

Curriculum Vitae

Emily Jie-Ning Yang

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EDUCATION

- 2017.07 **Ph.D. in Biology (with Minor in Cell Biology)**
Department of Biology, Duke University, Durham, NC, USA
Supervisor: Dr. Meng Chen
Thesis Title: "Mechanism of Light Signaling in Controlling Chloroplast Biogenesis"
- 2011 **B.S. in Life Science**
Department of Life Science, National Taiwan University, Taipei, Taiwan

RESEARCH EXPERIENCE

- 2012–
Present **Graduate Research Assistant**
Plant Photobiology Laboratory, Duke University, Durham, NC, USA
Supervisor: Dr. Meng Chen
- Characterized the function of RCBL in *Arabidopsis* by genetic approach
 - Obtained homologous sequences of RCBL and constructed phylogenetic tree to demonstrate the evolution history of RCBL gene
 - Utilized fluorescence protein fusion, immunohistochemistry, biochemical fractionation methods to study the subcellular localization of RCBL
 - Purified affinity tagged RCBL protein and performed enzymatic activity assay and affinity chromatography to determine the biochemical function of RCBL
 - Monitored the localization of endogenous genes in the nucleus by padlock FISH technique
- 2009 –
2011 **Undergraduate Research Assistant**
Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan
Supervisor: Dr. Shu-Hsing Wu
"Characterization of Time and spatial expression of LIGHT-REGULATED ZINC FINGER PROTEIN 1 (LZF1) in *Arabidopsis*"

HONORS AND AWARDS

- 2017 **Herbert Tabor Young Investigator Award**, Journal of Biological Chemistry
- 2017 **International Conference on Arabidopsis Research Travel Grant**, the North American Arabidopsis Steering Committee (NAASC)
- 2016 **Graduate School Summer Research Fellowship**, Graduate School, Duke University
- 2015 **Departmental One-semester Fellowship**, Biology Department, Duke University
- 2015 **Departmental Grant-in-aid Fellowship**, Biology Department, Duke University
- 2015 **Graduate School Conference Travel Grant**, Graduate School, Duke University
- 2014, **Summer Mentorship, Howard Hughes Medical Institute Vertically Integrated**
- 2013 **Partners program**, Duke University

HONORS AND AWARDS (continues)

- 2011 **Braddock Graduate Scholarship (*Declined*)**, Plant Biology Program, Huck Institute of the Life Sciences, Pennsylvania State University
- 2011 **Best Poster Award**, Life Science Department, National Taiwan University
- 2010 **Undergraduate Research Fellowship**, R.O.C. National Science Council Grant # 99-2815-C-001 -004-B, Taipei, Taiwan
- 2009 **Summer Undergraduate Internship Program**, Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan

PUBLICATIONS

Yang, E.J., Yoo, C.Y., Wang, H., Cao, J., Weigel, D., Liu, J., Zhou, P., Chen, M. (in prep) REGULATOR-OF-CHLOROPLAST-BIOGENESIS-IN-LIGHT-SIGNALING is a nuclear and plastidial dual-targeted molecule required for phytochrome signaling and chloroplast biogenesis in *Arabidopsis*.

Feng, C.-M., Qiu, Y., Van Buskirk, E.K., Yang, E.J., Chen, M. (2014) Light-regulated gene repositioning in *Arabidopsis*. *Nat Commun* 5:3027 doi: 10.1038/ncomms4027.

CONFERENCE PRESENTATION

2017 International Conference on Arabidopsis Research in St. Louis, Missouri: Oral and Poster Presentation “REGULATOR-OF-CHLOROPLAST-BIOGENESIS-LIKE: a nuclear and plastidial dual-targeted protein required for phytochrome signaling and chloroplast biogenesis in *Arabidopsis*”

2015 American Society of Plant Biology Annual Meeting in Minneapolis: Poster Presentation “DAUGHTER-OF-HEMERA: a nuclear and plastidial dual localized protein required for phytochrome signaling in *Arabidopsis*”

TEACHING AND MENTORING EXPERIENCE

- 2012 Fall, **Teaching Assistant, Molecular Biology**
2013 Spring, Duke University, Durham, NC, USA
2015 Spring,
 - Led weekly laboratory sessions with 15-20 students
2017 Spring
 - Instructed the background knowledge of generating the yeast genomic library, sequencing and identifying gene in the cloned yeast genomic DNA
- 2014 Spring, **Teaching Assistant, Cell and Developmental Biology**
2014 Fall, Duke University, Durham, NC, USA
2015 Fall
 - Led weekly discussion sessions with 10-20 students
 - Assisted students to reinforce and practice course materials in exam style
 - Wrote and graded homework assignments and exams
- 2016 Summer **Graduate Mentor, NSF-funded Research Experience for Undergraduates**
University of California, Riverside
 - Mentored student: Brooke Gomez, “Mechanism of Sorting Dual-Localized Proteins in the Plant Cell”
- 2014 Summer, **Graduate Mentor, Howard Hughes Vertically Integrated Partners Program**
2013 Summer Duke University
 - Mentored students: Megan Mengyun Lu (2013), “The mechanistic interactions between PHYTOCHROME INTERACTING FACTORS and HEMERA in regulating growth-promoting gene expression”

- Mentored students: Anna Jiang (2014), “Functional characterization of phytochrome B D1040V mutation in phytochrome suborganellar targeting”

LEADERSHIP EXPERIENCE

- 2012.01-
2012.03 **Graduate Student Recruitment Committee**
Biology Department, Duke University, Durham, NC, USA
- Organized activities for departmental graduate student recruitment week
- 2012.03-
2013.03 **President of Taiwanese Student association**
Duke University, Durham, NC, USA
- Provided and assigned hosts for incoming Taiwanese student to help them acclimate new environment
 - Organized Taiwanese mini-symposium to enhance intellectual communication and inter-disciplinary collaboration between Taiwanese scholars in Duke University