

Our project has developed 18 micro-modules that comprised of online videos which introduce selected scientific publications derived from RGC-funded CUHK research that are related to the course contents of CMBI4001 Protein Trafficking.

This course covers the general principles of protein trafficking and has a pedagogical goal to share with students the current developments in protein trafficking research via discussions and presentations. Students are expected to develop lifetime knowledge, critical thinking ability and skills in scientific methodology and problem solving. While the general principles of protein trafficking can be taught in lectures, the knowledge related to recent scientific discoveries in this area are much richer and more challenging. In this project, we developed micro-modules from our recent research findings published in prestigious international journals that are related to protein trafficking in both animal and plant cells. The micro-modules comprised of online videos explaining the details of the background information and research data of the publications.

The videos and the related publications have been uploaded to the KEEP online platform. Students taking the course CMBI4001 Protein Trafficking were required to watch the videos before lectures, so that they can learn by themselves via watching the videos and have basic understandings of the related publications before the lectures for discussion. As a result, they can have more intensive and deep discussion about the latest research development during valuable lecture time. The micro-modules-based learning mode also allows students to have the most up-to-date knowledge on the latest research findings in this field. 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.