

附录3 第19届国际植物学大会特邀报告  
Appendix 3 Invited lectures of the 19th IBC, 2017  
(资料来源: 第19届国际植物学大会网站 <http://www.ibc2017.cn/CN/>)

说明: PL—Plenary Lectures, KL—Keynote Lectures, PB—Public Lectures; 缩写字母后面的数字是同一组报告人按照姓氏拼音的顺序。

1. 植物分类与进化:



Spencer C. H. BARRETT

University of Toronto

CANADA

**Title:** Evolution of Plant Sexual Diversity

PL 1



Michael DONOGHUE

Yale University

USA

**Title:** On the exceptional value of model lineages in systematics and comparative biology

PL 3



Suzanne RENNER

University of Munich

GERMANY

**Title:** The origin of economically important species of *Cucumis*, *Citrullus*, and *Momordica* – combining Chinese genomics know-how and old European herbaria to find wild relatives

PL 9



Loren RIESEBERG

University of British Columbia

CANADA

**Title:** Plant Evolution in the Anthropocene

PL 10



Richard ABBOTT

University of St. Andrew

UK

KL 1

**Title:** Plant speciation across environmental gradients and the occurrence of hybrid zones

---



Erika EDWARDS

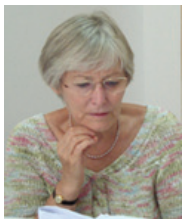
Brown University

USA

KL 10

**Title:** Distinct evolutionary dynamics of C4 and CAM photosynthesis

---



Else Marie FRIIS

Swedish Museum of Natural

History

SWEDEN

KL 11

**Title:** Early angiosperms: Key fossils and extinct diversity

---



De-Zhu LI

Kunming Institute of Botany,

CAS

CHINA

KL 19

**Title:** The quest for the origin and evolution of flowering plants using time-calibrated plastid phylogenomics

---



Susanne MAGALLÓN

National Autonomous

University of Mexico

MEXICO

KL 20

**Title:** Thirty clues to angiosperm exceptional evolutionary diversification

---



Hong MA  
Fudan University  
CHINA

KL 21

**Title:** Nuclear phylogenies of angiosperms at both deep and family levels: implications on divergence times, morphological evolution and diversification rates



Kevin THIELE  
Western Australian Herbarium  
AUSTRALIA

KL 27

**Title:** Thinking through the e- in e-Floras; or, Floras old, new, and not-yet



Jun WEN  
Smithsonian Institution  
USA

KL 28

**Title:** Developing integrative systematics in the informatics and genomic era



Tetsukazu YAHARA  
Kyushu University  
JAPAN

KL 32

**Title:** Diversity of tropical forests in South East Asia under the threat of rapid loss

---

## 2. 生态学:



Jing-Yun FANG  
Institute of Botany, CAS  
CHINA

PL 6

**Title:** Structural characteristics of forests and diversity of woody plants in China

---



Hans CORNELISSEN  
VU University Amsterdam  
NETHERLANDS

**Title:** Fitter with litter: plant traits and their legacy for ecosystem services

KL 8



Xing-Guo HAN  
Institute of Botany, CAS  
CHINA

**Title:** Long-term field experiments and observation data in combination in Inner Mongolia grasslands of China successfully addressed many fundamental questions in ecology

KL 14



Christian KÖRNER  
University of Basel  
SWITZERLAND

**Title:** Plant growth in a high CO<sub>2</sub> world

KL 16



John KRESS  
Smithsonian National  
Museum of Natural History  
USA

**Title:** Tropical Plant-Animal Interactions: Coevolution in the Anthropocene

KL 17

---

### 3. 植物保护:



Stephen BLACKMORE  
Royal Botanic Garden Edinburgh  
UK

**Title:** Saving Plants

KL 2

---



Hong-Wen HUANG

South China Botanical Garden,  
CAS  
CHINA

Ex situ Cultivated Flora and Germplasm  
**Title:** Discovery for Novel Crop Plants

KL 15

---



Didik WIDYATMOKO

Bogor Botanic Gardens-LIPI  
INDONESIA

Establishing New Botanic Gardens in  
**Title:** Indonesia: An ecoregion approach

KL 29

---



Peter WYSE JACKSON

Missouri Botanical Garden  
USA

International developments and responsibilities  
**Title:** for the botanical community in plant  
conservation

KL 30

---

#### 4. 大数据:



Pamela SOLTIS

University of Florida  
USA

Linking Heterogeneous Data in Botanical  
**Title:** Research

PL 11



Ke-Ping MA

Institute of Botany, CAS  
CHINA

**Title:** Mapping Asia Plants

KL 22

---



Douglas SOLTIS  
University of Florida  
USA  
KL 26

Mobilizing and integrating big data in analyses  
**Title:** of phylogenetic and spatial patterns of  
biodiversity



Xun XU  
Beijing Genomics Institute  
(BGI)  
CHINA  
KL 31

Big Data in Plant Genomics to Connect  
**Title:** Nature-derived Evolutionary Innovations with  
Future Precision Agriculture

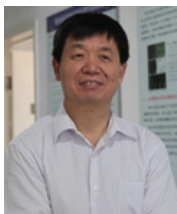
---

## 5. 组学在农业中的应用:



Michael BEVAN  
John Innes Centre  
UK  
PL 2

Applications of genomics to crop plant  
**Title:** improvement



Jia-Yang LI  
Institute of Genetics and  
Developmental Biology,  
CAS  
CHINA  
PL 7

Understanding the molecular basis of rice plant  
**Title:** architecture



Bin HAN  
Shanghai Institutes for  
Biological Sciences, CAS  
CHINA  
KL 13

Genetic basis of complex traits and heterosis in  
**Title:** rice

---



Yu-Xian ZHU

Peking University / Wuhan

University

CHINA

**Title:** Sequence assembly, evolution and functional application of the cotton genomes

KL 33

---

6. 遗传发育生理学:



Thomas DRESSELHAUS

University of Regensburg

GERMANY

**Title:** Fertilization Mechanisms: A Comparison of Eudicots and Grasses

PL 4



Joseph ECKER

Salk Institute for Biological

Studies

USA

**Title:** Deconstructing the Plant Regulatory Genome: Enabling Technologies

PL 5



Elliot MEYEROWITZ

California Institute of

Technology

USA

**Title:** Computational Morphodynamic Approaches to Pattern Formation in the Shoot Apical Meristem of *Arabidopsis*

PL 8



Jian-Kang ZHU

Shanghai Institutes for

Biological Sciences, CAS

CHINA

**Title:** Decoding the epigenetic language of life

PL 12



Ralph BOCK  
Max Planck Institute of  
Molecular Plant Physiology  
GERMANY

**Title:** Genes gone wild: Experimental evolution meets synthetic biology

KL 3



Xiao-Feng CAO  
Institute of Genetics and  
Developmental Biology, CAS  
CHINA

**Title:** Molecular mechanisms of histone demethylases in genome-wide targeting in Arabidopsis

KL 4



Xiao-Ya CHEN  
Shanghai Institutes for  
Biological Sciences, CAS  
CHINA

**Title:** Plant sesquiterpenes: biosynthesis and bio-interactions

KL 5



Xue-Mei CHEN  
University of California,  
Riverside  
USA

**Title:** Mechanisms of microRNA degradation

KL 6





Kang CHONG  
Institute of Botany, CAS  
CHINA

**Title:** *O*-GlcNAc signaling mediates vernalization sensing in wheat

KL 7



Xing-Wang DENG  
Peking University  
CHINA

**Title:** Seed Germination and Seedling Emerging Out of Soil: Life and Death Decisions

KL 9



Brandon S. GAUT  
University of California,  
Irvine  
USA

**Title:** Another Abominable Mystery: Gene-body Methylation

KL 12



Jane LANGDALE  
University of Oxford  
UK

**Title:** Understanding Kranz Anatomy in Maize with a View to Achieving C4 Rice

KL 18



Hong Gil NAM  
Institute for Basic Science /  
DGIST  
KOREA

**Title:** How do plants age and die? - some new insights

KL 23



Peter H. QUAIL  
University of California,  
Berkeley  
USA

**Title:** Phytochrome Photosensory Signaling and  
Transcriptional Networks

KL 24



Eugenia (Jenny) RUSSINOVA  
VIB-Ghent University  
BELGIUM

**Title:** Endocytosis and the regulation of signaling in  
plants

KL 25

---

## 7. 公众报告 Public Lectures (in alphabetical order by speaker)



Peter CRANE  
Yale University  
USA

**Title:** Ginkgo: An Evolutionary and Cultural

PB 1



Sandra KNAPP  
Natural History Museum  
UK

**Title:** People and Plants – the Unbreakable Bond

PB 2



Peter H. RAVEN  
Missouri Botanical Garden  
USA

**Title:** Saving Plants to Save Ourselves: The  
Shenzhen Declaration

PB 3

---



Barbara SCHAAL

Washington University

USA

**Title:** Plants and People: History and Future

PB 4

---



Huan-Ming YANG

BGI-China

CHINA

**Title:** Green Life, Beautiful Genes

PB 5

---