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Curriculum vitae September 2024

Research Plant Physiologist
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PROFESSIONAL APPOINTMENTS

1. Research Plant Physiologist, USDA-ARS, Crop Improvement and Protection Research Unit, Salinas, CA. 2021- present
2. Plant Research Geneticist (post-doc), USDA-ARS, Forage Seed and Cereal Research Unit, Corvallis, OR. Hop Breeding and Genetics Program. 2018 – 2021
3. Plant Research Geneticist (post-doc), USDA-ARS, Crop Improvement and Protection Research Unit, Salinas CA. 2015 – 2018

EDUCATION

1. Ph.D. Plant Biology, University of New Hampshire. Durham, NH. 2014.
2. M.Sc. Biology, University of Massachusetts Boston. Boston, MA. 2009.
3. B.A. Biological Sciences, Smith College, Northampton, MA. 2005.

RELEVANT PUBLICATIONS

1. Richardson, K.L., S. Nayak, D.K. Hasegawa, **R.L. Eriksen**. 2024. Evaluation of lettuce germplasm for resistance to impatiens necrotic spot virus. *Euphytica*.220:33.
2. **Eriksen, R.L.**, M.S. Wiseman, A. Alcazar Magana, N. Dhar, R.L. Reed, J.F. Stevens, D.H. Gent, J.A. Henning. 2023. Gene Expression Clusters Suggest Potential Mechanisms of Resistance to Powdery Mildew in Hop (*Humulus lupulus* L.). *PhytoFrontiers*.
3. **Eriksen, R. L.** 2022. Celery. In *Vegetable Cultivar Descriptions for North America List 28 2022* ed. B. Mou, American Society of Horticultural Sciences, p. 976–977
4. Kumar, P., **R.L. Eriksen**, I. Simko, B. Mou. 2022. Insights into nitrogen metabolism in the wild and cultivated lettuce as revealed by transcriptome and weighted gene co-expression network analysis. *Scientific Reports* 12(1):9852-9862
5. **Eriksen, R.L.**, L. Padgitt-Cobb, D.A. Hendrix, J.A. Henning. 2021. Gene expression of agronomically important secondary metabolites in cv. ‘USDA Cascade’ hop (*Humulus lupulus* L.) cones during critical developmental stages. *Journal of the American Society of Brewing Chemists*. 1-14
6. Mamo, B.E., **R.L. Eriksen**, N.D. Adhikari, B. Mou, R.J. Hayes, I. Simko, K. V. Subbarao. 2021. The epidemiology of a new phase of lettuce drop (*Sclerotinia* spp.): symptomatology and effect on host physiology. *PhytoFrontiers*. 1(3):182-204
7. **Eriksen, R.L.**, L. Padgitt-Cobb, M.S. Townsend, J.A. Henning. 2021. Gene expression for secondary metabolite biosynthesis in hop (*Humulus lupulus* L.) leaf lupulin glands exposed to heat and low-water stress. *Scientific Reports*. 11(1):5138

8. Kumar, P., **R.L. Eriksen**, I. Simko, B. Mou. 2021. Molecular Mapping of Water-Stress Responsive Genomic Loci in Lettuce (*Lactuca* spp.) Using Kinetics Chlorophyll Fluorescence, Hyperspectral Imaging and Machine Learning. *Frontiers in Genetics* 12
9. Adhikari, N.A., **R.L. Eriksen**, A. Shi, B. Mou. 2020. Proteomics Analysis Indicates Greater Abundance of Proteins Involved in Major Metabolic Pathways in *Lactuca sativa* cv. Salinas than *Lactuca serriola* Accession US96UC23. *Proteomics* 20(19-20):1900420
10. **Eriksen, R.L.**, N. Adhikari, B. Mou. 2020. Comparative Photosynthesis Physiology of Cultivated Lettuce (*Lactuca sativa* L.) and Wild Lettuce (*Lactuca serriola* L.) Under Control and Low-Water Stress. *Crop Science* 60(5):2511-2526
11. **Eriksen, R.L.**, L. Rutto, J.E. Dombrowski, J.A. Henning. 2020. Photosynthetic Activity of Hop (*Humulus lupulus* L.) Cultivars under Different Temperature Treatments. *HortScience*.55(4):403-409
12. **Eriksen, R.L.**, A.S. Klein. 2018. Organism-environment interactions and differential gene expression patterns from RNA-seq among open-coastal and estuarine populations of *Porphyra umbilicalis* (Kützinger) Rhodophyta in the Northwest Atlantic. *BMC Fisheries and Aquatic Sciences* 21(1):28
13. Cao, Y., L.A. Green, **R.L. Eriksen**, A.S. Klein. 2018. A pilot study of genetic structure of *Porphyra umbilicalis* Kützinger in the Gulf of Maine using SNP markers from RNA-seq. *Journal of Applied Phycology*: 1-11.
14. **Eriksen, R.L.**, C. Knepper, M. Cahn, B. Mou. 2016. Screening of Lettuce Germplasm for Agronomic Traits under Low Water Conditions. *HortScience* 51(6):669-679
15. **Eriksen, R.L.**, L.A. Green, A.S. Klein. 2016. Genetic variation within and among asexual populations of *Porphyra umbilicalis* Kützinger (Bangiales, Rhodophyta) in the Gulf of Maine, USA. *Botanica Marina* 59(1):1-12
16. **Eriksen, R. L.**, J. L. Hierro, Ö. Eren, L. Khetsuriani, K. Andonian, A. Diaconu, K. Török, P. I. Becerra, D. Montesinos, and R. Kesseli. 2014. Genetic diversity, population structure, and historical relationships among native and non-native populations of the invasive weed *Centaurea solstitialis* (Asteraceae). *PLoS ONE* 9(12): e114786. doi:10.1371/journal.pone.0114786

SELECT COMMUNITY INVOLVEMENT AND OUTREACH

1. Member Pacific West Area Workforce Diversity Committee Member, 2016 – 2018, 2021- present
2. Career Fair, Expanding Your Horizons for Girls, Monterey Lyceum, November 2023
3. Science Night, Periwinkle School, Albany, OR, 2020
4. Fascination with Plants Day, Corvallis, OR Farmer's Market, 2019
5. Career Fair, Expanding Your Horizons for Girls, Monterey Lyceum, November 2017
6. Career Fair, Expanding Your Horizons for Girls, Monterey Lyceum, November 2016
7. Volunteer, Los Padres Elementary School Science Program, 2016-2017
8. Science fair advisor to a student in Clovis, CA, 2015
9. MIT Sea Grant Rapid Assessment Survey participant, 2010
10. Volunteer Naturalist, Appalachian Mountain Club, 2009-2010
11. Plant Conservation Volunteer, New England Wildflower Society, 2005-2010