

## Polly Yingshan Hsu

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### Education

- 2007-2013 Ph.D. Plant Biology, University of California, Davis, CA  
2004-2006 M.S. Genetics, National Yang-Ming University, Taipei, Taiwan  
2000-2004 B.S. Botany, National Taiwan University, Taipei, Taiwan

### Research Positions

- Aug 2013- Postdoctoral Associate. Duke University, Durham, NC. Advisor: Philip Benfey.  
2007-2013 Graduate Researcher. University of California, Davis, CA. Advisor: Stacey Harmer.  
2006-2007 Research Assistant. National Taiwan University, Taipei, Taiwan. Advisor: Chun-Neng Wang.  
2004-2006 Graduate Researcher. Academia Sinica, Taipei, Taiwan. Advisor: Yi-Fang Tsay.

### Publications

8. Jennifer A. Gray, Akiva Shalit-Kaneh, Dalena Nhu Chua, **Polly Yingshan Hsu**, Stacey L. Harmer. (2017) The REVEILLE clock genes inhibit growth of juvenile and adult plants by control of cell size. **Plant Physiology**. PMID: 28254761.
7. **Polly Yingshan Hsu**, Lorenzo Calviello, Hsin-Yen Larry Wu, Fay-Wei Li, Carl J. Rothfels, Uwe Ohler and Philip N. Benfey. (2016) Super-Resolution Ribosome Profiling Reveals Novel Translation Events in Arabidopsis. **Proc. Natl. Acad. Sci. USA**. PMID: 27791167.
6. **Polly Yingshan Hsu** and Stacey L. Harmer. (2014) Global profiling of the circadian transcriptome using microarrays. **Methods in Molecular Biology**. PMID: 24792043.
5. **Polly Yingshan Hsu** and Stacey L. Harmer. (2014) Wheels within wheels: the plant circadian system. **Trends in Plant Science**. PMID: 24373845. *\*Top 10 articles in 2014 in TIPS*
4. **Polly Yingshan Hsu**, Upendra K. Devisetty and Stacey L. Harmer. (2013) Accurate timekeeping is controlled by a cycling activator in Arabidopsis. **eLife**. PMID: 23638299. *\*Editors' choice, \*Featured in eLife, \*F1000 Prime Recommended Article*
3. **Polly Yingshan Hsu** and Stacey L. Harmer. (2012) Circadian phase has profound effects on differential expression analysis. **PLoS ONE**. PMID: 23185460.
2. Reetika Rawat, Nozomu Takahashi\*, **Polly Yingshan Hsu**\*, Matthew A. Jones, Jacob Schwartz, Michelle R. Salemi, Brett S. Phinney, and Stacey L. Harmer. (2011) REVEILLE8 and PSEUDO-REPONSE REGULATOR5 form a negative feedback loop within the Arabidopsis circadian clock. **PLoS Genetics**. PMID: 21483796. *\*contributed equally*
1. **Ying-Shan Hsu**, Shiang-Jiun Chen, Chin-Mei Lee, and Ling-Long Kuo-Huang. (2005) Anatomical characteristics of the secondary phloem in branches of *Zelkova serrata* Makino. **Bot. Bull. Acad. Sin.** 46:143-149 <http://ejournal.sinica.edu.tw/bbas/content/2005/2/Bot462-07.pdf>

## **R software package**

Hsin-Yen L. Wu, [Polly Yingshan Hsu](#) and Philip N. Benfey. "RootMap: Visualization of Cell-type and Tissue-Specific Gene Expression Data in Arabidopsis Root". *Will be officially released once the data used in the package is published.*

## **Honors and Awards**

- 2015-2017 USDA NIFA Postdoctoral Fellowship (\$145,668)
- 2016 Best oral presentation, Post-transcriptional Gene Regulation in Plants, Austin, TX
- 2015 Plant Proteomics Workshop Travel Award, Madison, WI (\$800)
- 2013 Best oral presentation, Western section of ASPB, Davis, CA (\$250)
- 2012 Asian-Pacific Developmental Biology Conference Travel Fellowship, Taiwan (\$500)
- 2012 Elsie Taylor Stocking Travel Fellowship, UC Davis (\$1,200)
- 2011 Summer Institute in Statistical Genetics, Tuition and Travel Scholarship, Seattle, WA (\$1,200)
- 2009 Elsie Taylor Stocking Research Fellowship, UC Davis (\$3,500)
- 2007-2009 Taiwan Merit Scholarship (\$60,000)
- 2006 Excellent Thesis Award in NYMU, Taiwan
- 2005 Albert Ly-young Shen Memorial Medical Scholarship, Taiwan
- 2003 Research Creativity Award/Scholarship, National Science Council, Taiwan (\$8,000)
- 2003 Excellent Poster in R.O.C. Microscope Symposia, Taiwan
- 2002- 2003 Presidential Award at NTU, Taiwan (Top 5% of the class)

## **Conference Oral Presentation**

- 2016 Post-transcriptional Gene Regulation in Plants, Austin, TX (Best oral presentation)
- 2016 Gordon Research Seminar, Holderness, NH
- 2016 Plant and Animal Genome Conference, San Diego, CA
- 2013 Western section of ASPB, Davis, CA (Best oral presentation)
- 2012 American Society of Plant Biology, Austin, TX
- 2010 NAIST International Student Workshop, Nara, Japan

## **Conference Poster Presentation**

- 2016 Solanaceae Genomics Conference, Davis, CA
- 2016 Translational Control, CSHL, NY
- 2016 Post-transcriptional Gene Regulation in Plants, Austin, TX
- 2016 Gordon Research Conference, Holderness, NH
- 2015 American Society of Plant Biology, Minneapolis, MN
- 2015 Plant Proteomics Workshop, Madison, WI
- 2015 EMBO Protein Synthesis Meeting, Heidelberg, Germany
- 2012 International Conference on Systems Biology, Toronto, Canada
- 2012 Asian-Pacific Developmental Biology Conference, Taipei, Taiwan
- 2012 American Society of Plant Biology, Austin, TX
- 2005 American Society of Plant Biology, Seattle, WA