

IAPB 2023 Program

as of July 18, 2023

Time	Sunday, August 6		
15:00-16:30	Registration		
16:50-18:20	Opening Talk & Welcome Reception [Opening Talk] "Women in Science – How Far Have We Come?" - Dr. Barbara Doyle Prestwich (University College Cork, Ireland)		
Time	Monday, August 7		
9:00-10:50	Opening Ceremony (#201)		
	[Plenary Session 1] "It Takes A Village" - Prof. Indra K. Vasil (University of Florida, USA)		
	[Plenary Session 2] "Developing Gene Editing Technologies for Auxin Research and Crop Improvement" - Prof. Yunde Zhao (UC San Diego, USA)		
	[Plenary Session 3] "Modulation of Flowering Time" - Prof. Gynheung An (Kyung Hee University, Korea)		
10:50-11:00	Break		
11:00-12:30	[MOA1] Food and Nutritional Security 1 Room A (#101+102)	[MOB1] Phytomicrobiome 1 Room B (#103+104)	[MOC1] Emerging Technologies for Plant Research (Phenomics) Room C (#105+106)
	[MOA1-1] (Invited) Decoding Root Growth to Mitigate Climate Change Wolfgang Busch (Salk Institute for Biological Studies, United States)	[MOB1-1] (Invited) TBA Gabriele Berg (Graz University of Technology, Austria)	[MOC1-1] (Invited) Sensor-based Phenotyping to Dissect Complex Traits in Plants Bettina Berger (University of Adelaide, Australia)
	[MOA1-2] (Invited) Engineering of Triterpenoid Biosynthesis Both in Plants and Yeast toward Both Human and Planetary Health Toshiya Muranaka (Osaka University, Japan)	[MOB1-2] (Invited) Modulation of Bacterial Wilt Resistance in Tomato by Root-associated Microbiota Seon-Woo Lee (Dong-A University, Korea)	[MOC1-2] (Invited) Progress of Crop Phenomics Researches in National Institute of Agricultural Sciences of Korea Hyeonso Ji (National Institute of Agricultural Sciences, Korea)
	[MOA1-3] (Invited) Breaking Down the Reproductive Barrier to Boom Up the Hybrid Rice Yield Letian Chen (South China Agricultural University, Guangzhou, China, China)	[MOB1-3] (Invited) Protective Microbiome in the Rhizosphere Choong-Min Ryu (Korea Research Institute of Bioscience and Biotechnology (KRIIBB), Korea)	[MOC1-3] (Invited) High-throughput Multiple Optical Phenotyping to Reveal the Genetic Architecture of Crop Drought Tolerance Wanneng Yang (Huazhong Agricultural University, China)
	[MOA1-4] (Invited) Alternative Splicing Mediates Plant High Temperatures Fitness: Understanding the Molecular Crosstalk Hye Sun Cho (Korea Research Institute of Bioscience & Biotechnology, Korea)	[MOC1-4] (Invited) What has been done and What will be Coming in Phenomics? Yong Suk Chung (Jeju National University, Korea)	
12:30-13:30	Break		
13:30-15:40	50th Anniversary Special Session of the Korean Society for Plant Biotechnology *Korean Only		
	Award Ceremony		
	[Commemorative Lecture] Evolution of biotechnology and K-biotech history Dr. Ho-Il Kim (Korean Society for Plant Biotechnology)		
	[Commemorative Lecture] Retrospective on the 50th anniversary of the Korean Society for Plant Biotechnology and the Role of Plant Scientists Dr. Kee-Yoeup Paek (Chungbuk National University, Korea)		
	[Invited Lecture] Source-Sink Regulation for Starch Production in Root Crops Dr. Peng Zhang (Group of Biotechnology for Cassava & Sweetpotato CAS Center for Excellence in Molecular Plant Sciences Chinese Academy of Sciences)		
	[Lecture of the Joogyo Academic Award] NLR Network Underlies Nonhost Resistance of Pepper Against the Irish Potato Famine Pathogen Phytophthora infestans Dr. Doil Choi (Seoul National University, Korea)		
15:40-15:50	Break		
15:50-18:20	[MOA2] The 6th Trilateral Research Association of Plant Biotechnology Symposium Room A (#101+102)	[MOB2] Biotech Company Activity (Genome Editing) Room B (#103+104)	[MOC2] Digital Breeding Room C (#105+106)
	Polyploid Genome Engineering for Quantitative Traits in Black Nightshade Species Dr. Soon-Ju Park (Gyeongsang National University, Korea)	[MOB2-1] (Invited) Nutritional Improvement of Tomato by Gene Editing for Healthy Life Hiroshi Ezura (University of Tsukuba/Sanatech Seed, Japan)	[MOC2-1] (Invited) Use of Digital Tools in Developing Superior Soy Varieties Anik Dhanaraj (Bayer Crops Science, India)
	Development of Multiplex Genome Editing Tools and Their Applications for Cotton Molecular Breeding Dr. Shuangxia JIN (Huazhong Agricultural University, China)	[MOB2-2] (Invited) Qi Biodesign: Advancing the Field of Precision Genome Editing YIDONG RAN (Tianjin Genovo Biotechnology Co Ltd, China)	[MOC2-2] (Invited) Application of Digital Breeding Tools in Pepper Breeding Byoung-Cheorl Kang (Seoul National University, Korea)
	Plant Transcription Factor Engineering for Our Sustainable Future Dr. Nobutaka Mitsuda (National Institute of Advanced Industrial Science and Technology, Japan)	[MOB2-3] (Invited) Developing Higher Value Crops through Genome Editing Technologies Kim Jae-Year (Gyeongsang National University, Korea)	[MOC2-3] (Invited) Understanding Molecular Mechanisms that Control High-yield Superior-quality Traits and Breeding Elite Varieties of Rice Li Jiayang (Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China)
	Progress towards development of rice proteome atlas Dr. Ravi Gupta (Kookmin University, Korea)	[MOB2-4] (Invited) Re-generating Growth: Next Generation Breeding Technologies Michael LEADER (Bayer Crops Science, Australia)	[MOC2-4] (Invited) Digitalizing Breeding in Plants: New Challenge in Supercomputing TAE-HO LEE (National Institute of Agricultural Sciences, Korea)
	Function Analysis of Soybean Sugar Transporters and Fatty Acyl-acyl Thioesterases for the Improvement of Soybean Yield and Seed Quality Prof. Shou Huixia (Zhejiang University, China)		
	Development of bio-nursery System for Medicinal Plants towards the Sustainable Use of Kampo Medicines Dr. Kayo Yoshimatsu (National Institutes of Biomedical Innovation, Health and Nutrition, Japan)		
	Annual General Meeting		
18:20~	Celebration Dinner		

IAPB 2023 Program

as of July 18, 2023

Time	Tuesday, August 8		
9:00-10:20	[Plenary Session 4] "Recent Advances in Green Biologics for Production of Vaccine and Protein Drugs" - Prof. Inhwan Hwang (POSTECH, Korea)		
	[Plenary Session 5] "Synthetic Biology: the New Frontier for Plant Genetic Engineering" - Prof. C. Neal Stewart (The University of Tennessee, USA)		
10:20-10:40	Break		
10:40-12:10	[TUA1] Plant Synthetic Biology and Metabolic Engineering Room A (#101+102)	[TUB1] Phytomicrobiome 2 Room B (#103+104)	[TUC1] Emerging Technologies for Plant Research (Epigenetics, RNAi, Posttranscriptional Modification) Room C (#105+106)
	[TUA1-1] (Invited) Metabolic Modulation and Metabolite Formation Using Carotenoid-based Platform for Enhanced Terpenoid Production in Rice Sun-Hye HA (Korea Hae University, Korea)	[TUB1-1] (Invited) Unlocking the Secrets of Plant Microbiomes Victor Jose Carrión Bravo (Univeristy of Malaga, Spain)	[TUC1-1] (Invited) Deciphering Cis-regulation at Single-cell Resolution in Plant Genomes Robert Schmitz (University Of Georgia, United States)
	[TUA1-2] (Invited) Development of New Functional Food Crops by Plant Synthetic Biology Qinlong Zhu (South China Agricultural University, China)	[TUB1-2] (Invited) Inheritance of Seed Microbiota in Oryza Sativa Yong-Hwan Lee (Seoul National University, Korea)	[TUC1-2] (Invited) Roles of Small Regulatory RNAs in Plant Cellular Development Yun Ju Kim (Yonsei University, Korea)
	[TUA1-3] (Invited) Elucidation of Psychoactive Clerodane Diterpenoids Metabolism in Salvia divinorum Moonhyuk Kwon (Gyeongsang National University, Korea)	[TUB1-3] (Invited) Yang Bai (University of Chinese Academy of Sciences, China)	[TUC1-3] (Invited) Xiao-Feng Cao (Chinese Academy of Sciences, China)
		[TUB1-4] (Invited) Selection of Nitrification Archaea at Rhizospheres Sung-Keun Rhee (Chungbuk National University, Korea)	[TUC1-4] (Invited) Distinct Regulatory Pathways Contribute to the Different CHH Methylation Dynamics in Transposable Elements throughout Arabidopsis Embryogenesis Yeonhee Choi (Seoul National University, Korea)
12:10-13:30	Break		
13:30-14:10	[Plenary Session 6] "Rice Cold Signaling Networks and Molecular Module-based Design for Breeding" - Prof. Kang Chong (Chinese Academy of Sciences, China)		
14:10-15:00	Poster Session		
15:00-16:30	[TUA2] Biotech Company Activity (Tissue Culture) Room A (#101+102)	[TUB2] Abiotic Stress 1 Room B (#103+104)	[TUC2] Plant Cell & Root Culture Room C (#105+106)
	TUA2	TUB2	TUC2
	[TUA2-1] (Invited) Toward Clinical Trial Phase 1 of Plant-based COVID-19 Vaccine in Thailand Waranyoo Phoolcharoen (Baiya Phytopharm Co., Ltd. & Chulalongkorn University, Thailand)	[TUB2-1] (Invited) Characterizations of ABA-dependent Phosphorylation and Targets of bHLH Transcription Factor AKSs in Guard Cells Yuki Hayashi (Graduate School of Science, Nagoya University, Japan)	[TUC2-1] (Invited) Sang Un Park (Chungnam National University, Korea)
	[TUA2-2] (Invited) Development of Growth Factors and Antibody Drugs Using Plant Cell-based Platform Technology Sang Hyun Moh (BIO-FD&C CO., LTD, Korea)	[TUB2-2] (Invited) Coordinated Regulation of Na ⁺ Extrusion and Long-distance Transport in Plant Dae Jin Yun (Konkuk University, Korea)	[TUC2-2] (Invited) Wenyuan Gao (Tianjin University, China)
	[TUA2-3] (Invited) Recombinant Protein Production Technology Using in Microalgae System Jung Yuchul (Deasang Cellgene Co., Korea)	[TUB2-3] (Invited) Molecular and Genetic Basis of Cold Tolerance in Maize Shuhua Yang (China Agricultural University, China)	[TUC2-3] (Invited) Current Developments in the Commercial Production of Secondary Metabolites: Bioreactor Designs for Adventitious Root Culture Hassan Mahmood (Chungbuk National University, Korea)
16:30-16:50			[TUC2-4] (Invited) Sustainable Cultivation and Comprehensive In Silico and In Vitro Assessment of Bioactivity for Potential Therapeutic Applications of Ginseng (Panax ginseng C.A. Meyer) Beyond its Natural Habitat Abdullah Shohael (Jahangirnagar University, Bangladesh)
16:50-18:20	Break		
	[TUA3] Meristem Engineering Room A (#101+102)	[TUB3] Abiotic Stress 2 Room B (#103+104)	[TUC3] In vitro Culture and Morphogenesis 1 Room C (#105+106)
	[TUA3-1] (Invited) Induction of Shoot Progenitor Cells in Plant Regeneration Lin Xu (CAS Center for Excellence in Molecular Plant Sciences, China)	[TUB3-1] (Invited) Unlocking the Secrets of Salinity Tolerance: Using Mangrove Tree Adaptations to Enhance Plant Tolerance Prakash Kumar (National University of Singapore, Singapore)	[TUC3-1] (Invited) A Rational Approach for the Production of Paclitaxel and the Control of its Downstream Biosynthetic Pathway MERCEDES BONFILL (University of Barcelona, Spain)
	[TUA3-2] (Invited) Cellular Differentiation and Pluripotency Acquisition within Callus Yoo-Sun Noh (Seoul National University, Korea)	[TUB3-2] (Invited) Saltsignaling Protects the Arabidopsis Root Stem Cell Niche Yan Guo (College of Biological Sciences, China)	[TUC3-2] (Invited) My Experience with Micropropagation as a Manipulation Tool of Plant Growth & Development Byoung Ryong Jeong (Gyeongsang National University, Korea)
	[TUA3-3] (Invited) The Single-cell Analysis of Plant Aging and Regeneration Capacity Jia-Wei Wang (Institute of Plant Physiology and Ecology, Chinese Academy of Sciences, China)	[TUB3-3] (Invited) Molecular Basis of Saline-alkaline Stress Tolerance in Rice Zheng-Yi Xu (northeast normal university, China)	[TUC3-3] (Invited) Nanotechnology based Elicitation Strategies of in-vitro Cultures for the Sustainable Use of Medicinal Plants Tariq Khan (University of Malakand, Pakistan)
	[TUA3-4] (Invited) Meristem Engineering by Transcription Factors Akira Iwase (RIKEN, Japan)	[TUB3-4] (Invited) Development of Drought Tolerant Plant by the Change of Root System Architecture Woo Sik Chung (Gyeongsang National University, Korea)	[TUC3-4] (Invited) Enhanced Growth and Productivity of Useful Metabolites in the In Vitro Culture of Spirodela polyrhiza (giant duckweed) by Melatonin Treatment Hyeon-Kyung Choi (Chung-Ang University, Korea)

IAPB 2023 Program

as of July 18, 2023

Time	Wednesday, August 9		
9:00-10:20	[Plenary Session 7] "The Rice NF-YA5/MIR169a Module Promotes Nitrogen-Use-Efficiency" - Prof. Ju-Kon Kim (Seoul National University, Korea)		
	[Plenary Session 8] "Plant Cell Culture and Specialized Metabolism" - Prof. Fumihiko Sato (Kyoto University, Japan)		
10:20-10:40	Break		
10:40-12:10	[WEA1] Plant Nutriomics/Metabolomics Room A (#101+102) WEA1	[WEB1] Novel Bioproducts and Biopharmaceuticals 1 Room B (#103+104) WEB1	[WEC1] AI in Plant Biotech, Smart Farming, Vertical Farming Room C (#105+106) WEC1
	[WEA1-1] (Invited) New Insights into Natural Rubber Biosynthesis from Rubber-deficient Lettuce Mutants Expressing Goldenrod or Guayule Cis-prenyltransferase Dae-Kyun Ro (University of Calgary, Canada)	[WEB1-1] (Invited) Plant N-Glycoengineering for Recombinant Protein Production Hiroyuki KAJIURA (Osaka University, Japan)	[WEC1-1] (Invited) AI Research Trends in Greenhouse Horticulture: Smart Farming Applications UNSEOK LEE (National Agriculture Food Research Organization (NARO), Japan)
	[WEA1-2] (Invited) New Strategy for Production of Nutraceutical Substances: Metabolite Farming Ki Hun Park (Gyeongsang National University, Korea)	[WEB1-2] (Invited) Expression, Glycosylation, and Function of Recombinant Immunotherapeutic Proteins in Plant Kisung Ko (Chung-Ang University, Korea)	[WEC1-2] (Invited) AI-Driven & Data-Focused Future Agriculture Research Soo Hyun Park (KIST, Korea)
	[WEA1-3] (Invited) A Data-driven and Structure-guided Approach to Engineer Plant Enzymes Yi Shang (Yunnan Normal University, China)	[WEB1-3] (Invited) Diversity of Steroidal Glycoalkaloids and Application for the Production of Pharmaceuticals in Solanaceae Plants Masaharu Mizutani (Graduate School of Agricultural Science, Kobe University, Japan)	[WEC1-3] (Invited) Tae-in Ahn (Seoul National University, Korea)
	[WEA1-4] (Invited) Omics Profiles of Edible Plant Parts of Transgenic Plants Kodama Hiroaki (Chiba University, Japan)	[WEB1-4] (Invited) Plant Engineering for Monoclonal Antibody (mAb) Production Kyun Oh Lee (Gyeongsang National University, Korea)	
12:10-13:30	Break		
13:30-14:10	[Plenary Session 9] "Plant Breeding Innovation Supports A More Sustainable Food and Agriculture System" - Dr. Fan-Li Chou (American Seed Trade Association (ASTA), USA)		
14:10-15:00	Poster Session		
15:00-16:30	[WEA2] NPBT-Genome Editing 1 Room A (#101+102)	[WEB2] In vitro Culture and Morphogenesis 2 Room B (#103+104)	[WEC2] Biotic Stress 1 Room C (#105+106)
	[WEA2-1] (Invited) Cas9 Variants Expand the Possibilities of Plant Genome Editing Masaki Endo (Institute of Agrobiological Sciences (NIAS), National Agriculture and Food Research Organization (NARO), Japan)	[WEB2-1] (Invited) Molecular Genetic Studies of Organogenesis in Vitro Using Temperature-sensitive Mutants of Arabidopsis Munetaka Sugiyama (The University of Tokyo, Japan)	[WEC2-1] (Invited) New Tricks of An Old Acquaintance: Virulence Functions of the Composite Bacterial Effector AvrRps4 Walter Gassmann (University of Missouri, United States)
	[WEA2-2] (Invited) Production of High Oleic Acid by FAD2 Genome Editing from Model Plant to Oil Crops Hyun Uk KIM (Sejong University, Korea)	[WEB2-2] (Invited) Agrobacterium-Mediated Transformation of Capsicum Annum L. for Virus-Induced Gene Editing Jeong-Il KIM (Chonnam National University, Korea)	[WEC2-2] (Invited) NLR Network Underlies Nonhost Resistance of Pepper Against the Irish Potato Famine Pathogen Phytophthora Infestans Dail Choi (Seoul National University, Afghanistan)
	[WEA2-3] (Invited) Virus-Induced Genome Editing for Non-Model Plant Species Sang-gyu Kim (KAIST, Korea)	[WEB2-3] (Invited) Progress and Prospects on Genetic Transformation of Apple Trees in Korea Se Hee Kim (National Institute of Horticultural & Herbal Science, Korea)	[WEC2-3] (Invited) Manipulation of Plant Cellular Functions by the Bacterial Pathogen Ralstonia Solanacearum Alberto Macho (Chinese Academy of Sciences, China)
	[WEA2-4] (Invited) Haploid Induction Systems Derived from the Maternal and Paternal Sides in Plants Ok Ran Lee (Chonnam National University, Korea)		[WEC2-4] (Invited) Application of Natural Products to Boost Plant Innate Immunity Eui-Hwan Chung (Korea University, Korea)
16:30-16:50	Break		
16:50-18:20	[WEA3] NPBT-Genome Editing 2 Room A (#101+102)	[WEB3] Regulation & Policy of Plant Biotechnology Room B (#103+104)	[WEC3] Biotic Stress 2 Room C (#105+106)
	[WEA3-1] (Invited) Development and Improvement of Precise Base Editing and Diversification Tools for Plant Genome Engineering Keiji Nishida (Kobe University, Japan)	[WEB3-1] (Invited) Quo Vadis EU from Its Current Burdensome Legal Situation for Innovative Plant Breeding? Petra Jorasch (Euroseeds, Belgium)	[WEC3-1] (Invited) Structural Determinants of DM3, an alpha/beta Hydrolase, for an NLR-mediated Autoimmunity Eunyoung Chae (National University of Singapore, Singapore)
	[WEA3-2] (Invited) Phloem Transport Capacity Associates with Fruit Yield and Quality in Tomato Ildoo Hwang (POSTECH, Korea)	[WEB3-2] (Invited) Regulation of Biotech Crops in Australia – Past, Present & Future Felicity Keiper (BASF, Australia)	[WEC3-2] (Invited) SPOTTED-LEAF7 Plays a Critical Role in Rice Growth and Stress Responses Jong-Seong Jeon (Kyung Hee University, Korea)
	[WEA3-3] (Invited) Designing Cucumber Crops for Enhanced Agricultural Productivity by Tailoring Architecture Using Rare Alleles Xueyong Yang (State Key Laboratory of Vegetable Biobreeding, Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences, China)	[WEB3-3] (Invited) Comparison of South Korea and International GMO (Genetically Modified Organism) Policies and Economic Effects of Institutional Improvements Yongjung Park (Hyundai Research Institute, Korea)	[WEC3-3] (Invited) A Downy Mildew Race-specific Effector ATR2, An Avirulent Determinant Recognized by RPP2 NLR Pair Dae Sung Kim (Hubei University, China)
	[WEA3-4] (Invited) Biochemical Analysis of Cas and Acr Proteins Interacting with PAM-recognizing CRISPR Effectors Euiyoung Bae (Seoul National University, Korea)	Pannel Discussion with Speakers Chair: Prof. Ju Kon Kim (Seoul National Univ., Korea)	[WEC3-4] (Invited) Mode of Action of Biological Control Agents against Plant Diseases Hyong Woo Choi (Andong National University, Korea)
18:30~	Banquet		

IAPB 2023 Program

as of July 18, 2023

Time	Thursday, August 10		
9:00-10:20	[Plenary Session 10] "Applying CRISPR/Cas to plants: From Gene Editing to Chromosome and Tissue Engineering" - Prof. Dr. Holger Puchta (Karlsruhe Institute of Technology (KIT), Germany)		
	[Plenary Session 11] "Calcium Signaling and Nutrient Homeostasis in Plants" - Sheng Luan (University of California, Berkeley, USA)		
10:20-10:40	Break		
10:40-12:10	[THA1] Plant Systems Biology Room A (#101+102)	[THB1] Novel Bioproducts and Biopharmaceuticals 2 Room B (#103+104)	[THC1] Emerging Technologies for Plant Research (Nano-material Application) Room C (#105+106)
	THA1	THB1	THC1
	[THA1-1] (Invited) A Systems Biology View of Plant Senescence Yongfeng Guo (Chinese Academy of Agricultural Sciences, China)	[THB1-1] (Invited) Engineering Plant Genome to Advance Human Health and Increase Global Access – From Laboratory to the Clinic Henry Daniell (University of Pennsylvania, United States)	[THC1-1] (Invited) Mechanisms Behind CeO2 Nanoparticles Improved Plant Salt Tolerance Honghong Wu (Huazhong Agricultural University, China)
	[THA1-2] (Invited) Systems Approaches in Plants Daehee Hwang (Seoul National University, Korea)	[THB1-2] (Invited) Resistance Mechanism of Pinosylvlin Stilbenes to Pine Wood Nematodes and Production of Pinosylvlin Stilbenes through Pinus Cell Culture Choi Yong-Eui (Kangwon National University, Korea)	[THC1-2] (Invited) The Real-time Monitoring of Multiple Stress Signaling Molecules in Living Plants using Surface-enhanced Raman Spectroscopy Seonyeong Kwak (Seoul National University, Korea)
	[THA1-3] (Invited) In Silico Modeling and Analysis of Plant-microbe Interactions Dong-Yup Lee (Sungkyunkwan University, Korea)	[THB1-3] (Invited) Engineering Cannabinoid Biosynthesis in Tobacco Heribert Warzecha (Technical University of Darmstadt, Germany)	[THC1-3] (Invited) Engineering nanotechnology for Precision Sensing and Targeted Delivery in Living Plants Tedrick Thomas Salim Lew (National University of Singapore, Singapore)
		[THB1-4] (Invited) Comprehensive Specialized Metabolites Mining by Computational Mass Spectrometry Kyo Bin Kang (Sookmyung Women's University, Korea)	[THC1-4] (Invited) Nanotechnology Enabled Genetic Engineering in Plants: NA Delivery in Mature Plants Huan Zhang (Shanghai Jiao Tong University, China)
12:10-13:30	Break		
13:30-14:10	[Plenary Session 12] "Gene-Culture Coevolution Foundations of Plant Biotechnology" - Prof. Arie Altman (Hebrew University of Jerusalem, Israel)		
14:10-14:30	[Special Lecture] A Case Study in Sustainable Agriculture: The Preceon® Smart Corn System Dr. Michael Leader (Head of Regulatory Scientific Affairs APAC, Bayer Crop Science)	[Special Lecture] "The Good and the Not-so-good: An Editor's Perspective on Scientific Manuscripts" - Günther Hahne (Plant Cell Reports, Germany)	Poster Session
14:30-14:50	[Special Lecture] Act and Regulation for R&D LMO safety management Dr. Hyun-Suk Cho (National Research Safty Headquarters KRIBB)		
14:50-15:00	Break		
15:00-16:30	Session I		
	[THA2] NPBT-Genome Editing 3 Room A (#101+102)	[THB2] Emerging Hot Subjects Room B (#103+104)	[THC2] Food and Nutritional Security 2 Room C (#105+106)
	[THA2-1] (Invited) Targeted Knockout of Barley Endosperm-specific Storage Proteins as a Prerequisite for Molecular Farming Purposes Goetz Hensel (Centre for Plant Genome Engineering, Germany)	[THB2-1] (Invited) Development of Targeted A-To-G Base Editing of Chloroplast DNA in Plants Sunghyun Hong (Greengene Inc., Korea)	[THC2-1] (Invited) Towards a Better Understanding of Genetic Basis of Nitrogen Use Efficiency in Rice Chengcai Chu (South China Agricultural University, China)
	[THA2-2] (Invited) Exploring Alternative CRISPR/Cas Orthologs Okjae Koo (nSAGE Inc., Korea)	[THB2-2] (Invited) Maximizing Cannabis Growth and Yield with Dynamic Spectrum Lighting: A Paradigm Shift in Horticulture Lighting Choa Mun Yun (Sherpa Space Inc., Korea)	[THC2-2] (Invited) Modulation of Temperature-dependent Behavior of Floral Repressors by Protein Isoforms Ji Hoon Ahn (Korea University, Korea)
	[THA2-3] (Invited) Plastid and Mitochondrial Genome Editing in Plants Shin-ichi Arimura (University of Tokyo, Japan)	[THB2-3] (Invited) High Pressure Spraying Protocol Reveals Unique Mode of Action of Exogenous siRNAs Gabi Krzczal (RLP AgroScience GmbH, Germany)	[THC2-3] (Invited) Simultaneous Enhancement of Iron Deficiency Tolerance and Iron Accumulation in Rice by Combining Knockdown of OsHRZ Ubiquitin Ligases with Introduction of Engineered Ferric-chelate Reductase Naoko Nishizawa (Ishikawa Prefectural University, Japan)
	[THA2-4] (Invited) Improvement of Soybean Nutritional Values and Productivity by Using Genome Editing Technology Min Chul Kim (Gyeongsang National University, Korea)	[THB2-4] (Invited) Plant Expression System as a Biologics Manufacturing Platform Eun-Ju Sohn (BioApplications Inc., Korea)	[THC2-4] (Invited) Jong-Yeol Lee (Rural Development Administration, Korea)
16:30-16:40	Break		
16:40-18:00	[THA3] Abiotic Stress 3 Room A (#101+102)	[THB3] Energy and Environment (Bioenergy, Biorefinery) Room B (#103+104)	[THC3] Young Leader Scientist Presentation Room C (#105+106)
	[THA3-1] (Invited) The Physiological Function of Redox Sensors in Plants Sang Yeol Lee (Gyeongsang National University, Korea)	[THB3-1] (Invited) Emitterless: An Advanced Biomass Tree Crop Technology that Features Accelerated Growth and Greater Biomass Density Kwang-Hoon Hoo (Michigan State University, United States)	Decoding the Efficacy of Biocontrol Agents in Long-Term Crops: A Comprehensive Study in Ginseng Cultivation Dr. Ho-Seok Lee (Kyunghee University, Korea)
	[THA3-2] (Invited) Oscillations of CPKs Mediate Drought Response In Maize Zhizhong Gong (China Agricultural University, China)	[THB3-2] (Invited) Exploring the Molecular Mechanisms of Wood Formation for a Greener Future Jae-Heung Ko (Kyung Hee University, Korea)	Investigation of Ehd1, a grass-specific flowering activator in rice Dr. Lae-Hyeon Cho (Pusan National University)
	[THA3-3] (Invited) Superior Stress Tolerance Imposed by Genes from Antarctic Moss Byeong-ha Lee (Sogang University, Korea)	[THB3-3] (Invited) VNS-Based Transcriptional Regulatory Network for Future Improvement of Bioenergy Production in Land Plants Taku Demura (Nara Institute of Science and Technology, Japan)	Finding Molecular Barrier of Shoot Regeneration in Crops Based on Genotypic Variation Dr. Hyo-Jun Lee (KRIBB) Regarding the Selection of Elite Lines in Soybean Mutant Populations based on Omics Data Dr. Jae Il Lyu (National Institute of Agricultural Sciences, RDA)
18:00-18:15	Closing Ceremony		

IAPB 2023 Program

as of July 18, 2023

Time	Friday, August 11
10:00-12:00	Academic Meeting of 7th Trilateral Research Association of Plant Biotechnology Symposium