

KELSEY GALIMBA
kgalimba@gmail.com
2217 Wiltshire Road
Kearneysville, WV 25430
(304) 725-3451 Ext. 367

EDUCATION

Doctorate of Philosophy, University of Washington, Seattle, June 2015
Bachelor of Science, Plant Biology, University of California, Davis, June 2007
Associate of Science, Biology, Sierra College, Rocklin, June 2005

RESEARCH EXPERIENCE

Post-Doctoral Associate

(October 2015 - Present) Callahan Lab, USDA-ARS Appalachian Fruit Research Station (AFRS), Kearneysville, WV.

Comparative study of fruit flesh development in Rosaceous species. Developmental ontogenies to define morphological and anatomical events to guide transcriptome analysis by RNA-seq. Candidate gene characterization by targeted gene silencing (RNAi and CRISPR) and overexpression analysis in plum.

Developmental Biology Trainee (NIH) / Research Assistant (July 2012 - 2015) /

(September 2009 – 2015) Di Stilio Lab, Department of Biology, University of Washington, Seattle, WA.

Characterization of duplicated floral organ identity genes in the basal eudicot *Thalictrum*, using an evo-devo approach. Gene characterization including expression analysis by qPCR and *in situ* hybridization, phylogenetic and molecular evolution analyses, targeted gene silencing using VIGS, and assessment of protein binding ability using Y2H.

Junior Specialist II (June 2007 - August 2009) Sundaresan Lab, Department of Plant Biology, University of California, Davis, CA.

Supervision of a large-scale rice genomics project to generate insertion lines for use in gene identification and characterization. 96-well DNA extraction, ligation, adapter-PCR, gel electrophoresis, sequence analysis, and filling seed requests. Management of all greenhouse plant production associated with the project. Additional involvement in an *Arabidopsis* transformation project as well as a soil metagenomics project. In addition to research, performance of lab manager tasks including supply ordering and general lab support duties.

Laboratory Assistant (July 2006 - June 2007) Strong Lab, Department of Evolution and Ecology, University of California, Davis, CA.

DNA extraction, spectrophotometry, PCR and gel electrophoresis of *Spartina* samples. Scoring of electrophoresis gels and analysis of banding patterns to identify hybrid species.

FELLOWSHIPS AND AWARDS

The Katherine Esau Award (Botany, Summer 2015)

Developmental & Structural Section Best Student Presentation Award (Botany, Summer 2014)

Developmental Biology Training Grant, NIH (Summer 2012 – Summer 2015): 3 years of support
Best Graduate Student Presentation Award, UW Department of Biology (Summer 2012)
University of Washington, Plant Biology Fellowship (Fall 2009): 2 quarters of support
University of Washington, Natural Sciences Deans Fellowship (Fall 2009)

PUBLICATIONS

Galimba, K.D., Tolkin, T.R., Sullivan, A.M., Melzer, R., Theißen, G., and Di Stilio, V.S. (2012). Loss of deeply conserved C-class floral homeotic gene function and C- and E-class protein interaction in a double-flowered ranunculid mutant. *Proc. Natl. Acad. Sci. U.S.A.* *109*, E2267–E2275.

Galimba, K.D., and Di Stilio, V.S. (2015). Sub-functionalization to ovule development following duplication of a floral organ identity gene. *Developmental Biology*. *405*, 158–172.

Galimba, K.D., Martínez-Gomez J., Di Stilio V.S. (in review) Gene duplication and functional divergence in the *APETALA3* lineage of floral organ identity genes.

TEACHING EXPERIENCE

Teaching Assistant, (March 2010 – December 2011) Department of Biology, University of Washington.

Introduction to Mycology (Winter 2011)

Introduction to Biology 220 (Summer 2011)

Morphology and Anatomy of Land Plants (Fall 2010, 2011)

Introduction to Biology 180 (Spring 2010)

GUEST LECTURES

Plant Identification and Classification: *Genetics of Floral Development, an Evo-Devo Approach* (2014, 2013), *Floral Evolution and Development* (2012), *Angiosperm Evolution and Development* (2011)

Developmental Biology: *Flower Patterning* (2012)

Morphology and Anatomy of Land Plants: *Evolution and Development of the Flower* (2011)

PRESENTATIONS: TALKS

Galimba, K. *Duplication and Functional Divergence in the Floral Organ Identity Genes*. AFRS Honorarium, Kearneysville (November 2015)

Galimba K., Martínez-Gomez J., Di Stilio V. *Duplication and functional divergence in the floral organ identity genes*. Botany, Edmonton (July 2015)

Galimba K. *Duplication and functional divergence in the floral organ identity genes*.

Developmental Training Grant Spring Retreat, Seattle (April 2015)

Galimba K. *Gene duplication and neo-functionalization in the APETALA3 lineage of floral organ identity genes in a non-core eudicot*. 2014 Developmental Training Grant Spring Retreat, Seattle (April 2014)

Galimba K., Di Stilio V. *Evolution of ovule identity following gene duplication in the AGAMOUS lineage of a Ranunculid.* Botany, New Orleans (July 2013)

Galimba K. *Evolution of ovule identity following gene duplication in the AGAMOUS lineage in Ranunculaceae.* Northwest Developmental Biology Conference, Friday Harbor (March 2013)

Galimba K. *Functional diversification following gene duplication in the AGAMOUS family of floral MADS-box genes in the ranunculid *Thalictrum thalictroides*.* UW Biology Departmental Retreat, Friday Harbor (September 2012)

PRESENTATIONS: POSTERS

Galimba K., Heise J., Callahan A., Dardick C., Liu Z. *Developmental mechanisms underlying fleshy fruit diversity in Rosaceae.* Mid-Atlantic Plant Molecular Biology Society Conference (August 2016)

Galimba K., Martínez-Gomez J., Di Stilio V. *Gene duplication and neo-functionalization in the APETALA3 lineage of floral organ identity genes in a non-core eudicot.* Society for Developmental Biology 73rd Annual Meeting (July 2014) and Botany (July 2014)

Galimba K., Di Stilio V. *Functional diversification following gene duplication in the AGAMOUS family of floral MADS box genes.* Northwest Developmental Biology Conference (March 2012)

Galimba K., Conrad L., Kumar S., Qu S., Radhomony R., Hogan P., Desai A., Collura K., Wing R., Sundaresan V. *Transposon Insertion Lines for Rice Functional Genomics.* Plant Cell Biology Retreat, Pacific Grove (September 2008)

PROFESSIONAL DEVELOPMENT

Arnold Arboretum Plant Morphology 2014: Linking Phenotype to Development, Summer Workshop, Harvard University, Boston (June 2013)

OUTREACH

Scientist Mentor for Planting Science (September 2016 - Present)

Summer Bioinformatics Workshop for High School Teachers, (August 2016)

Mentor for Society for Developmental Biology, Choose Development! (August 2013 - June 2015)

Mentor for UW Genomics Outreach for Minorities-ALVA Summer Research Program. (2010 - 2012)

NSF National Lab Day (May 2010)

SOCIETAL MEMBERSHIPS

Society for Developmental Biology (2013 - Present)

American Association for the Advancement of Science (2013 - Present)

Botanical Society of America (2012 - Present)

REFERENCES

Available upon request