

ISHS International Orchid Symposium

January 11-15, 2010

Symposium Program

Oral presentations

Submitted oral presentations are a maximum of 15 minutes in length with 5 minutes for questions and discussion. Invited speakers are provided with 25 minutes for their presentation and 5 minutes for questions and discussion. The chairperson of each session will work with the timekeeper to ensure we stay on time. Thank you for your cooperation.

Poster presentations

Poster presenters are asked to stand next to their poster during the last 30 minutes of their session.

<u>Monday, 11 January 2010</u>		
16:00 - 20:00	Registration	
<u>Tuesday, 12 January 2010</u>		
8:00 - 12:00	Registration	
8:30 - 9:00	Welcome and Opening Remarks	
Oral session I: Orchid propagation, breeding, and genetics		
9:00 - 9:30 12-V-1	From Goats and Thrushes to Test Tubes: Development of Sexual and Clonal Propagation Methods for Orchids (Invited)	Joseph Arditti
9:30 - 10:00 12-V-2	Polyploidy and Variety Improvement of <i>Phalaenopsis</i> Orchids (Invited)	Wen-Huei Chen
10:00 - 10:30 12-V-3	Chromosome Research for Orchid Breeding (Invited)	Mikio Aoyama
10:30 - 10:50	Break; group photo	

Oral session II: Orchid breeding and genetics		
10:50 - 11:20 12-V-4	Pollen Meiotic Behavior in Relation to <i>Phalaenopsis</i> Breeding (Invited)	Fure-Chyi Chen
11:20 - 11:40 12-O-1	Breeding Barriers in Red <i>Phalaenopsis</i> Orchids	Tsai-Mu Shen
11:40 - 12:00 12-O-2	Phylogenetic Analysis in the Genera <i>Phaius</i> and <i>Cephalantheropsis</i> Using <i>rpl32-trnL</i> Marker	Shui-Ho Cheng
12:00 - 12:20 12-O-3	Chloroplast DNA Barcoding in <i>Spathoglottis</i> Species for Genetic Conservation	Florence C. Ginibun
12:20 - 13:20	Lunch	
Oral session III: Orchid ecology		
3:20 - 13:50 12-V-5	Ecophysiological Traits of <i>Paphiopedilum</i> and <i>Cypripedium</i> (Invited)	Hong Hu
13:50 - 14:20 12-V-6	<i>Ex situ</i> Orchid Conservation – a Case Study from the Singapore Botanic Gardens (Invited)	Tim Wing Yam
14:20 - 15:20	Poster session I (odd numbers)	
Oral session IV: Orchid ecology		
15:20 - 15:40 12-O-4	Mechanisms for Recruitment and Population Growth in <i>Nervilia nipponica</i> , an Endangered Orchid in Japan	Stephan Gale
15:40 - 16:00 12-O-5	Mycorrhiza Colonization Patterns in <i>Bletia</i> species in a Natural Forest Reserve in Michoacán, Mexico	María de los Ángeles Beltrán-Nambo
16:00 - 16:20 12-O-6	Evaluation of Growth and Flowering of Terrestrial Native Chilean orchids: <i>Bipinnula volkmannii</i> Kraenzl. , <i>Gavilea glandulifera</i> Poepp. , <i>Chloraea magellanica</i> Hook. f. , and <i>C. philippii</i> Reichb. F.	Ximena Calderón Baltierra
18:30 - 20:30	Welcome reception	

Wednesday, 13 January 2010

Oral session V: Orchid production

8:30 - 9:00 13-V-1	Environmental and Hormonal Regulation of Flowering in <i>Phalaenopsis</i> Orchids (Invited)	Erik Runkle
9:00 - 9:30 13-V-2	Control of Spiking in <i>Phalaenopsis</i> by Application of NH ₄ -N and Plant Growth Regulators (Invited)	Syoichi Ichihashi
9:30 - 10:00 13-V-3	Phalaenopsis Mineral Nutrition (Invited)	Yin-Tung Wang
10:00 - 10:20 13-O-1	Benzyladenine Induced Flowering of Potted Noble <i>Dendrobium</i> Red Emperor 'Prince' Orchid Plants	William Sakai
10:20 - 10:40	Break	

Oral session VI: Orchid production

10:40 - 11:00 13-O-2	Effect of Bulb Size and Gibberellin Application on the Bulb Growth of <i>Pleione formosana</i> Hayata	Mei-Chun Lu
11:00 - 11:20 13-O-3	Effects of Emerging Shoot Size, Temperature, and Benzyladenine on Growth and Flowering of <i>Zygopetalum</i> Redvale 'Fire Kiss' orchids	Matthew Blanchard
11:20 - 11:40 13-O-4	Evaluation of Growing Media Components for <i>Phalaenopsis</i>	Suzanne Amberger-Ochsenbauer
11:40 - 12:00 13-O-5	Growth and Flowering of <i>Oncidium</i> in an Artificial Textile Fiber Substrate	Ting-En Dai
12:00 - 12:20 13-O-6	Improvement of Inflorescence Quality by Calcium Supplement Nutriculture on <i>Oncidium</i> Gower Ramsey	Jung-Hua Hsu
12:20 - 13:20	Lunch	

Oral session VII: Orchid production, postharvest, and marketing

13:20 - 13:40 13-O-7	Crassulacean Acid Metabolism in <i>Phalaenopsis aphrodite</i> var. <i>formosa</i> during Different Developmental Stages	Wendy Yang
13:40 - 14:00 13-O-8	Photosynthetic Midday Depression in <i>Oncidium</i> alliance	Yao-Chien Alex Chang

14:00 - 14:20 13-O-9	Process Management and Marketing for Orchid Firms	Ching-Chun Shih
14:20 - 14:40 13-O-10	Purchasing and Non-purchasing Decisions in Orchid Consumption in the Taiwan Market	Nai-Hau Chen
14:40 - 15:00 13-O-11	Value Chain Dynamics in the Taiwan Orchid Industry	Sherrie Wei
15:00 - 16:00	Poster session II (even numbers)	
	Dinner on own	
<u>Thursday, 14 January 2010</u>		
Oral session VIII: Orchid micropropagation and seed germination		
8:40 - 9:10 14-V-1	Establishment of Large-scale Micropropagation System of <i>Anoectochilus formosanus</i> in Bioreactors (Invited)	Kee Yoeup Paek
9:10 - 9:30 14-O-1	The Development of Orchid Production in Israel	Duby Wolfson
9:30 - 9:50 14-O-2	Pollination, Seed Development and <i>In Vitro</i> Germination of <i>Cymbidium sinensis</i> 'Huang Dao'	Chen Chang
9:50 - 10:10 14-O-3	Effect of Banana Extracts on PLBs Proliferation and Growth of Different Orchid Hybrids	Maziah Mahmood
10:10 - 10:30 14-O-4	Micropropagation of a Rare Orchid <i>Dendrobium gratiosissimum</i> Rchb.f. Using Thin Cell Layers	Niramol Rangsayatorn
10:30 - 10:50	Break	
Oral session IX: Orchid biotechnology		
10:50 - 11:20 14-V-2	Genetic Transformation of Orchids (Invited)	Masahiro Mii
11:20 - 11:50 14-V-3	Studies on Synergism and Complementation of Long Distance Movement of <i>Cymbidium Mosaic Virus</i> RNA by <i>Odontoglossum Ringspot Virus</i> Coat Protein (Invited)	Sek-Man Wong

11:50 - 12:20 14-V-4	Decontamination of <i>Odontoglossum Ringspot Virus</i> and <i>Cymbidium Mosaic Virus</i> on Tools and Cultivation Environment of Orchids Using Culture Filtrate of <i>Streptomyces</i> spp. (Invited)	Chin-An Chang
12:20 - 13:20	Lunch	
Oral session X: Orchid biotechnology		
13:20 - 13:40 14-O-5	Regeneration and <i>Agrobacterium</i> -mediated Transformation of <i>Oncidium</i> and <i>Odontoglossum</i> with Ethylene Receptor Mutant Gene ETR1-1	Barbara Raffeiner
13:40 - 14:00 14-O-6	A Novel Functional Homodimer Geranyl Diphosphate Synthase for Scent Production in <i>Phalaenopsis bellina</i> (Orchidaceae) Flower	Yu-Yun Hsiao
14:00 - 14:20 14-O-7	Modification of <i>Phalaenopsis</i> Metabolism Through Genetic Engineering	Ying-Chun Chen
14:20 - 14:40 14-O-8	Molecular Mechanisms Underlying Orchid Floral Morphogenesis	Wen-Chieh Tsai
14:40 - 15:00 14-O-9	Molecular and Morphological Diversity in <i>Vanda tessellata</i> , an Epiphytic Orchid from the Eastern Ghats of India	Shaik Khasim
15:00 - 15:30	Closing Remarks	
17:00 - 19:00	Farewell party	
<u>Friday, 15 January 2010</u>		
8:00	Departure from the Splendor Studio	
8:30	Arrival at In-Charm Orchids Laboratory, which is a specialized <i>Paphiopedilum</i> grower in Taiwan (Taichung County). In In-Charm Orchids Laboratory, participants will visit the breeding facilities and the production of slipper orchids.	
10:00	Departure from In-Charm Orchids Laboratory	
11:30	Arrival at Ching Hua Orchids (Tainan County). At Ching Hua Orchids, a large variety of orchids are produced and grown in the greenhouses, including <i>Phalaenopsis</i> , <i>Cattleya</i> , <i>Paphiopedilum</i> , <i>Dendrobium</i> , Angraecoids, and <i>Bulbophyllum</i> .	

12:30	Lunch at the restaurant of Taiwan Orchid Plantation (Tainan County).
13:30	Visit the greenhouses at Taiwan Orchid Plantation (TOP). The establishment of TOP combines an industrial basis with biological science and technology resources. In TOP, participants will visit the modern system of <i>Phalaenopsis</i> plantlet cultivation and cut flower production.
15:00	Departure from Taiwan Orchid Plantation
16:00	Arrival at Floriculture Research Center, ARI, COA (Yunlin County). This center has been founded for breeding and environmental control research for Oriental plants. In this center, participants will visit the breeding and cultivation works of orchids.
17:00	Departure from Floriculture Research Center
18:00	Return to the Splendor Studio