

**KEVIN A. WEITEMIER**

Oregon State University  
Center for Genome Research & Biocomputing  
Ag & Life Sciences 3021  
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**EDUCATION**

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- 2016 Oregon State University, Corvallis, Oregon. Ph.D., Botany & Plant Pathology  
Dissertation: *Genomic investigations of diversity within the milkweed genus Asclepias, at multiple scales.*
- 2015 Oregon State University, Corvallis, Oregon. Graduate Certificate in College and University Teaching
- 2010 Portland State University, Portland, Oregon. M.S., Biology  
Thesis: *Phylogeographic patterns and intervarietal relationships within Lupinus lepidus: Morphological differences, genetic similarities.*
- 2005 Colorado College, Colorado Springs, Colorado. B.A., Biology  
Magna Cum Laude  
Honors Thesis: *Phylogenetic relationships within Primula section Parryi: an AFLP analysis.*

**POSITIONS**

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**CURRENT POSITION**

- 2016- Bioinformatics E-trainer, Faculty Research Assistant; Center for Genome Research and Biocomputing, Oregon State University

**RESEARCH ASSOCIATED**

- 2010-2016 Graduate Research and Herbarium Assistant, Oregon State University Herbarium  
2006-2007 Research Technician, Portland State University, Lab of Dr. Mark Fishbein

**TEACHING ASSOCIATED**

- 2016, 2015 Graduate Teaching Assistant: Plant Systematics. Dept. of Botany & Plant Pathology/Oregon State University  
2007-2010 Graduate Teaching Assistant, Dept. of Biology/Portland State University  
2005-2006 Paraprofessional (similar to a Teaching Assistant), Dept. of Biology/Colorado College

## PUBLICATIONS

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### REFEREED JOURNAL ARTICLES

- Schmickl R, A Liston, V Zeisek, K Oberlander, **K Weitemier**, SCK Straub, RC Cronn, LL Dreyer, J Suda. 2016. Phylogenetic marker development for target enrichment from transcriptome and genome skim data: the pipeline and its application in southern African *Oxalis* (Oxalidaceae). *Molecular Ecology Resources*. 16(5):1124-1135
- Weitemier K**, SCK Straub, M Fishbein, A Liston. 2015. Intragenomic polymorphisms among high-copy loci: A genus-wide study of nuclear ribosomal DNA in *Asclepias* (Apocynaceae). *PeerJ* 3:e718.
- Weitemier K**, SCK Straub, RC Cronn, M Fishbein, R Schmickl, A McDonnell, A Liston. 2014. Hyb-Seq: Combining target enrichment and genome skimming for plant phylogenomics. *Applications in Plant Science* 2(9):1400042.
- Straub SCK, M Parks, **K Weitemier**, M Fishbein, RC Cronn, A Liston. 2012. Navigating the tip of the genomic iceberg: Next-generation sequencing for plant systematics. *American Journal of Botany* 99(2):349-364.
- Straub SCK, M Fishbein, T Livshultz, Z Foster, M Parks, **K Weitemier**, RC Cronn, A Liston. 2011 Building a model: Developing genomic resources for common milkweed (*Asclepias syriaca*) with low coverage genome sequencing. *BMC Genomics* 12:211.
- Kelso S, P Beardsley, **K Weitemier**. 2009 Phylogeny and biogeography of *Primula* sect. *Parryi* (Primulaceae). *International Journal of Plant Sciences* 170(1):93-106.

### MANUSCRIPTS IN SUBMISSION

- Livshultz T, E Kaltenecker, SCK Straub, **K Weitemier**, E Hirsch, K Koval, L Mema, A Liston. Evolution of pyrrolizidine alkaloid biosynthesis in Apocynaceae: evidence for the defense de-escalation hypothesis. *New Phytologist*.

### OTHER PUBLICATIONS

- Weitemier, K**. 2011. First Steps of Diversification? Relationships Among the Many Varieties of Pacific Lupine. *Douglasia* 35(3):1-3.

## PRESENTATIONS

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### INVITED PRESENTATION

- Weitemier K**. Targeting genomic regions of interest in non-model organisms. Microarray – Planning a successful target enrichment project [Teaching workshop]. Plant & Animal Genome XXIV. San Diego, CA. 2016.

### PUBLIC PRESENTATION

- Keynote Address: Sleuthing species splits and spreads. Native Plant Society of Oregon Annual Meeting. Roseburg, OR. 2017.

**WORKSHOPS**

2012-2016 Co-organized and instructed “An Introduction to Next Generation Sequencing” at the annual Botany meeting (2012-Columbus, OH; 2013-New Orleans, LA; 2014-Boise, ID; 2015-Edmonton, AB; 2016-Savannah, GA)

**PAPERS<sup>§</sup> AND POSTERS<sup>+</sup> (\*PRESENTING AUTHORS)**

- §**Weitemier K\***, A Liston. Genome-enabled phylogeography in the Great Basin milkweed, *Asclepias cryptoceras* (Apocynaceae). Botany 2016. Savannah, GA. 2016.
- §**Weitemier K\***, SCK Straub, M Fishbein, A Liston. Intragenomic polymorphisms among high-copy loci: a genus-wide study of nuclear ribosomal DNA in *Asclepias* (Apocynaceae). Botany 2015. Edmonton, AB. 2015.
- §Liston A, **K Weitemier**, B Kronmiller, M Zarrei, T Dickinson\*. Using Hyb-Seq data to test phylogenetic hypotheses in hawthorns (*Crataegus*, Rosaceae). Botany 2015, Edmonton, AB. 2015.
- +Jennings T\*, R Cronn, B Burgess, S Jogdeo, A Liston, **K Weitemier**, B Kinder. The Oxford Nanopore Minion: A tool for combating illegal logging of white oaks? Plant & Animal Genome XXIII. San Diego, CA. 2015.
- +Schmickl R\*, A Liston, K Oberlander, **K Weitemier**, V Zeisek, S Straub, R Cronn, L Dreyer, J Suda. The combination of target enrichment and genome skimming (Hyb-Seq) for phylogenetic reconstruction of South African *Oxalis* (Oxalidaceae). Plant & Animal Genome XXIII. San Diego, CA. 2015.
- +**Weitemier K\***, S Straub, M Fishbein, A Liston. Intragenomic polymorphisms among high-copy loci: A genus-wide study of nuclear ribosomal DNA in *Asclepias*. Botany 2014, Boise, ID. 2014.
- §**Weitemier K\***, S Straub, M Fishbein, R Cronn, A Liston. Genome-enabled phylogeography in *Asclepias cryptoceras*. Botany 2013, New Orleans, LA. 2013.
- +**Weitemier K\***, S Straub, M Fishbein, R Cronn, A Liston. Genome-enabled phylogeography in *Asclepias cryptoceras*. American Genetic Association Symposium 2013, Ithaca, NY. 2013.
- §**Weitemier K\***, S Straub, M Parks, R Cronn, M Fishbein, A Liston. Challenges and utility of heterozygous genome assembly: *Asclepias syriaca*. Botany 2012, Columbus, OH. 2012.
- +**Weitemier K\***, S Straub, M Parks, R Cronn, M Fishbein, A Liston. Intra-genomic rDNA sequence diversity across the milkweed genus, *Asclepias* (Apocynaceae). Evolution 2011, Norman, OK. 2011.
- +**Weitemier K\***, S Straub, M Parks, R Cronn, M Fishbein, A Liston. Intra-genomic rDNA sequence diversity among 84 milkweeds (*Asclepias*, Apocynaceae). Plant & Animal Genome XIX. San Diego, CA. 2011.
- §**Weitemier K\***. Phylogenetic and phylogeographic analysis of *Lupinus lepidus*. Evolution 2010. Portland, OR. 2010.
- +**Weitemier K\***. Phylogenetic patterns and intervarietal relationships within *Lupinus lepidus*. EVO-WIBO. Port Townsend, WA. 2010.
- §**Weitemier K\***. Phylogenetic relationships among varieties of *Lupinus lepidus* (Fabaceae). Botany 2009. Snowbird, UT. 2009.

- +**Weitemier K\***. Focusing on blurry lines: A coalescent approach to a perennial lupine species complex. *Evolution* 2009. University of Idaho, Moscow, ID. 2009.
- +**Weitemier K\***. Phylogenetic analysis of the *Lupinus lepidus* species complex from noncoding cpDNA sequence data. *Botany* 2008. University of British Columbia, Vancouver, BC. 2008.
- +Kelso S, P Beardsley, **K Weitemier\***. Phylogenetic perspectives on speciation and biogeography of *Primula* Section *Parryi*, endemic to western North America. *Botany* 2008. Vancouver, BC. 2008.
- +Kelso S\*, **K Weitemier\***, M Bilodeau, P Beardsley. Phylogeny of *Primula* sect. *Parryi* in the Intermountain and Rocky Mountain West: Perspectives from ITS, ETS, cpDNA, and AFLP sequences. *Botany* 2006. Chico, CA. 2006.
- §**Weitemier K\***. Phylogenetic Relationships Within *Primula* section *Parryi*: an AFLP Analysis. Colorado Springs Undergraduate Research Forum. United States Air Force Academy, Colorado Springs, CO. 2005.

### AWARDED GRANTS

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2017	Hybrid Course Development, OSU Center for Teaching & Learning – \$1250
2015, 2014	Portland Garden Club - \$1000
2014	Gottlieb Award for Plant Evolutionary Biology, Oregon State University – \$5000
2014	Botanical Society of America, Genetics Section - \$500
2014	Botanical Society of America - \$500
2013	Templeton Award for Plant Systematics, Oregon State University – \$1500
2012, 2011	Moldenke Fund for Plant Systematics, Oregon State University – \$1500
2009	American Society of Plant Taxonomists – \$600
2008	Society of Systematic Biologists – \$1500
2008	Washington Native Plant Society – \$1000
2008	Forbes-Lea Award, Portland State University – \$800
2008	Native Plant Society of Oregon – \$750

### AWARDS & HONORS

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2013	Oregon Lottery Graduate Scholarship
2009, 2008	Honorable Mention: National Science Foundation, Graduate Research Fellowship Program

### PROFESSIONAL & UNIVERSITY SERVICE

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2013-2014	Student Promotion & Tenure Committee, Oregon State Botany & Plant Pathology
2013	Graduate Studies Committee, Oregon State Botany & Plant Pathology
2009	Faculty Liaison: PSU Biology Association of Graduate Students

## **COMMUNITY OUTREACH & LEADERSHIP**

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- 2014-2016 Board Member-at-Large: Native Plant Society of Oregon
- 2009-2016 Online Science Mentor: PlantingScience.org
- 2015 OSU Ag Days: Botany activity for “at-risk” high school students.
- 2014 Invited guest, Inspiration Dissemination: Radio program discussing graduate student research and paths to graduate school.
- 2012-2014 President: Native Plant Society of Oregon, Corvallis Chapter
- 2012 Youth outreach: Winter Wonderings, teaching elementary students evolution
- 2010-2012 Science fair judge: Portland, OR, Albany, OR.
- 2010-2011 Youth outreach: Discovery Days, Oregon State University

## **PROFESSIONAL AFFILIATIONS**

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American Genetic Association

American Society of Plant Taxonomists

Botanical Society of America

Society of Systematic Biologists