Randi A. Famula, MSc

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EDUCATION

MSc – Horticulture and Agronomy
University of California, Davis, June 2017
Thesis: Association Genetics of Carbon Isotope Discrimination in the Founding Individuals of a Breeding Population of *Juglans regia L.*
Advisor: Dr. David Neale, Dept. of Plant Sciences

BS – Biotechnology
University of California, Davis, June 2010
Research: Arabidopsis seed tissue/compartment seed development
Advisor: Dr. John Harada, Dept. of Plant Biology

RESEARCH EXPERIENCE

Assistant Specialist, Strawberry Breeding Program
University of California, Davis, CA
September 2017 - Present

Graduate Student Researcher, Walnut Breeding Program
University of California, Davis, CA
September 2015 – June 2017

Assistant Specialist, Lab of Dr. David Neale
University of California, Davis, CA
August 2010 – September 2017

Biotechnology Field Group Summer Intern, Monsanto
Woodland, CA
June 2010 – August 2010

Undergraduate Research Intern, Lab of Dr. John Harada
University of California, Davis, CA
September 2009 – June 2010

DEPARTMENT SERVICE

2017 UC Davis Plant Science Symposium
Organizer

September 2016 – April 2017

Dept. of Plant Sciences Faculty Search Committee
Graduate Student Representative
September 2016 – December 2016

2016 UC Davis Plant Science Symposium
Volunteer
April 2016

PROFESSIONAL AFFILIATIONS

National Association of Plant Breeders
2016 – Present

PRESENTATIONS

Famula RA, Richards JH, Famula TR, and Neale DB. 2017. Association Genetics of Water-use Efficiency Traits in Walnut (*Juglans regia L*.) NAPB Annual Meeting. Davis, CA. (Oral Presentation).
Famula RA and Harada JJ. 2010. Understanding Transcriptional Regulation in Arabidopsis Seeds. UC Davis Annual Undergraduate Research Conference. Davis, CA (Oral Presentation).

PUBLICATIONS

Guerra FP, Suren H, Holliday J, Richards JH, Fiehn O, Famula RA, Stanton BJ, Shuren R, Sykes R, Davis MF and Neale DB. Exome resequencing and GWAS identified novel polymorphisms and genes associated with growth, ecophysiology, and chemical and metabolomics composition of wood or *Populus trichocarpa*. (In Prep).

Famula RA, Richards JH, Famula TR, and Neale DB. Association genetics of water-use efficiency traits in walnut (*Juglans regia L.*). (Submitted, *Tree Genetics and Genomes*).

Baker EAG, Wegrzyn JL, Sezen UU, Falk T, Maloney PE, Vogler DR, Delfino-Mix A, Jensen C, Mitton J, Wright J, Knaus B, Rai H, Cronn R, Gonzalez-Ibeas D, Vasquez-Gross HA, **Famula RA**, Liu J, Kueppers LM, Neale DB. Comparative transcriptomics among four white pine species. (Submitted, *G3: Gene, Genomes, Genetics*)

Martínez-García PJ, **Famula RA**, Leslie CA, Famula TR, and Neale DB. 2017. Application of generalized linear mixed models (GLMMs) to estimate heritability, repeatability and breeding values for agronomic and quality traits in walnut (*Juglans regia*). *Tree Genetics and Genomes*. 13(5), 109.

Martínez-García PJ, Crepeau MW, Puiu D, Gonzalez-Ibeas D, Whalen J, Stevens KA, Paul R, Butterfield TS, Britton MT, Reagan RL, Chakraborty S, Walwage SL, Vasquez-Gross HA, Cardeno C, **Famula RA**, Pratt K, Kuruganti S, Aradhya MK, Leslie CA, Dandekar AM, Salzberg SL, Wegrzyn JL, Langley CH and Neale DB. 2016. The walnut (*Juglans regia*) genome sequence reveals

diversity in genes coding for the biosynthesis of non-structural polyphenols. *The Plant Journal*. 87(5), 507-532.

Wegrzyn JL, Whalen J, Kinlaw CS, Harry DE, Puryear J, Loopstra CA, Gonzalez-Ibeas D, Vasquez-Gross H, **Famula RA** and Neale DB. 2016. Transcriptomic profile of leaf tissue from the leguminous tree, Millettia pinnata. *Tree Genetics and Genomes*. 12(3), 1-12.

Gonzalez-Ibeas D, Martínez-García PJ, **Famula RA**, Delfino-Mix A, Stevens KA, Loopstra CA, Langley CH, Neale DB and Wegrzyn JL. 2016. Assessing the gene content of the megagenome: sugar pine (*Pinus lambertiana*). *G3: Gene, Genomes, Genetics*. 6(12), 3787-3802

Guerra FP, Richards JH, Fiehn O, **Famula RA**, Stanton BJ, Shuren R, Sykes R, Davis MF and Neale DB. 2016. Analysis of the genetic variation in growth, ecophysiology, and chemical and metabolomics composition of wood of *Populus trichocarpa* provenances. *Tree Genetics and Genomes*. 12(1), 6.