



STATE KEY LABORATORY OF AGROBIOTECHNOLOGY (SKLA)
INSTITUTE OF PLANT MOLECULAR BIOLOGY AND
AGRICULTURAL BIOTECHNOLOGY (IPMBAB)
(CONCURRENT MEETING)



8:55 Opening Remarks (Prof. HM LAM, SKL Director)

Climate Smart Agriculture

- 9:00-9:11 DNA hypomethylation is one of the epigenetic mechanisms involved in salt-stress priming in soybean seedlings (Ms. Long Yiu CHAN, Prof. HM LAM)
- 9:11-9:22 Comparative GC-MS and LC-MS/MS Analysis of Terpenoids, Fatty Acids, and Flavonoids in Diverse Soybean Germplasm (Ms. Runmeng HU, Prof. P LIAO)
- 9:22-9:33 Sources of cytosolic NADPH in *Arabidopsis thaliana* (Ms. Danying LU, Prof. BL LIM)
- 9:33-9:44 Future CO₂, Ozone, and Climate Change Impacts on Terrestrial Productivity (Ms. Hongru WANG, Prof. APK TAI)
- 9:44-9:55 A phase-separating mRNA-binding protein enhances drought stress tolerance by stabilizing *GAD2* transcripts in *Arabidopsis* (Mr. Chuangfeng LIU, Prof. LM XIONG)
- 9:55-10:06 A gene regulatory network for Casparian strip formation in maize root exodermis (Mr. Weilun LIU, Prof. SL ZHONG)

Cell Biology and Cell Technology Platform

- 10:06-10:17 Identification and characterization of new regulators in regulating vacuole dynamics and vacuolar transports via the brassinosteroid signaling pathway (Ms. Chudi FAN, Prof. LW JIANG)
- 10:17-10:28 The roles of protochlorophyllide oxidoreductases (POR) and FZO-like protein (FZL) in *Arabidopsis* prolamellar bodies (PLB) biogenesis (Ms. Man Ip HO, Prof. BH KANG)
- 10:28-10:39 Impact of *Lhx1/5* Inactivation on Purkinje Cell Function: Ataxia and Disruption of Neurotransmitter Homeostasis (Ms. Le SHEN, Prof. KM KWAN)
- 10:39-10:59 **Group Photo and Break**
- 10:59-11:10 Investigation on the Role of Macrophages and Mitochondria in mediating Breast Cancer Progression (Ms. Yan Wah CHONG, Prof. FSY TSANG)
- 11:10-11:21 Characterization of autophagy-mediated organelle homeostasis in green alga *Chlamydomonas reinhardtii* (Ms. Yixin WU, Prof. XH ZHUANG)

Molecular Biology and Gene Technology Platform

- 11:21-11:32 Genomic study of underutilized legumes to accelerate orphan crop improvement (Ms. Tsz Yan CHEUNG, Prof. TF CHAN)
- 11:32-11:43 Dynamic DNA methylation during early embryogenesis in *Arabidopsis* (Ms. Wenjing WANG, Prof. DJ GUO)
- 11:43-11:54 Developing methods for spatial omics analysis in plants (Mr. Bingxu ZHANG, Prof. YJ XIA)
- 11:54-12:05 Identification of pesticidal PK/PBAN analogs for *Riptortus pedestris* (Ms. Ka Yin LAM, Prof. CK NGO)
- 12:05-12:16 Structure of UreE and UreG Reveals How Urease Accessory Proteins Facilitate Maturation of Urease in *Helicobacter pylori*. (Mr. Chun Long CHAN, Prof. KB WONG)
- 12:16-12:27 *Houttuynia cordata* Thunb. Extracts Alleviate Atherosclerosis and Modulate Gut Microbiota in Male Hypercholesterolemic Hamsters (Ms. Yuhong LIN, Prof. WT WONG)
- 12:27-12:38 Insect metamorphosis regulated differently between sexes by members of a microRNA cluster (Ms. Ki Kei CHAN, Prof. HL HUI)
- 12:38-12:49 Diurnal rhythm regulation on BCM1-mediated chlorophyll metabolism (Dr. Dali FU, Prof. P WANG)
- 12:49-13:00 Best Presentation Award and Final Remarks