



生命科學學院



Self-learning Toolkit for Undergraduate Students to Facilitate Their Understanding of the Latest Scientific Discoveries

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Summary

This project aims to promote and illustrate 1.) selected scientific publications derived from our research projects and 2.) advanced experimental techniques related to CMB laboratory teaching. During the 3 years project period, we have developed a self-learning toolkit which comprise of 26 research videos to enhance students' understanding of the current research discoveries.

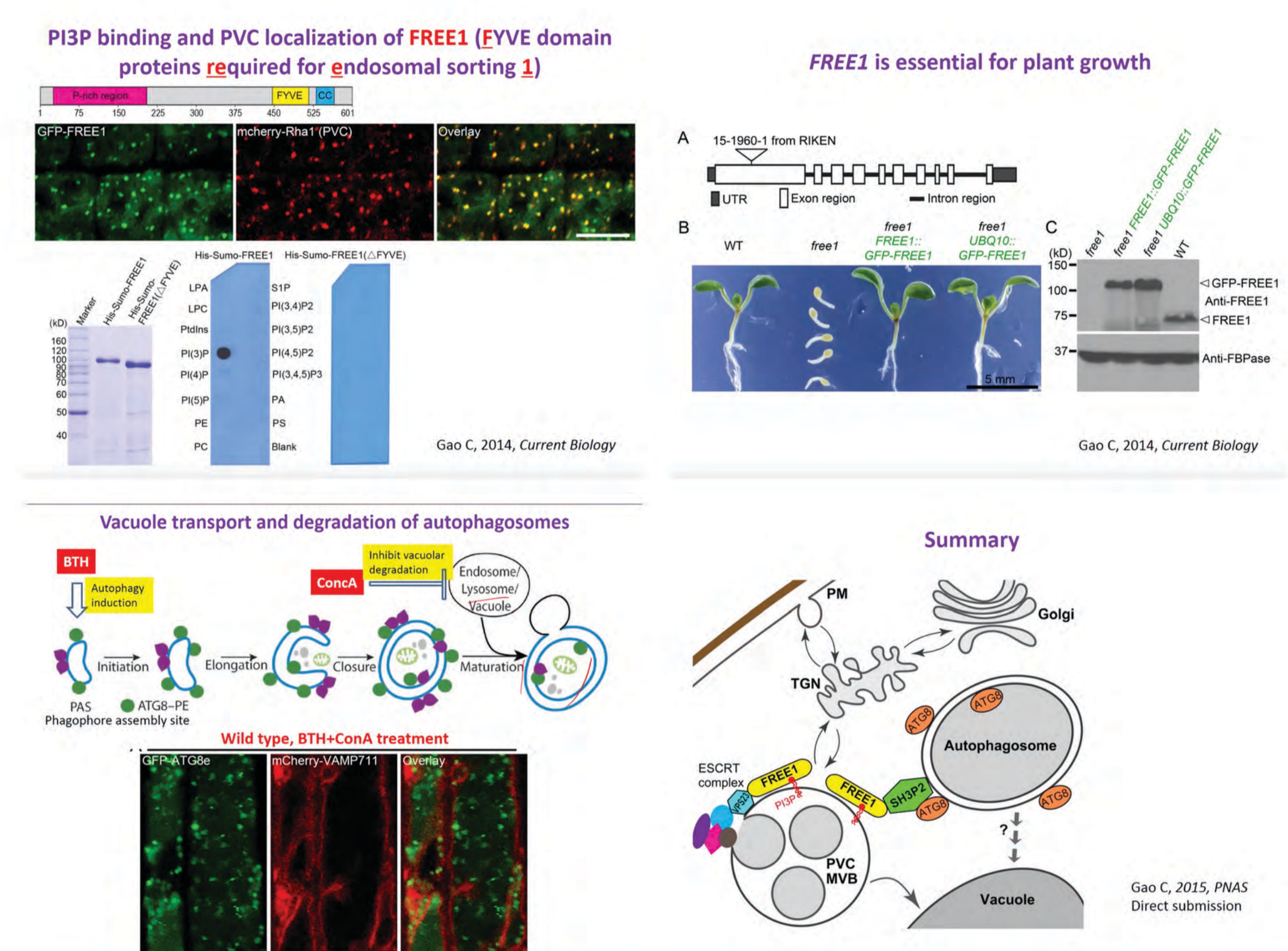


Prof. Jiang and first authors of protein trafficking-related publications having discussion on experimental findings

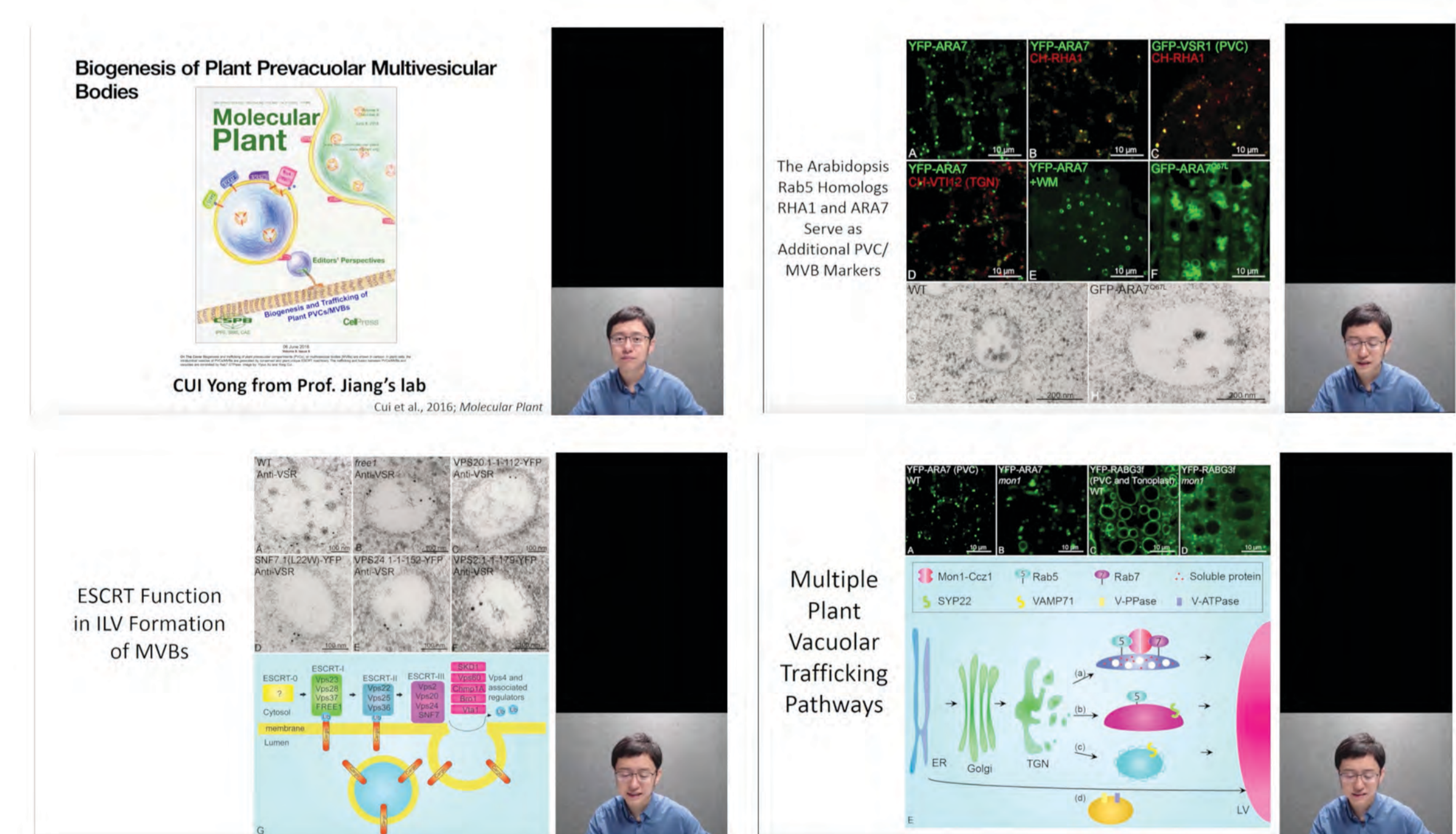
Self-learning Videos

In this project, 18 Publication Videos and 8 Experimental Videos have already been generated. They covered a variety of research findings and experimental techniques. Examples are included as below:

A. FREE1: a magic plant protein (Publication Video)



B. Activation of the Rab7 GTPase by the MON1-CCZ1 Complex is Essential for PVC-to-Vacuole Trafficking and Plant Growth in Arabidopsis (Publication Video)

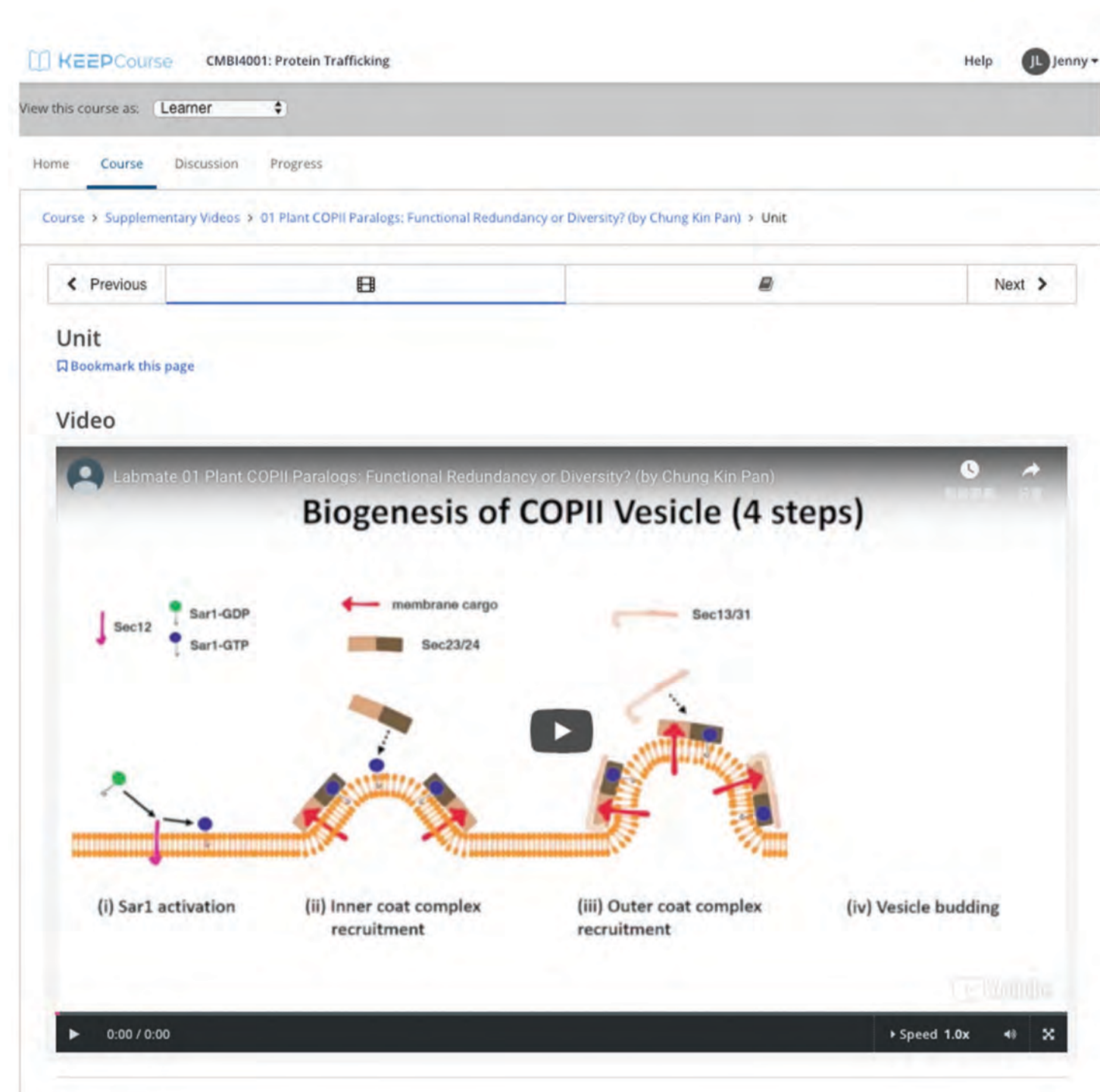


C. Introduction to Animal Cell Culture Techniques (Experimental Video)



Online Learning Platforms

The publication videos and the related publications have been uploaded to the KEEP online platform for students taking the course CMBI4001 to view before lectures. The experimental videos were uploaded to the Panopto online platform for students taking CMBI3010 and CMBI3020 laboratory courses. The videos were also uploaded to a public-accessible website to share the eLearning resource to other students in CUHK or from other institutions who are interested in the topics.



Interface of the KEEP online platform and public-accessible website