arabidopsis</i>	16:55 – 17:10	17:55 – 18:10	10:55 – 11:10	05:55 – 06:10	04:55 – 05:10	03:55 – 04:10	01:55 – 02:10

	Beijing	Tokyo	Berlin Brussels Madrid Pretoria Stockholm	Brasilia	New York Santiago Washington	Chicago	Los Angeles Corvallis Vancouver
Session III. Wood Biology, Physiology, Development and Uses Chair: Chang Liu	July 8	July 8	July 8	July 8	July 8	July 8	July 8
Invited Talk for Session III Wei Li (<i>Northeast Forestry University, China</i>) Cell-type specific transcription factors form regulatory nexus with a histone modification system for stem cambium development in <i>Populus</i>	19:30 – 19:55	20:30 – 20:55	13:30 – 13:55	08:30 – 08:55	07:30 – 07:55	06:30 – 06:55	04:30 – 04:55
Invited Talk for Session III Ying-Chung Jimmy Lin (<i>Taiwan University, China Taipei</i>) An Evolutionarily Conserved Long-distance Migrating Peptide Regulates Monolignol Biosynthesis in Woody Angiosperms	19:55 – 20:20	20:55 – 21:20	13:55 – 14:20	08:55 – 09:20	07:55 – 08:20	06:55 – 07:20	04:55 – 05:20
Invited Talk for Session III Changzheng Xu (<i>Southwest University, China</i>) Crosstalk regulation of auxin and gibberellin on cambial activity in poplar	20:20 – 20:45	21:20 – 21:45	14:20 – 14:45	09:20 – 09:45	08:20 – 08:45	07:20 – 07:45	05:20 – 05:45
Invited Talk for Session III Amy Brunner (<i>Virginia Polytechnic Institute and State University, United States</i>)	20:45 – 21:10	21:45 – 22:10	14:45 – 15:10	09:45 – 10:10	08:45 – 09:10	07:45 – 08:10	05:45 – 06:10

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Members of a <i>Populus</i> wood interaction network: roles in growth and wood chemistry revealed by a three-year field study							
Session III. Wood Biology, Physiology, Development and Uses Chair: Taku Demura	July 9	July 9	July 9	July 8	July 8	July 8	July 8
Invited Talk for Session III Jack Wang (North Carolina State University, United States) Multiplex CRISPR-Editing in <i>Populus trichocarpa</i> for Sustainable Fiber Production	08:30 – 08:55	09:30 – 09:55	02:30 – 02:55	21:30 – 21:55	20:30 – 20:55	19:30 – 19:55	17:30 – 17:55
Invited Talk for Session III Wei Zeng (Zhejiang A&F University, China) Characterization of Xyloglucan Fucosyltransferase in Poplar	08:55 – 09:20	09:55 – 10:20	02:55 – 03:20	21:55 – 22:20	20:55 – 21:20	19:55 – 20:20	17:55 – 18:20
Invited Talk for Session III Chang Liu (Northeast Forestry University, China) Abscisic acid regulates secondary cell-wall formation through phosphorylation of NST1 in <i>Arabidopsis</i> and its ortholog in <i>Poplar</i>	09:20 – 09:45	10:20 – 10:45	03:20 – 03:45	22:20 – 22:45	21:20 – 21:45	20:20 – 20:45	18:20 – 18:45
Short Break	09:45 – 10:00	10:45 – 11:00	03:45 – 04:00	22:45 – 23:00	21:45 – 22:00	20:45 – 21:00	18:45 – 19:00

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The Closing Remarks will be held in room of Session I, IV & V	10:00 – 11:00	11:00 – 12:00	04:00 – 05:00	23:00 – 00:00 (July 9)	22:00 – 23:00	21:00 – 22:00	19:00 – 20:00