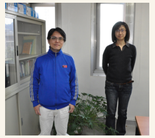
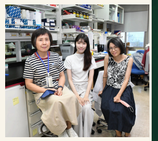
Core Facilities & Technical Support

State-of-the-art resources and expert support empower cutting-edge research.

Bioinformatics
Bioinformatics, statistics, high-performance computation, structure prediction



Genomic Technology
Genomics, transcriptomics, next generation sequencing, long-read sequencing



Cell Biology

Electron Microscope
TEM, SEM, Cryo SEM, HPF-FS, ultramicrotomy, negative staining, immunolabeling, freeze fracture/etching



Live-Cell-Imaging
Confocal microscopy, live-cell imaging, FLIM, image analysis, 3D reconstruction, quantitative microscopy



Comprehensive Flow Cytometry
Single-cell analysis, cell sorting (FACS), large-particle imaging & sorting



Proteomics
Proteomics, mass spectrometry, LC-MS/MS, quantitative proteomics, PTM proteomics, targeted proteomics



Small Molecule Metabolomics
Metabolomics, LC-MS/MS, GC-MS, phytohormones



Plant Growth Facility & Experimental Farm
Growth facility, rice field, experimental farm



IPMB

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IPMB

Institute of Plant and Microbial Biology

Academia Sinica

Advancing Plant and Microbial Science for a Sustainable Future

About IPMB

The Institute of Plant and Microbial Biology (IPMB) at Academia Sinica is committed to advancing fundamental knowledge of plant and microbial systems and contributing to science, agriculture, and environmental sustainability. With roots dating back to 1944, IPMB brings together more than 20 research laboratories and state-of-the-art core facilities, fostering interdisciplinary research, international collaboration, and scientific training.

History & Milestones

- **1944** Institute of Botany established
- **1962** Reestablished in Taiwan
- **1974** Hsien-Wen Li Memorial Hall constructed
- **2005** Renamed the Institute of Plant and Microbial Biology
- **2009** Agricultural Technology Building completed
- **2024** Celebrated the Institute's 80th anniversary

Our Research

Chromosome, Genome, and Systems Biology
Studying genomes, gene regulation, and biological systems through omics, imaging, and computational approaches.

Cell and Developmental Biology
Understanding cellular functions, signaling, metabolism, growth, and developmental processes in plants and microorganisms.

Plant-Environment Interactions
Investigating how plants perceive environmental cues, respond to stress, and adapt to changing conditions.

Plant and Environmental Microbiology
Characterizing microbial diversity, plant immunity, and plant-microbe interactions in natural and agricultural environments.

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2025 Academic Advisory Committee Meeting