

SCIENTIFIC PROGRAM

SESSION LECTURE

No.5

Plant Diversity and Ecological Civilization

Room: Swan Room 1

Co-Chairs :
Hang Sun



Hongzhi Kong



Christian Körner



Day 1 October 19th (Saturday) 14:00 – 17:30

Time	Speaker	Title
14:00-14:30	Christian Körner University of Basel, Switzerland	Variation is the essence of life
14:30-15:00	Komiljon Tojibaev Institute of Botany, Uzbekistan Academy of Sciences, Uzbekistan	Initiating effective Transboundary Conservation in Central Asia
15:00-15:30	Keping Ma Institute of Botany, Chinese Academy of Sciences, China	Mapping Asia Plants: progress and future priorities
15:30-16:00	Tea Break	
16:00-16:30	Hang Sun Kunming Institute of Botany, Chinese Academy of Sciences, China	The evolution of periglacial plant diversity on the Qinghai -Tibet Plateau and its response to global change
16:30-17:00	Hong Qian Illinois State Museum, USA	Phylogenetic structure in plant assemblages along elevational gradients
17:00-17:30	Hongwen Huang Lushan Botanical Garden , Jiangxi Province and Chinese Academy of Sciences, China	Ex situ flora vs. Ex situ conservation



Hang Sun

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CAS Academician and a Professor of Kunming Institute of Botany, Chinese Academy of Sciences. The aims of his main research focuses on the Qinghai-Tibet Plateau and its adjacent areas, integrating multiple disciplines from the genomic level to the ecosystem scale, to reveal the origin and evolution of plant diversity, species differentiation, adaptation mechanisms, and plant diversity protection in the Qinghai-Tibet Plateau.



Hongzhi Kong

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Professor at Institute of Botany, Chinese Academy of Sciences (CAS) and Director of State Key Laboratory of Systematic and Evolutionary Botany. Using morphological, phylogenetic, molecular, developmental, genomics and bioinformatics approaches, he and his research group devote to understanding how flowers and elaborate petals have got originated and diversified.



Christian Körner

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Prof. em. Christian Körner held a chair of Botany at the University of Basel, Switzerland from 1989-2014. He studies plant and ecosystem responses to their environment in all biomes, including water, nutrient and carbon relations. He aims at a functional understanding of biodiversity and chaired the Swiss Academy's climate change and biodiversity boards. His group conducted the first natural forest CO₂ enrichment experiments, and he leads an alpine research station in the Swiss Alps.



Komiljon Tojibaev

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Academician, Director of the Institute of Botany, Uzbekistan Academy of Sciences and Chairman of the Botanical Society of Uzbekistan. Achieved significant success in the inventory and digitalization of the flora of Central Asia, especially its Tian Shan part. He published one new genus and 30 new species (mainly from the genera *Allium* and *Tulipa*), which made important contributions to plant taxonomy and conservation of plant diversity in Central Asia. He is also a famous researcher of Central Asian Tulips and is a member of the IUCN Tulipa specialist group.



Keping Ma

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A professor of ecology in Institute of Botany, CAS, councilor of IUCN, Vice Chair and Secretary-General of Biodiversity Committee of CAS. He focuses on research of conservation biogeography and promote Biodiversity Informatics in China, initiated the Chinese Forest Biodiversity Monitoring Network (CForBio), Chinese Biodiversity Monitoring and Research Network (Sino BON) and Mapping Asia Plants (MAP). He has published more than 400 papers in journals including *Science*, *Science Advances*, *Nature Ecology and Evolution*, *PNAS*, *Ecology Letters* and *Ecology*.



Hong Qian

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He is the Curator of Botany at the Illinois State Museum. His research is multidisciplinary and particularly lies in areas of macroecology, biogeography, plant community ecology, community phylogenetics, and invasion ecology. His research involves a wide range of spatial scales (from local to global) and a variety of taxon groups (including bryophytes, vascular plants, mammals, birds, amphibians, reptiles, and fishes). He is particularly interested in the origin of the close relationship between the floras of eastern Asia and eastern North America, and similarity and difference in species composition among alpine floras worldwide.



Hongwen Huang

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Director of Lushan Botanical Garden and Secretary General of IABG. His career spans over 40 years in the arena of plant genetic resources and breeding. He is best known for his kiwifruit germplasm research and breeding. He developed and released novel yellow- or red-fleshed kiwifruit cultivars (*Actinidia chinensis*) grown worldwide in commercial production. His more recent research focused on Ex situ flora and plant conservation practices. Apart from his research, he actively advocated and passionately outspoken for conserving Chinese native plants. Professor Huang is the author of >300 papers, writer/editor of >40 books and holder of >20 patented or PVP granted cultivars.