







Engaging Research Postgraduate (RPG) Students to Develop and Produce Micro-Modules for Protein Trafficking, Biological Electron Microscopy and Live Cell Imaging

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Project Objectives

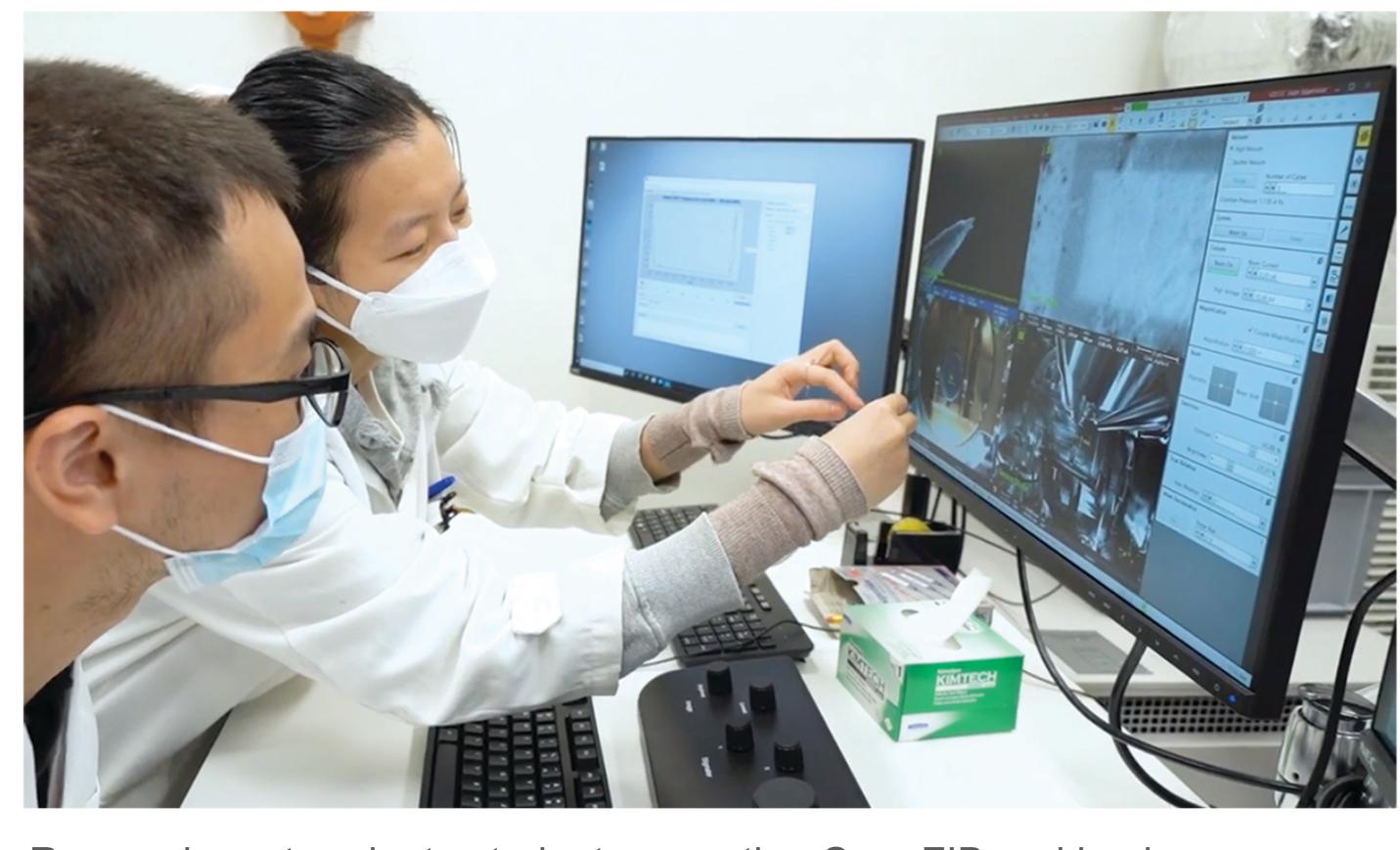
To achieve the strategic goal of the University Strategic Plan 2025 in further engaging postgraduate students in teaching and teaching development, in this project we aim to engage research postgraduate (RPG) students from Prof. Jiang and Prof. Kang's research groups in developing new teaching materials using our newly established advanced platforms of Cryo-FIB/CLEM (Focused Ion-Beam/Correlative Light and Electron Microscopy) and new research findings.



Research postgraduate students operating SP8 confocal microscope with lightsheet function under the supervision of Prof. Jiang.

Engaging RPG Students in Teaching

Research Postgraduate (RPG) students were recruited as student helpers to produce micro-modules under the supervision of Prof. Jiang and Prof. Kang. While developing the micro-modules, senior RPG students who were responsible have reinforced the background knowledge and explained the knowledge in a way that junior students can understand easily. It has served as a valuable experience in teaching and will be useful in their further career.

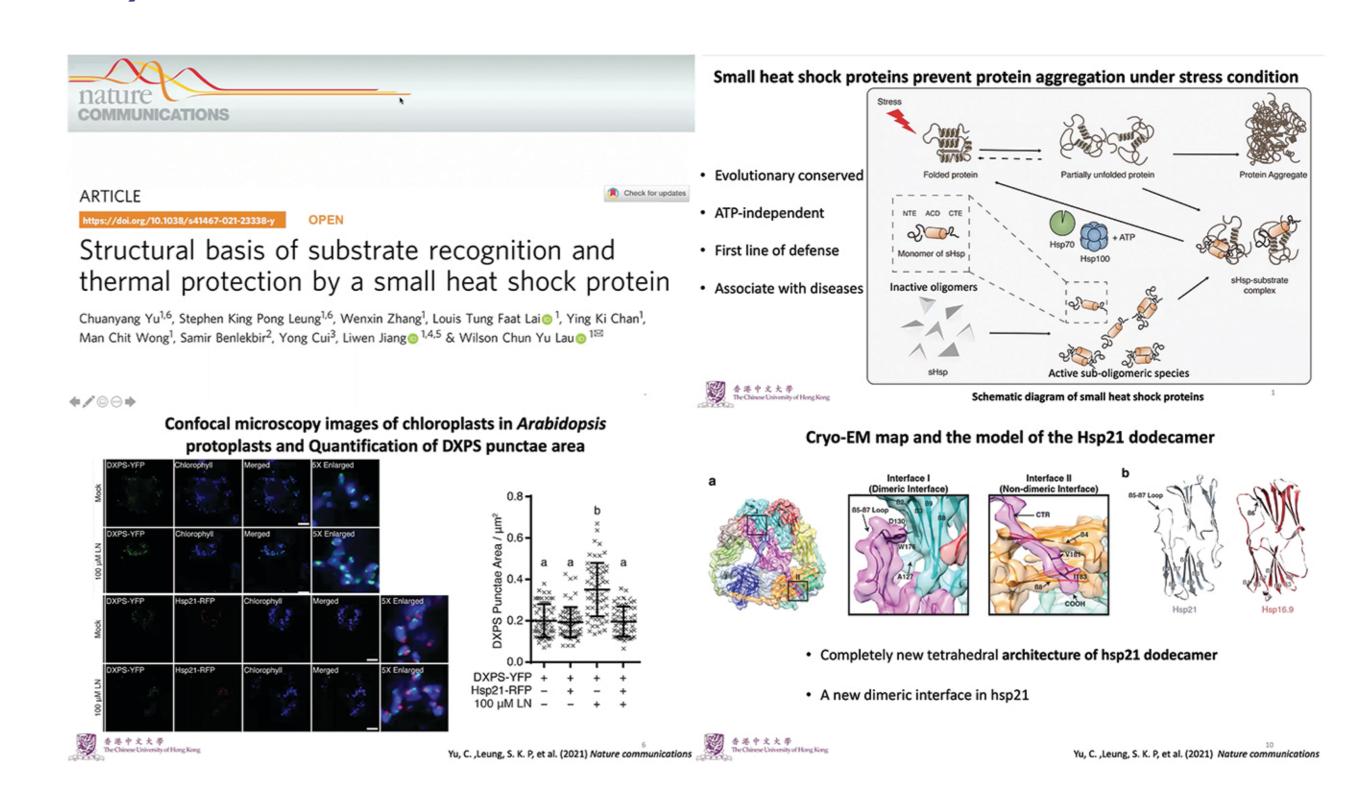


Research postgraduate students operating Cryo-FIB and having discussion on the experiments.

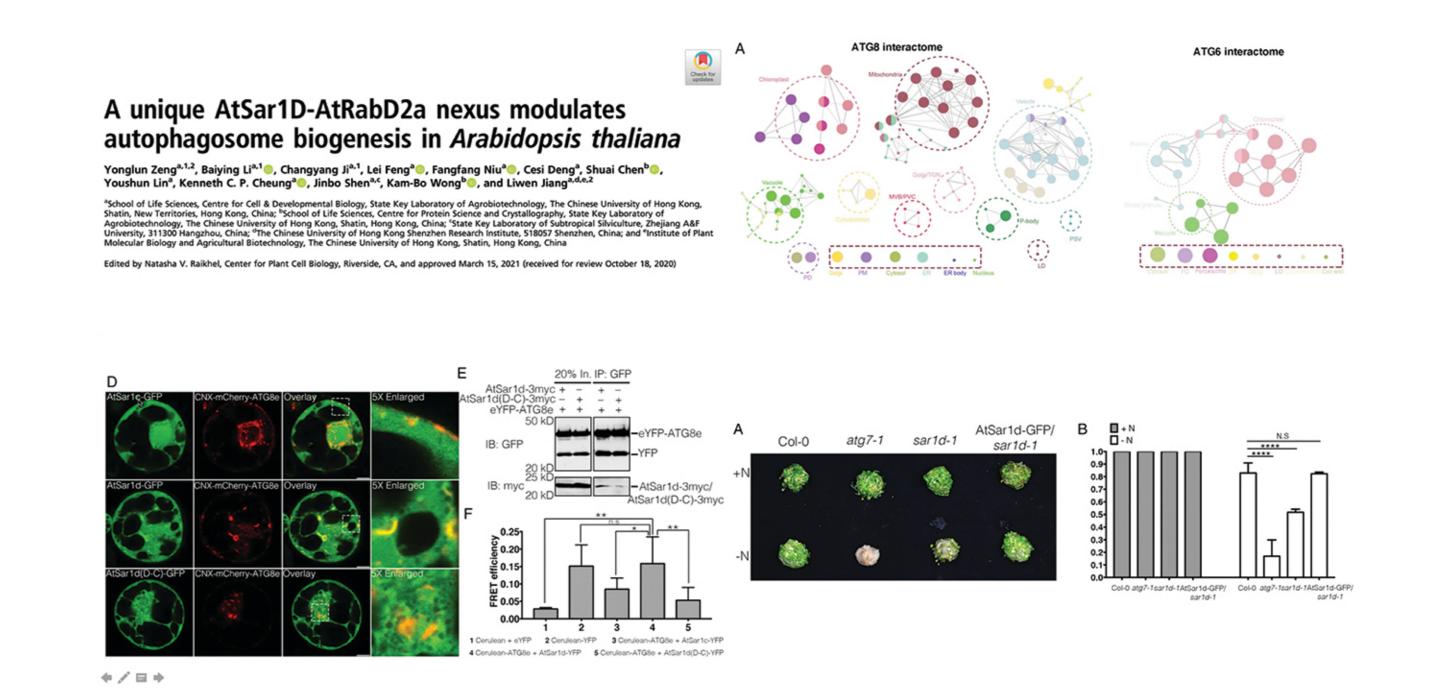
Micro-Modules

In this project, 10 Publication Videos and 2 Experiment Videos have been generated. They covered a variety of research findings and experimental techniques. Exampes are included as below:

A. Structural basis of substrate recognition and thermal protection by a small heat shock protein (Publication Video)



B. A unique AtSar1D-AtRabD2a nexus modulates autophagosome biogenesis in Arabidopsis thaliana (Publication Video)



C. High-Pressure Freezing (Experiment Video)

