**Briana L. Gross**

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**Professional Appointments**

2018- Associate Professor of Biology, University of Minnesota Duluth

2018- Plant and Microbial Biology Graduate Faculty, University of Minnesota

2012- Integrated Biosciences Graduate Faculty, University of Minnesota

2012-2018 Assistant Professor of Biology, University of Minnesota Duluth

2010-2012 Postdoctoral Research Scientist in Plant Genetics

 USDA-ARS National Center for Genetic Resources Preservation

 Fort Collins, CO

 Advisor: Gayle M. Volk, USDA-ARS Research Scientist

2007-2010 NIH Ruth L. Kirschstein Postdoctoral Fellow

 Washington University, St. Louis, MO

 Advisor: Prof. Kenneth M. Olsen

**Education**

2001-2007 Ph.D. in Evolutionary Biology, Minor in Genetics

 Indiana University, Bloomington, IN

 Advisor: Distinguished Prof. Loren H. Rieseberg

* 1. Bachelor of Science: Major in Biology, Minor in Chemistry, *summa cum laude*

 Willamette University, Salem, OR

 Advisor: Prof. Susan R. Kephart

## Publications

**Refereed Publications:**

Underlining indicates a graduate student co-author, \* indicates an undergraduate co-author.

1. **Briana L. Gross**, Marshall J. Wedger\*, Marlyn Martinez\*, Gayle M. Volk, and Cindy Hale. 2018. Identification of unknown apple cultivars demonstrates the impact of local breeding program on cultivar diversity. *Genetic Resources and Crop Evolution* 65:1317-1327.
2. Katharine J. Zlonis and **Briana L. Gross**. 2018. Genetic structure, diversity, and hybridization in populations of the rare arctic relict *Euphrasia hudsoniana* (Orobanchaceae) and its invasive congener *Euphrasia stricta*. *Conservation Genetics* 19: 43-55.
3. **Briana L. Gross**, Adam D. Henk, Remi Bonnart, and Gayle M. Volk. 2017. Changes in transcript expression patterns as a result of cryoprotectant treatment and liquid nitrogen exposure in *Arabidopsis* shoot tips. *Plant Cell Reports* 36: 459-470.
4. Rachel S. Meyer, Jae Young Choi, Michelle Sanches, Anne Plessis, Jonathan M. Flowers, Junrey Amas, Katherine Dorph, Annie Barretto, **Briana L. Gross**, Dorian Q. Fuller, Isaac Kofi Bimpong, Marie-Noelle Ndjiondjop, Khaled M. Hazzouri, Glenn B. Gregorio, and Michael D. Purugganan. 2016. Domestication history and geographical adaptation inferred from a SNP map of African rice. *Nature Genetics* 48: 1083-1088.
5. **Briana L. Gross,** Adam D. Henk, Christopher M. Richards, Gennaro Fazio, and Gayle M. Volk. 2014. Genetic diversity in *Malus* x *domestica* (Rosaceae) through time in response to domestication. *American Journal of Botany* 101: 1770-1779.
6. **Briana L. Gross** and Zhijun Zhao. 2014*.* Archeological and genetic insights into the origins of domesticated rice. *Proceedings of the National Academy of Sciences* USA 111: 6190-6197
7. **Briana L. Gross**, Gayle M. Volk, Christopher M. Richards, Patrick A. Reeves, Adam D. Henk, Philip L. Forsline, Amy Szewc-McFadden, Gennaro Fazio, and C. Thomas Chao. 2013. Diversity captured in the USDA-ARS National Plant Germplasm System apple core collection. *Journal of the American Society for Horticultural Science* 138: 375-381*.*
8. **Briana L. Gross**, Adam D. Henk, Philip L. Forsline, Christopher M. Richards, Gayle M. Volk. 2012. Identification of interspecific hybrids among domesticated apple and its wild relatives. *Tree Genetics & Genomes* 8: 1223-1235.
9. **Briana L. Gross**, Gayle M. Volk, Christopher M. Richards, Philip L. Forsline, Gennaro Fazio, and C. Thomas Chao. 2012. Identification of “duplicate” accessions within the USDA-ARS National Plant Germplasm System *Malus* collection. *Journal of the American Society for Horticultural Science* 137: 333-342.
10. Allison J. Miller and **Briana L. Gross**. 2011. From forest to field: Perennial fruit crop domestication. *American Journal of Botany* 98: 1389-1414.
11. **Briana L. Gross**, Faith T. Steffen\*, and Kenneth M. Olsen. 2010. The molecular basis of white pericarps in African domesticated rice: Novel mutations at the *Rc* gene. *Journal of Evolutionary Biology* 23: 2747-2753.
12. **Briana L. Gross** and Kenneth M. Olsen. 2010*.* Genetic perspectives on crop domestication. *Trends in Plant Science* 15: 529-537.

From Web of Science: “As of March/April 2017, this highly cited paper received enough citations to place it in the top 1% of the academic field of Plant & Animal Science based on a highly cited threshold for the field and publication year.”

1. **Briana L. Gross**, Michael Reagon, Shih-Chung Hsu, Ana L. Caicedo, Yulin Jia, and Kenneth M. Olsen. 2010. Seeing red: The origin of grain pigmentation in US weedy rice. *Molecular Ecology* 19: 3380-3393.
2. Carrie S. Thurber, Michael Reagon, **Briana L. Gross**, Kenneth M. Olsen, Yulin Jia, and Ana L. Caicedo. 2010*.* Molecular evolution of shattering loci in US weedy rice. *Molecular Ecology* 19: 3271-3284.
3. Michael Reagon, Carrie S. Thurber, **Briana L. Gross**, Yulin Jia, and Ana L. Caicedo. 2010. Genomic patterns of nucleotide diversity in divergent populations of U.S. weedy rice. BMC Evolutionary Biology 10:180.
4. **Briana L. Gross**, Karl J. Skare\*, and Kenneth M. Olsen. 2009. Novel *Phr1* mutations and the evolution of phenol reaction variation in US weedy rice (*Oryza sativa* L.). *New Phytologist* 184: 842-850.
5. **Briana L. Gross**, Kathryn G. Turner and Loren H. Rieseberg. 2007. Selective sweeps in the homoploid hybrid species *Helianthus deserticola*: Evolution in concert across populations and across origins. *Molecular Ecology* 16: 5246-5258.
6. Loren H. Rieseberg, Seung-Chul Kim, Rebecca A. Randell, Kenneth D. Whitney, **Briana L. Gross**, Christian Lexer and Keith Clay. 2007. Hybridization and the colonization of novel habitats by annual sunflowers. *Genetica* 129: 149-165.
7. Zhao Lai, **Briana L. Gross**, Yi Zou, Justen Andrews, and Loren H. Rieseberg. 2006. Microarray analysis reveals differential gene expression in hybrid sunflower species. *Molecular Ecology* 15: 1213-1227.
8. **Briana L. Gross** and Loren H. Rieseberg. 2005. The ecological genetics of homoploid hybrid speciation. *Journal of Heredity* 96: 241-252.
9. Fulco Ludwig, David M. Rosenthal, Jill A. Johnston, Nolan Kane, **Briana L. Gross**, Christian Lexer, Susan A. Dudley, Loren H. Rieseberg, and Lisa A. Donovan. 2005. Selection on leaf ecophysiological traits in a desert hybrid *Helianthus* species and early-generation hybrids. *Evolution* 58: 2682-2692.
10. **Briana L. Gross**, Nolan C. Kane, Christian Lexer, Fulco Ludwig, David M. Rosenthal, Lisa A. Donovan, and Loren H. Rieseberg. 2004. Reconstructing the origin of *Helianthus deserticola*: Survival and selection on the desert floor. *The American Naturalist* 164: 145-156.
11. **Briana L. Gross**, Andrea E. Schwarzbach, and Loren H. Rieseberg. 2003. Origin(s) of *Helianthus deserticola* (Asteraceae), a diploid hybrid species. *American Journal of Botany* 90: 1708-1719.

**Book Chapters and Books Edited:**

1. **Briana L. Gross** and Allison J. Miller. 2014. From field to table: Perspectives and potential for perennial fruit domestication. In: Batello C, Cox S, Wade L, Pogna N, Bozzini A, Choptiany J, editors. Perennial Crops for Food Security: Proceedings of the FAO Expert Workshop. Rome, Italy: FAO. p. 187-207.
2. **Briana L. Gross.** 2010*.* Faculty, staff, and student partnerships for sustainability. Pp. 178-182, *in* Teaching Environmental Literacy: Across Campus and Across the Curriculum (Heather L. Reynolds, Eduardo Brondizio, and Jennifer Meta Robinson, with Doug Karpa and **Briana L. Gross**, ed.). Indiana University Press, Bloomington.
3. **Briana L. Gross** and Kenneth M. Olsen. 2009. Evolutionary genomics of weedy rice. Pp. 83-98, *in* Weedy and Invasive Plant Genomics (C. Neal Stewart, Jr., ed.). Wiley-Blackwell, Ames.
4. Nolan C. Kane, **Briana L. Gross**, and Loren H. Rieseberg. 2006. Transgressive segregation (plant breeding). Pp. 331-34, *in* McGraw-Hill 2006 Yearbook of Science and Technology (Elizabeth Geller, ed.). McGraw-Hill, New York

**Invited Commentaries and Perspectives (Editor Reviewed):**

1. Allison J. Miller and **Briana L. Gross**. 2016. Report from the International Plant and Animal Genome meeting. *American Journal of Botany* 103: 982-985.
2. **Briana L. Gross,** Elizabeth A. Kellogg, and Allison J. Miller. 2014. Speaking of Food: Connecting basic and applied plant science. *American Journal of Botany* 101: 1597-1600.
3. **Briana L. Gross**. 2012*.* Rice domestication: Histories and mysteries. *Molecular Ecology* 21: 4412-4413.
4. **Briana L. Gross**. 2012. Genetic and phenotypic divergence of homoploid hybrid species from parental species. *Heredity* 108: 157-158.
5. **Briana L. Gross**. 2011. MADS-box out of the black box. *Molecular Ecology* 20: 25-26.
6. **Briana L. Gross** and Jared L. Strasburg. 2010. Cotton domestication: Dramatic changes in a single cell. *BMC Biology* 8: 137*.*
7. Kenneth M. Olsen and **Briana L. Gross**. 2008. Detecting multiple origins of domesticated crops. *Proceedings of the National Academy of Sciences* USA 105: 13701-13702.
8. Jared L. Strasburg and **Briana L. Gross**. 2008. Adapting to winter in wheat. *Molecular Ecology* 17: 716-718
9. Nolan C. Kane, **Briana L. Gross**, and Loren H. Rieseberg. 2002. Book Review: Yanking Darwin’s Sword. *Plant Systematics and Evolution* 234: 237-239.

## Grants

**Research Grants:**

1. PI, “Coastal *Primula* conservation genomics.” MN DNR Minnesota’s Lake Superior Coastal Program Short Term Action Request (STAR). PI with Katharine Zlonis (equal effort). Total: **$6.5K**.
2. PI, “Why do coastal seeds fail?” 2017-2018. MN DNR Minnesota’s Lake Superior Coastal Program. PI with Dr. Julie R. Etterson (equal effort). Total: $198.8K, Share to BLG and JRE, including indirect: **$98.8K**.
3. PI, “Minnesota Lingonberry: Genetic Markers for Clonal and Genetic Structure.” UMN Grant in Aid of Research. 2015-2017. Total: **$53K**.
4. Senior Personnel, “Genetic and physiological mechanisms of local climatic adaptation in a widespread perennial plant species.” 2015-2017. NSF Integrative Organismal Systems. PI: Dr. Kenneth M. Olson. Total: $1.1M, Share to BLG, including indirect: **$70.7K** (through a sub-award to UMD).
5. PI, “Contemporary Evolution in Wild and Domesticated Sunflower: Gene Expression.” UMN Genomics Center. 2016-2017. Co-PI: Dr. Julie R. Etterson. Total: **$1.2K**.
6. Co-PI, “Seed Collection and Gene Expression in Wild and Domesticated Sunflower.” UMD Chancellor’s Small Grant. 2016-2017. PI: Dr. Julie R. Etterson. Total: **$2K**.
7. Senior Personnel, “Developing profitable apple production along Lake Superior’s north shore of MN.” 2016-2017. MN Department of Agriculture Sustainable Agriculture Demonstration Grant. PI: Dr. Cindy Hale. Total: $20K, Share to BLG: **$2K** (through an external sales contract).
8. Co-PI, “Coastal arctic plants and climate change.” 2016. MN DNR Minnesota’s Lake Superior Coastal Program Short Term Action Request (STAR). PI with Dr. Julie Etterson and Katharine Zlonis (equal effort). Total: **$5K**.
9. PI, “Genetics of threatened arctic plants.” 2015. MN DNR Minnesota’s Lake Superior Coastal Program Short Term Action Request (STAR). PI with Katharine Zlonis (equal effort). Total: **$7.5K**.
10. Co-PI, “Enhancing the capacity of shared Department of Biology equipment through machine calibration and accessory acquisition.” UMD Biology Department. 2013. PI: Dr. Julie R. Etterson. Total: **$3.7K**.
11. PI, “Rediscovering Duluth’s Heritage Apple Resources.” UMD Strategic Plan Community Partnership Grant. 2012-2013. PI with Dr. Cindy Hale (equal effort). Total: **$7K**.
12. PI. “Evolutionary genomics of hybrid speciation and divergence.” National Science Foundation Doctoral Dissertation Improvement Grant. 2005. Total: **$11.4K**.

## Teaching Grants:

1. PI, “High throughput sequencing technology for biology lectures and labs.” UMD Collegiate Fee Funds. 2018. Total: **$18.5K**
2. Co-PI, “Active Learning Proposal: Enhancement of Active Learning in Biol 2201: Genetics and Backward Course Design of Biol 2110: Fundamentals in Cellular and Molecular Biology.” UMD SCSE Dean’s Office. 2016. PI: Dr. Paul Bates. Total: **$3.9K**.
3. Co-PI, “Purchase of new Gilson Pipetman pipettes for Cell Biology and Genetics laboratories” UMD Tech Funds. 2013. PI: Dr. Shannon Stevenson. Total: **$7K**.

## Fellowships:

1. NSF *Rice: Research to Production* short course at the International Rice Research Institute, Philippines. 2009. 3 weeks of full funding.
2. NIH Ruth L. Kirschstein Individual Postdoctoral Fellowship. 2007-2010. Total: **$141K**
3. IU Floyd/Ogg Final Year Fellowship. Indiana University Department of Biology. 2006. Total: **$9K**
4. NSF IGERT Training Grant Fellowship in Evolution and Development at Indiana University. 2 years between 2001 and 2007. Total: **$63K**.
5. NSF Graduate Research Fellowship at Indiana University. 3 years between 2001 and 2007. Total: **$110K**.

**Presentations**

**Invited Seminars at Conferences and Universities (Exclusive of Interviews):**

1. “Bringing apples out of the wild: Genomic consequences of domestication.” Plant Science Symposium, University of Minnesota Twin Cities, St. Paul, MN, 2017.
2. “Bringing apples out of the wild: Genomic consequences of domestication.” Chemistry Department, University of Minnesota Duluth, 2017.
3. “Plant evolutionary genetics.” SCSE Faculty Colloquium, University of Minnesota Duluth, 2017.
4. “Patterns of evolution in domesticated apple.” Plant Breeding and Genetics Section, Cornell University, Ithaca, NY, 2016.
5. “Bringing apples out of the wild: Genomic consequences of domestication.” Joint Seminar for the Biology and Plant Science Departments, North Dakota State University, Fargo, ND, 2016.
6. “Genomic insights into the origins of domesticated rice.” Canadian Society for Ecology and Evolution Annual Meeting, Saskatoon, SK, Canada, 2015.
7. “Evolutionary genetics of weedy and domesticated plants.” Ecology, Evolution and Behavior Department, University of Minnesota Twin Cities, St. Paul, MN, 2013.
8. “From field to table: perspectives and potential for fruit domestication.” Food and Agriculture Organization of the United Nations Expert Workshop on Perennial Crops for Food Security, Rome, Italy, 2013. *Co-presented with Allison J. Miller.*
9. “Apple domestication genetics: Genetic diversity and hybridization in the crop and its wild relatives.” Botany 2013 “Speaking of Food” Symposium, New Orleans, LA, 2013.
10. “Domestication of tree crops.” 58th Annual Systematics Symposium, Missouri Botanical Garden, St. Louis, MO, 2011. *Co-presented with Allison J. Miller.*
11. “Origin and evolution of weedy and domesticated rice.” Department of Biology, Colorado State University, Ft. Collins, CO, 2011.
12. “The origin and evolution of the homoploid hybrid species *Helianthus deserticola.*” Biology Department, Luther College, Decorah, IA, 2008.
13. “The origin of *Helianthus deserticola*: Hybridization and speciation.” Evolution, Ecology, & Population Biology Seminar, Washington University in St. Louis, MO, 2007.
14. “The origin of *Helianthus deserticola*: Hybridization and speciation.” Young Scientist Symposium: Microevolutionary Processes Underlying Biodiversity, University of Michigan, Ann Arbor, MI, 2006.
15. “Ecological genetics of hybrid speciation in sunflowers, particularly with respect to abiotic stress using *Helianthus deserticola* as a model.” Sunflower Research Forum, National Sunflower Association, Fargo, ND, 2005.
16. “Selection and speciation: exploring the origins of wild sunflowers.” International Symposium on Asian Plant Diversity and Systematics, Sakura, Japan, 2004.

**Contributed Talks and Posters:**

1. Poster: “A survey of the genetic structure of *Vaccinium vitis-idaea* in northern Minnesota.” Midwest Population Genetics Conference, East Lansing, MI, 2017. *Presented by Jolene Prochazka*.
2. Talk: “Did two rice species go through parallel domestication via changes to the same genes?” Botany, Fort Worth, TX, 2017. *Co-presented with Rachel S. Meyer.*
3. Talk: “Bringing apples out of the wild: genomic consequences of domestication.” International Plant and Animal Genome Conference XXV, San Diego, CA, 2017.
4. Talk: “Exploring apple domestication genetics.” Botany, Savannah, GA, 2016.
5. Poster: “Identification of unknown apple (*Malus* x *domestica*) varieties from the North Shore.” Annual Biomedical Research Conference for Minority Students, Tampa, FL, 2016. *Presented by Marlyn Martinez.*
6. Poster: “Evaluating the extent of parallel selection in African and Asian rice.” 12th International Symposium on Rice Functional Genomics, Tucson, AZ, 2014. *Co-presented with Rachel S. Meyer.*
7. Poster: “Identification of unknown apple (*Malus* x *domestica*) varieties in the Duluth region using DNA simple sequence repeats” Botany, Boise, ID, 2014. *Presented by Marshall J. Wedger.*
8. Talk: “Domestication genetics in African rice (*Oryza glaberrima*)” Botany, Boise, ID, 2014.
9. Poster: “Interspecific hybridization among domesticated apple and its wild relatives.” International Plant and Animal Genome Conference XX, San Diego, CA, 2012.
10. Poster: “Genetic variation in historical and modern apple cultivars compared to wild relatives.” International Plant and Animal Genome Conference XIX, San Diego, CA, 2011.
11. Talk: “Origin and evolution of grain color in US weedy rice.” Evolution, University of Idaho, Moscow, ID, 2009.
12. Poster: “Evolution of a grain color gene and the origins of weedy rice.” Ecological Genomics Symposium, Kansas State University, Kansas City, MO.
13. \*Selected Talk: “Selective sweeps in the homoploid hybrid species *Helianthus deserticola*: Evolution in concert across populations and across independent origins.” Society for Molecular Biology and Evolution Annual Meeting, Dalhousie University, Halifax, NS, Canada, 2007.
14. Poster: “Genome scan for signatures of selection in *Helianthus deserticola*.” Genetics of Speciation Symposium, University of British Columbia, Vancouver, BC, Canada, 2006.
15. \*Selected Poster: “Ecological selection and speciation in sunflowers.” New Phytologist Symposium: New directions in plant ecological development, London, England, 2006.
16. Poster: “The origin of *Helianthus deserticola*: survival and selection in a desert habitat.” New Phytologist Symposium: Plant speciation, Antigonish, NS, Canada, 2003.
17. Talk: “Potential multiple origins for *Helianthus deserticola*, a diploid hybrid species.” Botany 2001, Albuquerque, NM, 2001. (Winner, Menzel Award for best student paper in genetics)

**Honors and Awards**

2018 UMD Biology Department Inspirational Teacher of the Life Sciences (student-nominated)

2015 UMD Swenson College of Science and Engineering Young Teacher Award

2001 Menzel Award for best student paper in genetics, Botanical Society of America

2001 Young Botanist Award - Botanical Society of America

**Recent Professional Development**

* Introductory Population Genomics: From Data to Inference through Physalia Courses at the Botanical Garden and Botanical Museum, Berlin, Germany – 1 week, May 2017
* Bioinformatics Crash Course at the University of Maryland – 1 week, June 2015
* Introduction to Next Generation Sequencing Workshop at the Botany 2014 Meetings, Boise, ID – 1 day, July 2014

**Teaching And Mentoring**

**Teaching Experience**

University of Minnesota Duluth, Biology Department:

* Genetics Lecture (BIOL 2201)
	+ 3 credit lecture, enrollment 70-150, taught 5 times
	+ Average teaching evaluations 5.1/6.0
* Genetics Lab (BIOL 2202)
	+ 2 credit writing intensive lab, enrollment 12-20 per section (teach 1 section, supervise 2 sections), taught 5 times
	+ Average teaching evaluations 5.2/6.0
* Communication in Biology (BIOL 3987)
	+ 2 credit upper division lecture, enrollment 6, taught 1 time
	+ Average teaching evaluations 5.4/6.0
* Evolution in Agriculture (BIOL 4850)
	+ 3 credit upper division lecture, enrollment 5, taught 1 time
	+ Average teaching evaluations 5.1/6.0
* Seminar – Plant Domestication (BIOL 8993)
	+ 2 credit upper division seminar, enrollment 5, taught 1 time
	+ Average teaching evaluations 5.9/6.0
* Research Club (IBS 8030)
	+ 1 credit graduate seminar, enrollment 12-18, taught 3 times
	+ Average teaching evaluations 5.4/6.0

Indiana University Bloomington, Biology Department

* Ethnobotany (B368)
	+ 3 credit upper division lecture, enrollment 15, taught 1 time
	+ Average teaching evaluations 3.0/4.0
* Assistant Instructor, The Biology of Food (L104)

**Mentoring Experience**

* Number of PhD students advised: 1 in progress
* Number of MS students advised: 2 in progress
* Number of thesis committees: 2 complete, 4 in progress
* Number of undergraduate researchers employed or advised on independent projects at UMD: 26
* Number of undergraduate academic advisees per semester, on average: 31.5

**Teaching and Mentoring Development**

* Inclusive Pedagogy Workshop at UMD, 1 & ½ days, spring 2018
* Active Learning Workshops at UMD: Improvisational Teaching Workshop, ½ day, spring 2017
* Botany Conference Workshop: Integrating RNA-Seq into Undergraduate Teaching, Botany 2016 Conference, Savannah, GA, ½ day, summer 2016
* Active Learning Cohort at UMD: Bi-weekly group meetings for book discussion and peer support of active learning in science and engineering – 2016 and 2017
* Active Learning Workshops at UMD: Active Learning 101 and Designing Your Course for Active Learning, 2 days, fall 2015
* Mentor Development Workshop at UMD: NIH mentor training, 1 day, summer 2015
* Early Career Workshop Series in Teaching and Learning, UMD Instructional Development Service: seven 2-hour sessions, spring 2013
* Entering Mentoring Seminar (Bio 5992), Washington University in St. Louis, weekly meetings, spring 2008

# Service

**Professional Service (since 2002)**

* **International Plant and Animal Genome Conference (PAG) Workshop**: Co-coordinator of the “Domestication Genomics” workshop, with Dr. Allison J. Miller, 2012-present.
* **Editorial Work:**
	+ **Guest Editor,** *American Journal of Botany* special issue “Speaking of Food: Connecting Basic and Applied Science”, 2014
	+ **Editorial Board,** Axios reviews, 2013-2016
	+ **Subject Editor**, Technical reviews and technical articles, *Molecular Ecology Resources*, 2007-2009
* **Manuscript Reviewer:** *American Journal of Botany, The American Naturalist, Annals of Botany, Bioscience, BMC Plant Biology, BMC Evolutionary Biology, Botany, Botanical Journal of the Linnean Society, Conservation Genetics, Current Biology, Current Opinion in Plant Biology, Current Zoology, Evolution, Evolutionary Applications, Evolutionary Ecology Research, G3: Genes, Genomes, Genetics, Genome Biology and Evolution, Heredity, Journal of Biogeography, Journal of Ecology, Journal of Heredity, Molecular Biology and Evolution, Molecular Ecology\*, Molecular Ecology Resources, Nature Biotechnology, Nature Plants, Nature Scientific Reports, New Phytologist, Proceedings of the Royal Society B, Plant Cell, The Plant Journal, Plant Physiology, Plant Systematics and Evolution, PLoS ONE, PNAS, Proceedings of the Royal Society B, Rice, ScienceAsia, Scientia Horticulturae, The Plant Cell, Tree Genetics & Genomes. \**Named a best reviewer for *Molecular Ecology* in 2012 (<http://www.molecularecologist.com/2013/02/mol-ecol-best-reviewers/>).
* **Grant Reviewer or Panelist:** NSF DEB Evolutionary Genetics, Netherlands Organization for Scientific Research, Israel Science Foundation, University of Wyoming Agricultural Experiment Station
* **Professional Society Committees and Service:**
	+ Botanical Society of America, Committee on Committees, 2018-2020 (three year term)
	+ Botanical Society of America, Genetics Section Judge for oral presentations at the Botany meetings in 2014, 2016, and 2017. Awardees receive the Menzel Prize for best paper in genetics.
	+ RosExec (US Rosaceae Genomics, Genetics and Breeding Executive Committee), US representative, 2014-2016

**Community Service and Outreach (since 2012)**

* U.S. Botanic Garden and Agriculture Education: Visioning for the Future Meeting, 2014 – contributing to the development of “Agriculture and the Future of Food: The Role of Botanic Gardens” outreach document (<https://www.usbg.gov/agriculture-and-future-food-role-botanic-gardens>).
* **Community Presentations and Demonstrations**
	+ Ashland Science on Tap – “Apple genetics through space and time”, May 21st, 2016
	+ Lake Aire Garden Club – Presentation on apple domestication and orchard tour, Sept. 14th, 2016
	+ Minnesota Department of Agriculture Field Day hosted by Dr. Cindy Hale – Presentation on apple genetic identification, Aug. 14th, 2016
	+ “Science on Tap” SCSE outreach event at the Bent Paddle Brewery – Demonstration of the origin of domesticated barley and its use in brewing, Nov. 12th, 2016
	+ Continuous community interactions at Farmer Markets and through UMD to solicit samples for apple genetic identification project, 2013-2014 (resulting manuscript is currently in review)
* **Poster Judge**
	+ NE MN Regional Science Fair, Minnesota High Schools, 2017
	+ Summer Undergraduate Research Program in Chemistry, UMD, 2013 and 2014

**University Service (since 2012)**

* **System**
	+ Integrated Biosciences Graduate Program Admissions Committee, 2013-2016
* **UMD**
	+ Strategic Planning and Budget Committee, 2018-2021
	+ Women’s, Gender, and Sexuality Studies Advisory Board, 2013-2016
* **Swenson College of Science and Engineering**
	+ Women in STEM/Multicultural and Diversity Committee, 2014-2017
	+ UROP proposal reviewer, fall 2013 and 2016
* **Biology Department**
	+ Union Representative, 2018-present
	+ Greenhouse Committee Chair, 2013-2018
	+ Greenhouse Manager Search Committee, 2015-2016
	+ Plant Biologist Dual Search Committee, 2014-2015
	+ Temporary Instructor Search Committee, 2014-2015
	+ BURST Committee, 2013-2015 academic year and summer
	+ Writing Committee, 2013-2014
	+ Seminar Committee Chair, Fall 2013