

## SCIENTIFIC PROGRAM

### SESSION LECTURE

No. 24

Plant and Environment

Room: 402A

Co-Chairs: Kang Chong



Dae-Jin Yun



Day 2 October 28<sup>th</sup> (Sunday) 13:30 – 17:00

Time	Speaker	Title
13:30-14:00	<b>Kang Chong</b> <i>Institute of Botany, Chinese Academy of Sciences, China</i>	How do plants feel the cold?
14:00-14:30	<b>Shuhua Yang</b> <i>China Agricultural University, China</i>	Phosphorylation-Regulated Plant Freezing Tolerance
14:30-15:00	<b>Miguel Botella</b> <i>University of Malaga, Spain</i>	Diacylglycerol homeostasis at the plasma membrane mediated by Synaptotagmins at endoplasmic reticulum-plasma membrane contact sites is essential for tolerance to multiple abiotic stresses
15:00-15:30	<b>Tea Break</b>	
15:30-16:00	<b>Dae-Jin Yun</b> <i>Konkuk University, Korea</i>	Epigenetic switch from repressive to permissive chromatin in response to cold stress
16:00-16:30	<b>Chengcai Chu</b> <i>Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China</i>	Improvement of Nitrogen Use Efficiency in Rice: from Theory to Practice
16:30-17:00	<b>Wenqiang Tang</b> <i>Hebei Normal University China</i>	Decoding Plant Heat Shock Signaling Mechanisms by Omics



### Kang Chong

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Prof. Chong is the vice director of Institute of Botany, Chinese Academy of Sciences (CAS), as well as a CAS Member. His current research activities are in three main areas: sensing chilling signal in rice, development response to vernalization signal in wheat and hormone (BR and GA) network in organogenesis.



### Dae-Jin Yun

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Prof. Yun at Konkuk university is a member of Korean Academy of Science & Technology. His research program focuses on unravelling the molecular mechanisms of plant responses to abiotic stress. He is particularly interested in epigenetic switch of chromatin in response to cold stress and the molecular mechanism of flowering in a stress environment.



### Shuhua Yang

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Professor Shuhua Yang is a professor in China Agricultural University. Her laboratory mainly focuses on the study of molecular mechanism of plant responses to low temperature, including identification of protein kinases involved in the cold signaling pathway, the integration of plant hormonal and light signals in the acquisition of cold tolerance, and the crosstalk of cold stress and other stress responses in plants.



### Miguel A. Botella

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Professor of Biotechnology at the University of Málaga, Dr. Miguel A. Botella has been interested in the molecular mechanisms that plants use to tolerate different environmental stresses such salinity, drought and cold. The research of this group has uncovered sensing mechanisms at the plasma membrane that are important for these responses.



### Chengcai Chu

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Dr. Chengcai Chu is a professor at the Institute of Genetics and Developmental Biology, Chinese Academy of Sciences. His research area is rice functional genomics and Agrobiotechnology, which mainly focuses on dissecting the molecular basis of complex traits such as leaf senescence, nutrient use efficiency etc using rice as a model system. He serves as the vice director of the State Key Laboratory of Plant Genomics.



### Wenqiang Tang

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Dr. Tang is a professor of Cell Biology at Hebei Normal University. The aims of His research are to understand the molecular mechanisms that mediate the high temperature signal transduction, from thermosensing to the regulation of gene expression in plants. He is particular interested in how circadian clock regulates plants' adaptation to diurnal fluctuations in high temperature.