

Protein Dynamics and Organelle Biogenesis in Plant Cells



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Abstract

Protein dynamics and organelle biogenesis are important topics in plant cell biology. One of the major research programs in my laboratory has been focused on the identification and molecular characterization of plant prevacuolar compartment (PVC) and endosomal compartment (EE) for their roles in mediating protein transportation in the secretory and endocytic pathways. In this talk, I will first present our approaches being used to study protein trafficking and organelle dynamics in plant cells. I will then use our studies on the identification and characterization of PVC and EE as examples to illustrate the efforts and limitations of our studies.

Biography of Speaker

Dr. Jiang is currently a Professor at the Department of Biology of CUHK. He obtained his B.Sc. in 1984 from South China Agricultural University and M.Sc. in 1991 from University British Columbia. After obtaining his Ph.D. from Simon Fraser University in 1996, he then worked as a postdoctoral research associate for four years at the Institute of Biological Chemistry of Washington State University. Dr. Jiang became an Assistant Professor of CUHK in 2000 and Professor since 2007. Dr. Jiang's research interest has been focused on protein targeting and organelle biogenesis in plant cells, as well as their potential application in plant biotechnology.

Key references

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