

## **Eric J Bishop von Wettberg**

Department of Plant and Soil Sciences, University of Vermont, Burlington, Vermont, USA

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### **A. Professional Preparation**

Swarthmore College	Biology	B.A. 1999
Copenhagen University	Agro-Ecology	Post-Bach 1999-2000
Brown University	Ecology	PhD 2007
University of California, Davis	Ecological Genomics	Postdoc 2007-2009

### **B. Appointments**

2025 -	Chair, Department of Animal and Veterinary Sciences, University of Vermont
2024 -	Director, Vermont Agricultural Experiment Station, University of Vermont
2023 -	Professor, University of Vermont
2020 – 2022	Program Director, Graduate Program in Food Systems, University of Vermont
2019 – 2023	Associate Professor, University of Vermont
2017 – 2019	Assistant Professor, University of Vermont
2017 – 2018	Visiting Fulbright Specialist Scholar, Addis Ababa University, Ethiopia
2017 – 2019	Visiting scholar, Peter the Great Polytechnical University, St. Petersburg Russia
2017	Chinese Academy of Science Fellow (South China Botanical Garden)
2016 – 2017	Associate Professor, Florida International University
2010 – 2016	Assistant Professor, Florida International University
2011	Visiting Fellow, Ecole Nationale Supérieure Agronomique de Toulouse, France
2007 – 2009	NIH NRSA Postdoctoral Fellow, UC Davis
2004 – 2006	EPA STAR Graduate Fellow, Brown University
2001	Naturalist, New York State Department of Environmental Conservation
1999 – 2000	Fulbright Scholar, Denmark
1999 – 2000	Rotary Ambassadorial Scholar, Denmark

### **C. Research Areas**

Regenerative Agricultural Systems, Rotational Grazing, Population genomics and domestication of legumes, symbiosis, abiotic stress tolerance, drought tolerance, conservation genetics, landscape genetics, dispersal along trade routes, crop breeding.

### **D. Teaching Experience**

Crop breeding, Crop domestication and Ecological History, Agroterrorism and Biopiracy, Quantitative Genetics, Food Systems Science and Policy, Population genetics, Evolutionary Biology, Research Methods

### **E. Synergistic Activities**

#### *International Science Mentoring*

Fulbright Specialist visiting Scholar, Ethiopia: International faculty mentor to six Ethiopian PhD students via USAID Feed the Future Program & Faculty instructor for “Tools in Population Genetics” workshop, Addis Ababa University, Ethiopia

Faculty host for Fulbright Scholar Petr Smykal, Olymouc University, Czech Republic (2018 – 2019)

Faculty host for Fulbright Scholar Pamela McLaughlin, University of Technology, Jamaica (2010).

Future Biotech Workshop Participant and Student Advisor (Novosibirsk, Russia, 2020)

Foundation for a Smoke Free World, Malawi Agricultural Transformation Initiative Science Advisor (2018 - )

*Editing:* Editorial Board, *Plants People Plant (New Phytologist Trust)* (2017 - )

Guest Editor, *Frontiers in Plant Science* (2019-2020) Neodomestication of wild plants

Guest Editor, *MDPI Int. J. Mol. Sci.* (2019-2020) Mendel's pea to legume genomics

Guest Editor, *MDPI Agronomy* (2017-2019) Domestication and Healthy Foods

*Service:* Vice President, Genetics Section, Botanical Society of America (2013-2014),

Secretary, International Legume Society (2017-2019); USDA ARS *Vigna* Crop

Germplasm Committee (2020 - )

*Reviewing:* FFAR Research Program (2017, 2018), NSF Plant Genome and IOS DDIG panelist

(2014-2018), NSF Population Biology and International Research Fellowship Panels

(2012-2018), Ad Hoc Reviewer (2007-2011), Reviewer for over 35 journals including

*Nature Communications, Proceedings of the National Academy of Science, Plant*

*Journal, Plant Physiology, and Crop Science.*

#### *Other Service*

Undergraduate mentoring: UVM Distinguished Undergraduate Research Advisor (2019 -), UVM

Food Systems Program Advisory (2018 - ). FIU MARC USTAR Faculty Mentor (2010 - 2017),

FIU MBRS-RISE Faculty Mentor (2010 - 2017), FIU STEM Transformation Institute Founding

Faculty Fellow (2013 - 2017), HHMI Faculty Fellow (2012-2014), HHMI Entering Mentoring

Program participant, UC Davis (2009)

Science Advising and Consulting: Foundation for a Smoke Free World Scientific Advisory

Committee (2018 - ), International Legume Society Science Advisory Board (2016 – 2021),

Working Lands Investment Fund Science Advisory Board (2019 - ), Friends of Chapman Field

USDA-ARS executive board (2015 - 2017), Miami-Dade Native Plant Society Executive Board

(2011 - 2017), Nantucket Conservation Foundation (2004-2008),

#### **F. Current Research Grants**

**USDA NIFA Hatch Funding:** Capacity funds for agricultural research. PI as AES director.

\$1.5M

**USDA NRCS Conservation Innovation Grant NR213A750013G035:** Managing Pasture for Healthy Farms and Soils Across Vermont. Co-PI with Nick Richardson, Vermont Land Trust. \$2.2M/\$200,000

**NSF Biology Integration Institute 2120153:** New Roots for Restoration. Co-PI with Allison Miller, Donald Danforth Institute for Plant Sciences. \$12M/392,000.

**USDA NIFA 2020-67016-31577:** Establishing a Pan-Epigenome for Cattle and Sheep. Current PI with Co-PI Stephanie McKay \$1.3M

**USDA NIFA 2022-67013-37120:** Cooperative Project: Establishing a genomic basis for mungbean breeding. Co-PI with PI Arti Singh, Iowa State. \$800,000/\$75,000

**VT Agency of Agriculture Specialty Crop Grant:** Dual-use winter tolerant winter peas for vegetable harvest and cover crop, \$39,000, PI, with co-PI's D. Tobin and S. Keller.

## **G. Selected Publications in Discipline**

- 1: Paper authored by graduate student
- 2: Paper authored by mentee (postdoc, laboratory technician or international scholar)
- 3: Corresponding author
- 4: Denotes equal contribution to authorship
- 5: Paper authored by an undergraduate student

### **Peer-Reviewed Publications**

105. **von Wettberg EJ**, Banks-Robinson C, Chakraborty D, Getahun T, Bakir M, Sassi G, Hart JA, Kretzler B, Laygh-Nikravesh N, Kantar MB, Chen YH, Tobin D, Kraft J, Houry CK, and King G. But does it taste good? A plea to consider the importance of flavor in managing plant genetic resources. *Plants People Planet*, accepted pending final revisions.

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 5.1, 5 year: 5.1; H-Index: 21; Role:** Wrote first draft of manuscript, wrote supporting grant proposal, recruited co-authors to provide specific viewpoints.

104. Rodríguez-Robles L, Devin SR, Ye X, Sagbas HI, Mahdavi SME, **von Wettberg E**, Feng J, Rubio M, Martínez-Gómez P. *Prunus* movement across the Silk Road: An integrated evolutionary, breeding and molecular analysis. *Horticulturae (MDPI)*, <https://www.mdpi.com/2311-7524/10/12/1381>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 3.1; 5 year: 3.4; H-Index: 36; Role:** contributed to initial concept development, edited manuscript.

103. Wiltshire S, Beckage B, Callahan C, Chase L, Conner D, Darby H, Kolodinsky J, Kraft J, Neher DA, Poleman W, Ricketts TH, Tobin D, **von Wettberg EJ**, Niles MT. 2024. Regional food system sustainability: Using team science to develop an indicator-based assessment framework. *Journal of Agriculture, Food Systems, and Community Development*. In Press

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 1.6; 5 year: 1.8; H-Index: 14; Role:** contributed to three of the underlying white papers used in the process and to integration processes, contributed to oversight committee developing the research process, contributed to edited manuscript

102. Alford BA, Bekele D, Yimer SM, Fayyaz A, Carrasquilla-Garcia N, Chang PL, Badger C, Surendrarao A, **von Wettberg EJ**, Munis MFM, Tesfaye K, Fikre A, Cook DR. 2024. Microbial community analysis offers insight into complex origins of plant disease in a smallholder farm context. *Phytobiomes*. 8:456-468 <https://apsjournals.apsnet.org/doi/pdf/10.1094/PBIOMES-02-24-0023-R>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 5.2; 5 year: 5.7; H-Index: 17; Role:** Contributed to supporting grants, performed DNA extractions, edited manuscript

101. Mastretta A, Tobin D, Bellon M, **von Wettberg EJ**, Cibrian A., Wegier A, Monroy-Sais A, Galvez-Reyes N, Ruiz-Arocho J, Chen YF. 2024. Human management of ongoing evolutionary processes in agroecosystems, *Plants People Planet*. <https://doi.org/10.1002/ppp3.10521>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 5.1, 5 year: 5.1; H-Index: 21; Role:** Contributed to supporting grants, edited manuscript

100. Krieg C<sup>2</sup>, Nikravesh N<sup>1</sup>, Smith DC, Adams MA, Dacosta-Calhieres E<sup>2</sup>, Berger J, **von Wettberg EJ**. 2024. Spatial genetic variation predicts spatial physiological variation and stress tolerance in genotypes of wild chickpea (*Cicer reticulatum*). *Scientific Reports*. 10.1038/s41598-024-56457-9

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 5.0, 5 year: 5.5; H-Index: 242; Role:** co-wrote supporting grants, supervised mentees and students, contributed to design of analysis and experimental setup, wrote manuscript sections, edited manuscript

99. Marques, E., Bueno E., Kerwein L, and von Wettberg E. (2024). Improving rotational partners: Intraspecies variation for pea cover cropping traits. *Agrosystems, Geosciences, and Environment*. 7. e20490. DOI: 10.1002/agg2.20490

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: NA; H-Index: NA; Role:** co-wrote supporting grants, contributed to design of analysis, supervised students and mentees, edited manuscript

98. Guerra-Garcia A., Oldrich O, Bruns J., Coyne C, Kumar S., Stergios K, Bett K, Varshney RK, **von Wettberg EJ**, Smýkal P. 2024. Genetic structure and ecological niche space of lentil's closest wild relative, *Lens orientalis* (Boiss.) Schmalh.

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/plb.13615>.

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: year: ; H-Index: Role:** co-wrote supporting grants, contributed to design of analysis, edited manuscript

97. Fumia, N, Nair R, Lin YP, Lee CR, Chen HW, **von Wettberg EJ**, Kantar M, Schafleitner R. 2023. Leveraging genomics and phenomics to speed improvement in mungbean: A case study in how to go from GWAS to Selection. *The Plant Phenome Journal*. <https://doi.org/10.1002/ppj2.20088>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 5 year: ; H-Index: Role:** co-wrote supporting grants, contributed to population development, edited manuscript

96. Delaney-Studer S, **von Wettberg EJ**, Towards the next angiosperm revolution: agroecological food production as a driver for biological diversity. 2023 *Elementa, special topic on "New Pathways to Sustainability in Agroecological Systems"* <https://online.ucpress.edu/elementa/article/11/1/00134/197385/Toward-the-next-angiosperm-revolution>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 4.3, 5 year: 3.5; H-Index: 40; Role:** Wrote genetics section, contributed to paper conceptualization.

95. Jain SK, **von Wettberg EJ**, Punia SS, Parihar AK, Lamichaney A, Kumar J, Gupta DS, Ahmad S, Pant NC, Dixit GP, Sari H, Sari D, Maaruf A, Toker P, Toker C. Genomics mediated breeding strategies for chickpea. *MDPI Agriculture*. <https://www.mdpi.com/2077-0472/13/9/1721>.

94. Lin YP, Chen HW, Yeh PM, Lin J, Anand SS, Li J, Noble T, Nair R, Schafleitner R, Samsonova M, **von Wettberg EJ**, Nuzhdin S, Ting CT, Lawn R, Lee CR., 2023. Demographic history and distinct selection signatures of two domestication genes in mungbean. *Plant Physiology*, <https://doi.org/10.1093/plphys/kiad356>

93. Ong PW, Lin YP, Chen HW, Lo CY, Burlyaeva M, Noble T, Nair RM, Schafleitner R, Vishnyakova M, **von Wettberg EJ**, Samsonova MG, Nuzhdin SV, Ting CT, Lee CR. 2023. Environment as a limiting factor of the historical global spread of mungbean. *ELIFE*. <https://doi.org/10.7554/eLife.85725>  
**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 8.7, 5 year: 7.9; H-Index: 161; Role:** co-wrote supporting grants, contributed to design of analysis, edited manuscript
92. Fayyaz A, Robinson G, Chang PL, Bekele D, Yimer SM, Carrasquilla-Garcia N, Negash K, Surndraro AK, **von Wettberg EJ**, Robbertse B, Ahmed S, Tesfaye K, Fikre A, Farmer AD and Cook DR. 2023. Hiding in plain sight: Genome-wide recombination and horizontal gene transfer drive clonal diversity in *Fusarium oxysporum fsp ciceris*. *Proceedings of the National Academy of Science*, <https://doi.org/10.1073/pnas.2220570120>  
**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 12.8, 5 year: 13.5; H-Index: 805; Role:** co-wrote supporting grants, contributed to collections and analyses
91. Igolkina A, Noujdina NV, Samsonova MG, **von Wettberg EJ**, Longcore T, Nuzhdin SV. 2023. Trade routes for diversification of domesticated chickpea inferred from landrace genomics. *Molecular Biology and Evolution*, <https://academic.oup.com/mbe/article/40/6/msad110/7158554>  
**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 8.8; 5 Year: 8; H-Index: 228. Role:** co-wrote supporting grants, contributed to design of analysis, edited manuscript
90. Bavykina M, Kostina N, Lee CR, Schafleitner R, **von Wettberg EJ**, Nuzhdin SV, Samsonova M, Gursky V, Kozlov K. 2022. Modeling of flowering time in *Vigna radiata* with Artificial Image Objects, Convolutional Neural Network and Random Forest, *MDPI Plants*. 11(23), 3327; <https://www.mdpi.com/1981000>:  
**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 4.6; 5 Year: 4.8; H-Index: 47; Role:** Contributed to manuscript conceptualization and supporting grant, revised manuscript
89. Jha U, Nayyar H, **von Wettberg EJ**, Thudi M, Siddique KHM. Legume Pangenome: Status and scope for crop improvement. *MDPI Plants*. 11(22), 3041; <https://doi.org/10.3390/plants11223041>  
**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 4.6; 5 Year: 4.8; H-Index: 47; Role:** Contributed to manuscript conceptualization, wrote section on ecological trade-offs, heavily revised manuscript.
88. Guerra-Garcia A<sup>2</sup>., Halleise T., Ogutcen E<sup>2</sup>, Ramsey L, Bett, K, **von Wettberg EJ**. 2022. An unexpected diversity of lentils: Single Nucleotide Polymorphism and Copy Number variation in *Lens culinaris*. *Evolutionary Applications*. <https://doi.org/10.1111/eva.13467>  
**Times Cited (ISI/Google Scholar): 5:5; ISI Impact Factor: 2021: 4.9; 5 year: 5.5; H-Index: 74; Role:** Contributed to supporting grants, designed analyses, co-supervise supervised two postdoctoral co-authors, edited manuscript.
87. Jha UC, Nayyar H, Parida SK, Deshmukh R, **von Wettberg EJ**, Siddique KHM. 2022. Ensuring global food security by improving protein content in major grain legumes using breeding and ‘omics’ tools. *International Journal of Molecular Science*, *MDPI*. 23(14), 7710; <https://doi.org/10.3390/ijms23147710> ; also linked at: <https://encyclopedia.pub/entry/26376>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 6.2; 5 Year: 6.6; H-Index: 195; Role:** Contributed to manuscript conceptualization, wrote section on ecological trade-offs, heavily revised manuscript.

86. Renzi JP, Brus J, Coyne C, Berger J, **von Wettberg EJ**, Nelson M, Ureta S, Hernández F, Smýkal P. 2022. How could the use of crop wild relatives in breeding increase the adaptation of crops to marginal environments? *Frontiers in Plant Science*. V13 <https://doi.org/10.3389/fpls.2022.886162>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor 2021: 6.6; 5 year: 7.3; H-Index: 101; Role:** Wrote sections of manuscript on wild relative conservation, heavily revised entire manuscript.

85. Neher D, Harris JA, Horner K., Scarsborough M, Baddireddy A, Faulkner J, White A, Darby H, Farley J, **von Wettberg EJ**. 2022 Resilient Soils for Resilient Farms: An Integrative Approach to Assess, Promote and Value Soil Health for Small- and Medium-Size Farms. *Phytobiomes*. V6. <https://doi.org/10.1094/PBIOMES-10-21-0060-P>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 5.2; 5 year: 5.7; H-Index: 17; Role:** Wrote sections of manuscript, revised entire manuscript, contributed to writing supporting grant and conceptualizing project and outputs.

84. Jha U, Nayyar H, Parida SK, Bakir M, **von Wettberg EJ**, Siddique KHM. 2022. Progress of genomics-driven approaches for sustaining underutilized legume crops in the post-genomic era. *Frontiers in Genetics*. <https://doi.org/10.3389/fgene.2022.831656>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 4.7; 5 year: 4.9; H-Index: 101; Role:** Wrote sections of manuscript, heavily revised entire manuscript.

83. Shafer P<sup>1</sup>, Chen YH, Reynolds T, and **von Wettberg EJ**<sup>3</sup>. Farm to Institution to Farm: Circular Food Systems With Native Entomoculture. *Frontiers in Sustainable Food Systems*, <https://doi.org/10.3389/fsufs.2021.721985>

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 5.0, 5 year: 5.5; H-Index: 24 Role:** Co-supervised lead graduate student author, co-wrote supporting grants, wrote sections of review, editing and revising.

82. Ageev A, Lee CR, Ting CT, Schafleitner R, **von Wettberg EJ**, Nuzhdin S, Samsonova MG, Kozlov K. 2022. Modeling of flowering time in *Vigna radiata* with Approximate Bayesian Computation. *MDPI Agronomy*. 11(11), 2317; <https://doi.org/10.3390/agronomy11112317>.

**Times Cited (ISI/Google Scholar): 0:1; ISI Impact Factor: 2021: 3.9, 5 year: 4.1 ; H-Index: 50; Role:** co-wrote supporting grant, editing and revising.

81. Varshney RK\*, Roorkiwal M, Sun S, Bajaj P, Chitikineni A, Thudi M, Singh NP, Du A, Khan AW, Wang Y, Garg V, Upadhyaya HD, Fan G, Cowling W, Crossa J, Gentzbittel L, Voss-Fels K, Valluri V, Sinha P, Singh VK, Ben C, Rathore A, Ramu P, Singh MK, Tar'an B, Bharadwaj C, Yasin M, Pithia MS, Singh S, Soren KR, Kudapa H, Jarquin D, Hickey L, Dixit GP, Hamwieh A, Kumar S, Deokar S, Chaturvedi SK, Howard R, Edwards D, Lyons E, Kumar A, Vigouroux Y, Hayes B, **von Wettberg EJ**, Datta SK, Yang H, Nguyen H, Wang J, Siddique KHM, Mohapatra

T, Bennetzen JL, Xun X, Xin L. 2021 A global reference for chickpea genetic variation based on the sequencing of 3,366 genomes. *Nature*. <https://doi.org/10.1038/s41586-021-04066-1>  
**Times Cited (ISI/Google Scholar): 17:27; ISI Impact Factor: 2021: 69.5; 5 year: 63.6; H-Index: 1276; Role:** Developed population genomic analysis, trained staff at ICRISAT, wrote sections of review, editing.

80. Ageev A, Aydogan A, **von Wettberg EJ**, Nuzhdin SV, Samsonova M. Kozlov K. 2021. Simulation model for time to flowering with climatic and genetic inputs for wild chickpea. *MDPI Agronomy*. 11(7):1389. [10.3390/agronomy11071389](https://doi.org/10.3390/agronomy11071389)  
**Times Cited (ISI/Google Scholar): 2:2; ISI Impact Factor: 2021: 3.9, 5 year: 4.1 ; H-Index: 50; Role:** co-wrote supporting grant, wrote sections of review, editing and revising.

79. Getahun T, Fikre A, Gaur PM, **von Wettberg EJ**, Hailelassie T, Cook DR, Tesfaye K. 2021. Screening of heat tolerant chickpea (*Cicer arietinum* L.) accessions in Semi-Arid Tropics through field phenotyping of phenological and agro-morphological traits and assess genomic relationships among the accessions by using genome wide SNP markers. *Agrosystems, Geosciences and Environment*. 10.1002/agg2.20211  
**Times Cited (ISI/Google Scholar): 1:2; ISI Impact Factor: NA; H-Index: NA; Role:** co-wrote supporting grant, co-supervise lead graduate student, wrote sections of review, editing.

78. Guerra-Garcia A<sup>2</sup>, Gioia T, **von Wettberg EJ**, Logozzo G, Papa R, Bitocchi E, and Bett K. 2021. INCREASE intelligent collection of lentil genetic resources: evolutionary history, recent genomic characterization of germplasm, and the need for well characterized collections. *Current Protocols*, e134. <https://doi.org/10.1002/cpz1.134>  
**Times Cited (ISI/Google Scholar): 0:4; ISI Impact Factor: 2011: NA; 5 year: NA; H-Index: 4; Role:** co-wrote supporting grant, co-supervise lead postdoctoral scholar, wrote sections of review, editing.

77. Toker C, Berger J, Bilal A, Eker T, Sari D, Sari H, Gokturk RS, Kahraman A, **von Wettberg EJ**. 2021. A new *Cicer* species and its potential to improve chickpea. *Frontiers in Plant Science*. 12, 587. <https://doi.org/10.3389/fpls.2021.662891>  
**Times Cited (ISI/Google Scholar): 8:11; ISI Impact Factor: 2021: 6.6; 5 year: 7.3; H-Index: 101; Role:** co-wrote supporting grants, contributed to collection missions, heavily revised manuscript.

76. Wendlandt C, Helliwell E, Roberts M, Nguyen K, Friesen ML, **von Wettberg EJ**, Price P, Griffiths J. and Porter SP. 2021. Co-evolutionary dynamics in the biological invasion of a legume-rhizobium mutualism. *Evolution*. 75: 731-747. <https://doi.org/10.1111/evo.14164>  
**Times Cited (ISI/Google Scholar): 11:7; ISI Impact Factor: 2021: 4.2, 5 year:3.9; H-Index: 206; Role:** Co-wrote supporting grant, collected samples and contributed to design, revised manuscript.

75. Lopez Z., Friesen ML, **von Wettberg EJ**, New L, Porter SP. 2021. Mutualist distribution constrains the spread of invasive legume *Medicago polymorpha* across the landscape. *Biological Invasions*. 23:1-14 [10.1007/s10530-020-02404-4](https://doi.org/10.1007/s10530-020-02404-4)

**Times Cited (ISI/Google Scholar): 4:3; ISI Impact Factor: 2021: 3.6, 5 year: 3.9; H-Index: 116; Role:** Co-wrote supporting grant, collected samples and contributed to design, revised manuscript.

74. Damtew ZM, Cook DR, Greenlon A, Fikre Z, **von Wettberg EJ**, Marques E, Tesfaye K, Carrasquilla-Garcia N, Assefa F. 2020. Ecological Competence, Plant Growth Promoting and Symbiotic Characteristics of Different Mesorhizobium Strains Nodulating Chickpea (*Cicer arietinum* L.) from Ethiopia. *Journal of Plant Pathology and Microbiology*. 11:508. DOI: 0.35248/2157-7471.20.11.508

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: NA, 5 year:-NA; H-Index: NA; Role:** Co-wrote supporting grant, collected samples, and contributed to design.

73. McCouch S, Navabi K, Abberton M, Anglin NL, Barbieri RL, Baum M Bett K, Booker H, Brown GL, Bryan GJ, Cattivelli L, Charest D, Eversole K, Freitas M, Ghamkhar K, Grattapaglia D, Henry R, Valadares Inglis MC, Islam T, King G, Kehel Z, Kersey PJ, Kresovich S, Marden E, Mayes S, Ndjiondjop MN, Nguyen HT, Paiva S, Papa R, Phillips PBW, Rasheed A, Richards C, Rouard M, Amstalden Sampaio MJ, Scholz U, Shaw PD, Sherman B, Staton ES, Stein N, Svensson J, Tester M, Montenegro Valls JF, Varshney R, Visscher S, **von Wettberg EJ**, Waugh R, Wenzl PB, Rieseberg LH. 2020. Mobilizing Crop Biodiversity. *Molecular Plant*. 13: 1341-1344. <https://doi.org/10.1016/j.molp.2020.08.011>

**Times Cited (ISI/Google Scholar): 17:31; ISI Impact Factor: 2021: 21.9, 5 year: 19.6; H-Index: 128; Role:** Wrote one of many supporting grants, developed a DIVSEEK theme, revised manuscript.

72. Marques E<sup>1</sup>, Krieg CP<sup>2</sup>, Dacosta-Calheiros E<sup>2</sup>, Bueno E<sup>2</sup>, Sessa E, Penmetsa RV, and **von Wettberg EJ**<sup>3</sup>. 2020. The Impact of Domestication on Aboveground and Belowground Trait Responses to Nitrogen Fertilization in Wild and Cultivated Genotypes of Chickpea (*Cicer* sp.). *Frontiers in Genetics*. <https://doi.org/10.3389/fgene.2020.576338>

**Times Cited (ISI/Google Scholar): 4:7; ISI Impact Factor: 2019:3.2; 5 year 4.0; H-Index: 69; Role:** Co-wrote supporting grants, designed experiment and supervised execution analysis and writing, supervised students, revised manuscript.

71. Kozlov K, Sokolkova A, Burlyaeva M, Vishnyakova A, Gurkina M, Yen J, Lee CL, Ting CT, Schafleitner R, Nuzhdin SV, **von Wettberg EJ**, Samsonova M. 2020; Dynamical climatic model for time to flowering in *Vigna radiata*. *BMC Plant Biology*: 20(S)202. <https://doi.org/10.1186/s12870-020-02408-1>

**Times Cited (ISI/Google Scholar): 4:5; ISI Impact Factor: 2021: 5.3, 5 year: 5.8; H-Index: 123; Role:** Co-wrote supporting grants, co-wrote paper, revised manuscript.

70. Sokolkova A, Burlyaeva M, Valiannikova T, Vishnyakova M, Schafleitner S, Lee CR, Ting CT, Nuzhdin SV, Samsonova MG, **von Wettberg EJ**. 2020 Genome-wide association study in accessions of the mini-core collection of mungbean (*Vigna radiata*) from the World Vegetable Gene Bank (Taiwan). *BMC Plant Biology* 20(S)303 <https://doi.org/10.1186/s12870-020-02579-x>  
**Times Cited (ISI/Google Scholar): 9:19; ISI Impact Factor: 2021: 5.3, 5 year: 5.8; H-Index: 123; Role:** Co-wrote supporting grants, co-wrote paper, revised manuscript.

69. Sokolkova A, Bulyntsev SV, Chang PL, Carrasquilla-Garcia N, Igolkina A., Noujdina NV, **von Wettberg EJ**, Cook DR, Vishnyakova MA, Nuzhdin SV, Samsonova MG. 2020 Genomic analysis of Vavilov's historic chickpea landraces reveals footprints of environmental and human selection. *International Journal of Molecular Sciences (MDPI)*, 21(11), p.3952

**Times Cited (ISI/Google Scholar): 1:9; ISI Impact Factor: 2021: 6.2; 5 Year: 6.6; H-Index: 195; Role:** Co-wrote supporting grants, co-wrote paper, revised manuscript.

68. Marques E1, Kur A1, Bueno E2., and von Wettberg EJ3. 2020. Defining ‘rotational value’ of crops. *Crop Science*, DOI: 10.1002/csc2.20200

**Times Cited (ISI/Google Scholar): 4:9; ISI Impact Factor: 2021: 2.8; 5 year: 2.8; H-Index: 140; Role:** Co-wrote supporting grants, co-wrote paper, supervised graduate student authors, revised manuscript.

67. Coyne C, Kumar S. **von Wettberg EJ**, Marques E<sup>1</sup>, Berger J, Redden R, Ellis N, Brus J, Zablazská L, Smýkal P. 2020. Potential and limits of exploitation of crop wild relatives for pea, lentil and chickpea improvement. *Legume Science*.

<https://onlinelibrary.wiley.com/doi/full/10.1002/leg3.36>

**Times Cited (ISI/Google Scholar): -:51; ISI Impact Factor: 2021 NA 5 year: NA; H-Index: 9; Role:** Co-wrote supporting grants, co-wrote paper, supervised graduate student co-author, revised manuscript.

66. Sivasakthi K\*, Marques E\*<sup>1</sup>, Kalungwana NA, Carrasquilla-Garcia N, Chang PL, Bergmann EM, Bueno E<sup>2</sup>, Bosch C, Cordeiro MA, Udupa SM, Mohammed I, Mir RR, Vadez V, Vandemark G, Gaur PM, Cook DR, **von Wettberg EJB**, Kholova J, Penmetsa RV. 2020. Functional dissection of the chickpea (*Cicer arietinum* L.) stay-green phenotype associated with molecular variation at an ortholog of Mendel’s I gene for cotyledon color: implications for crop production and carotenoid biofortification. *International Journal of Molecular Sciences* [10.3390/ijms20225562](https://doi.org/10.3390/ijms20225562) \* co-first authors.

**Times Cited (ISI/Google Scholar): 5:7; ISI Impact Factor: 2021: 6.2; 5 Year: 6.6; H-Index: 195; Role:** Co-wrote supporting grants, co-wrote paper, supervised graduate student co-first author, revised manuscript.

65. Bauchet G, Bett K, Cameron C, Campbell JD, Cannon EKS, Cannon SB, Carlson JW, Chan A, Cleary A, Close TJ, Cook DR, Cooksey AM, Coyne C, Dash S, Dickstein R, Farmer AD, Fernández-Baca D, Hokin S, Jones ES, Kang Y, Monteros MJ, Muñoz-Amatriain M, Mysore K, Pislariu CI, Richards C, Shi A, Town C, Udvardi M, **von Wettberg EJ**, Young ND, Zhao P. 2020. The future of legume genetic data resources: challenges, opportunities, and priorities. *Legume Science*, <https://doi.org/10.1002/leg3.16>

**Times Cited (ISI/Google Scholar): -:19; ISI Impact Factor: 2021: NA, 5 year: NA; H-Index: 9; Role:** Contributed to meeting and sections on breeding, genebanks, and comparative genomics.

64. Brønnvik H<sup>5</sup>, and **von Wettberg EJ**. 2019. Bird dispersal as a pre-adaptation for domestication. 2019. *Frontiers in Plant Science*. <https://doi.org/10.3389/fpls.2019.01293>

**Times Cited (ISI/Google Scholar): 1:1; ISI Impact Factor: 2021: 6.6; 5 year: 7.3; H-Index: 101; Role:** Co-wrote supporting grant, co-wrote paper, supervised undergraduate student co-author, revised manuscript.

63. Greenlon A, Chang P, Damtew ZM, Muleta A, Carrasquilla-Garcia N, Kim D, Nguyen HP, Yadav SK, Patel JK, Mukherjee A, Udupa S, Benjelloun I, Thami-Alami I, Yasin M, Patil B, Singh S, Singh B, **von Wettberg EJ**, Kahraman A, Bukun B, Assefa F, Tesfaye K, Fikre A, Cook DR, 2019. Global-level population genomics reveals differential effects of geography and phylogeny on horizontal gene transfer in soil bacteria. *Proceedings of the National Academy of Science*, <https://doi.org/10.1073/pnas.1900056116>

**Times Cited (ISI/Google Scholar): 41:58; ISI Impact Factor: 2021: 12.8, 5 year: 13.5; H-Index: 805; Role:** Co-wrote supporting grant, performed field work, revised manuscript.

62. Varshney RK, Thudi M, Roorkiwal M, He W, Upadhyaya H, Yang W, Bajaj P, Curby P, Rathore A, Jian J, Doddamani D, Khan AW, Garg V, Chitikineni A, Xu D, Gaur PM, Singh NP, Chaturvedi SK, Krishnamurth L, Fikre A, Kimurto P, Sheshashayee MS, Bharadwaj C, Wang J, Lee SH, Edwards D, Kavikishor PB, Nguyen HT, Siddique KHM, Sutton T, Penmetsa RV, **von Wettberg EJ**, Vigouroux Y, Liu X, Xun X. 2019. Resequencing of 429 chickpea accessions from 45 countries provides insights into genome diversity, domestication and agronomic traits. *Nature Genetics*, 51(5), p.857.

**Times Cited (ISI/Google Scholar): 101:168; ISI Impact Factor: 2021 year: 41.4, 5 year: 39.3; H-Index: 597; Role:** Advised on analyses, substantially revised manuscript.

61. Krieg CP<sup>2</sup>, Valls R<sup>5</sup>, Vatland S, Gordnier J, Porter SS, Friesen ML, **von Wettberg EJ**. 2019. Nitrogen Fixation: Fixing the Gap Between Concept and Evidence Based Learning with Legume Biology. *American Biology Teacher*, 81: 250-255.

**Times Cited (ISI/Google Scholar): 1:1; ISI Impact Factor: 2021 0.5, 5 year: 0.5; H-Index 32; Role:** Co-wrote supporting grants, performed outreach and research activities, supervised students and research assistants, and co-wrote paper.

60. Burlyaeva M, Vishnyakova M, Gurkina M, Kozlov K, Lee CR, Ting CT, Schafleitner R, Nuzhdin SV, Samsonova MG **von Wettberg EJ**. 2019. Collections of *Vigna radiata* and *V. mungo* in Vavilov Institute (VIR): traits diversity and trends in the breeding process over the last 100 years. *Genetic Resources and Crop Evolution*. <https://doi.org/10.1007/s10722-019-00760-2>

**Times Cited (ISI/Google Scholar): 4:7; ISI Impact Factor: 2021: 1.9, 5 year: 1.9; H-Index: 69; Role:** Co-wrote grants, performed some analyses, co-wrote manuscript.

59. Warschefsky EJ<sup>1</sup>, **von Wettberg EJ**. 2019. Population genetics and human dispersal of mangoes. *New Phytologist*: <https://doi.org/10.1111/nph.15731>

**Times Cited (ISI/Google Scholar): 19:34; ISI Impact Factor: 2021: 10.3, 5 year: 10.8; H-Index: 263; Role:** Supervised graduate student lead author, advised on design, data collection, analysis, and writing.

58. Fawcett S, Sistla S, Dacosta-Calheiros E, Kahraman A, Reznicek A, Rosenberg R, **von Wettberg EJ**. 2019. Tracking microhabitat temperature variation with iButton dataloggers. *Applications in Plant Sciences*. 7(4): e01237, doi: [10.1002/aps3.1237](https://doi.org/10.1002/aps3.1237)

**Times Cited (ISI/Google Scholar): 7:11; ISI Impact Factor: 2021: 2.5, 5 year: 2.4; H-Index: 29; Role:** Co-wrote supporting grants, supervised technician co-author, analyzed datasets, and co-wrote paper.

57. Kozlov K, Singh A, Berger J, **von Wettberg EJ**, Kahraman A, Aydogan A, Cook DR, Nuzhdin SV, Samsonova M. 2019. Non-linear regression models for time to flowering in wild chickpea combine genetic and climatic factors. *BMC Plant Biology* 19:4. <https://bmcplantbiol.biomedcentral.com/articles/10.1186/s12870-019-1685-2>

**Times Cited (ISI/Google Scholar): 11:22; ISI Impact Factor: 2021: 5.3, 5 year: 5.8; H-Index: 123; Role:** Co-PI on supporting grants, performed field collection, advised on models, edited manuscript.

56. Saxena KB, Saxena RK, Sharma, S Sameer Kumar CV, Sultana R, **von Wettberg EJ**, Varshney RK. 2018. The drivers and methodologies for exploiting wild *Cajanus* genome in pigeonpea breeding—a review. *Euphytica*, 214, 222, <https://doi.org/10.1007/s10681-018-2298-9>  
**Cited (ISI/Google Scholar): 3:3; ISI Impact Factor: 2021: 2.2, 5 year: 2.4; H-Index: 110; Role:** Wrote section of the review on genomic inference from pigeonpea crop wild relatives, edited manuscript.

55. Chen, YH, Ruiz-Arocho J, **von Wettberg EJ**. 2018. Crop domestication: Anthropogenic effects on insect-plant interactions in agroecosystems. 2018. *Current Opinion in Insect Science*. 29: 56-63, <https://doi.org/10.1016/j.cois.2018.06.004>

**Times Cited (ISI/Google Scholar): 10:17 ISI Impact Factor: 2021: 5.3, 5 year: 6; H-Index: 50; Role:** Wrote section of manuscript, contributed to theme.

54. Helliwell E, Faber-Hammond J, Lopez Z, **von Wettberg EJ**, Friesen ML, Porter SS. 2018. Molecular Diversity across the exotic range of *Medicago polymorpha* in North America. *Molecular Ecology*, 27, 4758-4774. <https://doi.org/10.1111/mec.14898>

**Cited (ISI/Google Scholar): 10:15; ISI Impact Factor: 2021: 6.6, 5 year: 6.9; H-Index: 235; Role:** PI of first submission of NSF proposal funding work; made Florida component of collection, advised on analysis, edited manuscript.

53. Oleas NH<sup>2</sup>, Peterson CL, Thompson J, Richardson ML, Reynaldo Y<sup>2</sup>, **von Wettberg EJ**. 2018. Genetic and habitat variation among populations of *Vicia ocalensis* in the Ocala National Forest, USA. *Journal of the Torrey Botanical Society*, 145:202-211, <http://www.bioone.org/doi/10.3159/TORREsY-D-16-00064.1>

**Times Cited (ISI/Google Scholar): 1:3; ISI Impact Factor: 2021: 0.5, 5 year: 0.6; H-Index 47; Role:** Wrote supporting grant, performed analyses, supervised lead author, and co-wrote paper.

52. Ogutcen E, Pandey A, Khan MK, Marques E, Penmetsa RV, Kahraman A, **von Wettberg EJ**. Pod shattering: A homologous series of variation underlying domestication and an avenue for crop improvement. *MDPI Agronomy* 2018, 8(8), 137; [doi.org/10.3390/agronomy8080137](https://doi.org/10.3390/agronomy8080137)  
**Times Cited (ISI/Google Scholar): 18:34; ISI Impact Factor: 2021: 3.9; 5 year: 4.1 ; H-Index: 50; Role:** Co-wrote supporting grants, co-wrote paper, supervised student co-author, co-supervised post-doctoral co-lead author.

51. Smýkal P, Nelson M, Berger J, **von Wettberg EJ**. 2018. The Impact of Genetic Changes during Crop Domestication. *MDPI Agronomy*. 8(3):26. <http://www.mdpi.com/2073-4395/8/7/119>

**Times Cited (ISI/Google Scholar): 43:137; ISI Impact Factor: 2021: 3.9, 5 year: 4.1 ; H-Index: 50; Role:** Co-wrote supporting grants and co-wrote paper.

50. Ogutcen E<sup>2</sup>, Ramsey L, **von Wettberg EJ**, Bett, K. 2018. An exome capture array for lentil, *Lens culinaris*. *Applications in Plant Science*, <https://doi.org/10.1002/aps3.1165>

**Times Cited (ISI/Google Scholar): 17:39; ISI Impact Factor: 2021: 2.5, 5 year: 2.4; H-Index: 29; Role:** Co-wrote supporting grant, co-supervised postdoctoral lead author, and co-wrote paper.

49. Sani SGAS<sup>2</sup>, Zubair Z, Munis FH, Carasquilla-Garcia N, Cordeiro MA<sup>2</sup>, Penmetsa RV, Chang PL, Nuzhdin SV, Cook DR, **von Wettberg EJ**. 2018. Exploring the genetic diversity and population structure in Chickpea (*Cicer arietinum*) cultivated germplasm from Pakistan. *Plant Genome*, 11. doi: 10.3835/plantgenome2017.08.0067.

**Times Cited (ISI/Google Scholar): 10:17; ISI Impact Factor: 2021: 4.2, 5 year: 5.8; H-Index: 48; Role:** Co-wrote supporting grants, co-supervised lead student author, performed analyses, and co-wrote paper.

48. **von Wettberg EJ**<sup>3</sup>, Chang PL, Greenspan A, Carrasquilla-Garcia N, Basdemir F, Moenga S, Bedada G, Dacosta-Calheiros E<sup>2</sup>, Moriuchi KS<sup>2</sup>, Balcha L<sup>2</sup>, Mamo B, Singh V, Cordeiro MA, Vance L, Bergmann E, Warschefsky EJ<sup>1</sup>, Marques E<sup>1</sup>, Dinegde KN<sup>2</sup>, Sani SG<sup>2</sup>, Getahun T, Yilmaz MA, Cacmak A, Rose J<sup>2</sup>, Migneault A<sup>2</sup>, Krieg CP<sup>2</sup>, Saylak S, Temel H, Noujdina NV, Friesen ML, Siler E, Lindsay D, Akhmetov Z, Ozelik H, Kholova J, Can C, Caur P, Yildirim M, Sharma H, Vadez V, Tesfaye K, Woldemedhin AF, Tar'an B, Ayodogan A, Bekun B, Penmetsa RV, Berger J, Kahraman A, Nuzhdin SV, Cook DR<sup>3</sup>. 2018. Ecology and community genomics of an important crop wild relative as a prelude to agricultural innovation. *Nature Communications*, 9, doi:10.1038/s41467-018-02867-z

**Times Cited (ISI/Google Scholar): 84:135; ISI Impact Factor: 2021: 17.8, 5 year: 17.8; H-Index: 410 Role:** Co-wrote several supporting grants, performed collection and analyses, supervised students and associated researchers, and co-wrote paper.

47. Damaso N<sup>2</sup>, Mendoza M, Oliva Y, Diaz A, **von Wettberg EJ**, Narisihan G, Mills D. 2018. Spatial autocorrelation of soil biota profiles with geographic location can be used for soil provenance. *Journal of Forensic Science*, 63, <https://doi.org/10.1111/1556-4029.13741>.

**Times Cited (ISI/Google Scholar): 12:19; ISI Impact Factor: 2021 1.7, 5 year: 1.7; H-Index: 101; Role:** Guided spatial analyses, trained led student author, contributed substantial revisions to paper.

46. Talip M, Adak A, Kahraman A, Berger J, Sari D, Sari H, Penmetsa RV, **von Wettberg EJ**, Cook DR, Toker C. 2018. Agro-morphological Traits of *Cicer reticulatum* Ladizinsky in Comparison to *C. echinospermum* P.H. Davis in terms of Improvement. *Genetic Resources and Crop Evolution*, <https://doi.org/10.1007/s10722-017-0587-0>.

**Times Cited (ISI/Google Scholar): 11:16; ISI Impact Factor: 2021: 1.9, 5 year: 1.9; H-Index: 69; Role:** Co-wrote grants, performed collection, substantially revised manuscript.

45. Tekin M, Sari D, Catal M, Ikten C, Smýkal P, Penmetsa RV, **von Wettberg EJ**, Toker C. 2018. Ecogeographic distribution of *Cicer isauricum* and environmental stresses in the native range of the species. *Genetic Resources and Crop Evolution*.

<http://link.springer.com/article/10.1007%2Fs10722-017-0509-1>

**Times Cited (ISI/Google Scholar): 4:10; ISI Impact Factor: 2021: 1.9, 5 year: 1.9; H-Index: 69; Role:** Co-wrote grants, performed collection, substantially revised manuscript.

44. Scharnagl K<sup>1</sup>, Scharnagl A, and **von Wettberg EJ**<sup>3</sup>. 2017 On the Nature of Things: Salt accumulation in fungi. *American Journal of Botany*, 104: 641-644. doi:10.3732/ajb.1700034

**Times Cited (ISI/Google Scholar): 9:11; ISI Impact Factor: 2021: 3.3, 5 year: 4.0; H-Index: 159; Role:** Co-created topic, supervised lead student, co-wrote and revised manuscript.

43. Wang J, Feng C<sup>2</sup>, Jiao T, **von Wettberg EJ**, Kang M. 2017. Genomic signature of adaptive divergence despite strong non-adaptive forces on edaphic islands: a case study of *Primulina juliae*. *Genome Biology and Evolution*, doi: 10.1093/gbe/evx263

**Times Cited (ISI/Google Scholar): 12:14; ISI Impact Factor: 2021: 4.0, 5 year: 4.2; H-Index: 81; Role:** Co-wrote grant, advised on analyses, substantially revised manuscript.

42. Feng C<sup>2</sup>, Xu M, Feng C, **von Wettberg EJ**, Kang M. 2017. The complete chloroplast genome of *Primulina* and two novel strategies for development of high polymorphic loci for population genetic and phylogenetic studies. *BMC Evolutionary Biology*, 17:224

DOI 10.1186/s12862-017-1067-z

**Times Cited (ISI/Google Scholar): 17:15; ISI Impact Factor: 2021: 3.4, 5 year: 3.9; H-Index: 128; Role:** Co-wrote grant, advised on analyses, substantially revised manuscript.

41. Kahraman A, Pandey A, Khan MK, Lindsay D, Moenga S, Vance L; Bergmann, EM, Carrasquilla-Garcia N, Chang PL, Shin MG, **von Wettberg EJ**, Tar'an B, Cook DR, Penmetsa RV. 2017. Distinct subgroups of *Cicer echinospermum* are associated with hybrid sterility and hybrid breakdown in interspecific crosses with cultivated chickpea. *Crop Science*, doi:10.2135/cropsci2017.06.0335

**Times Cited (ISI/Google Scholar): 10:21; ISI Impact Factor: 2021: 2.8; 5 year: 2.8; H-Index: 140; Role:** Co-wrote supporting grants, advised on analyses, substantially revised manuscript.

**Published after Achieving Tenure and Promotion to Associate Professor at FIU (June 2016):**

40. Plekhanova E, Vishnyakova MA, Bulintsev, Chang PL, Carrasquilla-Garcia N, Negash K<sup>2</sup>, **von Wettberg EJ**, Noujdina N, Cook DR, Samsonova MG, Nuzhdin SV. 2017. Genomic and phenotypic analysis of Vavilov's historic landraces reveals the impact of environment and genomic islands of agronomic traits. *Scientific Reports*, [10.1038/s41598-017-05087-5](https://doi.org/10.1038/s41598-017-05087-5)

**Times Cited (ISI/Google Scholar): 11:24; ISI Impact Factor: 2021: 5.0, 5 year: 5.5; H-Index: 242; Role:** Co-wrote supporting grants, advised on analyses, substantially revised manuscript.

39. Varshney RK, Saxena RK, Upadhyaya HD, Khan A, Yu O, Kim C, Rathore A, Seon D, Kim J, An S, Kumar V, Anuradha G, Yamini K, Zhang W, Muniswamy Z, Kim B, Penmetsa RV, **von Wettberg EJ**, and Datta SK. 2017. Whole genome re-sequencing of 292 pigeonpea cultivars, landraces and wild species accessions provides targets for domestication and genomic regions associated with agronomic traits for crop improvement. *Nature Genetics*, 49: 1082. doi:10.1038/ng.3872

**Times Cited (ISI/Google Scholar): 111:171; ISI Impact Factor: 2021 year: 41.4, 5 year: 39.3; H-Index: 597; Role:** Advised on analyses, substantially revised manuscript.

38. Barbosa-Gómez I<sup>2</sup>, Montoya KPC<sup>2</sup>, Ledesma N, Sáyago-Ayerdi S, Gacía-Magaña ML, von Wettberg EJ, Montalvo-González E. 2017 Changes in the nutritional quality of five *Mangifera* species harvested in two-maturity stages. *Journal of the Science of Food and Agriculture*, DOI 10.1002/jsfa.8377.

**Times Cited (ISI/Google Scholar): 8:17; ISI Impact Factor: 2021: 4.1, 5 year: 4.0; H-Index: 152; Role:** Hosted and supervised students, advised on analyses, substantially revised manuscript.

37. Jones I, Koptur S, **von Wettberg EJ**. 2016 Extrafloral Nectar in Agriculture: Overcoming Context Dependence. *Journal of Applied Ecology*, 54: 489-499. 10.1111/1365-2664.12778

**Times Cited (ISI/Google Scholar): 18:25; ISI Impact Factor: 2019: 6.9, 5 year: 7.8; H-Index: 192; Role:** Co-planned manuscript,, co-wrote and revised manuscript.

36. Warschefsky E<sup>1</sup>, Chitwood DH, Frank M, Klein L, Londo J, **von Wettberg EJ**, Miller A. 2016 Rootstocks: diversity, domestication and impacts on shoot phenotypes. *Trends in Plant Science* 21: 418-437.

**Times Cited (ISI/Google Scholar): 183:271; ISI Impact Factor: 2021: 22, 5 year: 23.1; H-Index: 278; Role:** Co-planned manuscript, wrote section of manuscript, supervised the lead student author.

35. Penmetsa RV, Carrasquilla-Garcia N, Bergmann EM, Vance L, Castro B<sup>5</sup>, Kassa MT<sup>2</sup>, Sarma BK, Datta S, Dubey A, Gujaria N, Baek JM, Woodward JE, Farmer AD, Coyne CJ, Upadhyaya H, **von Wettberg EJ**, Varshney RK, Cook DR. 2016. Allelic variation at a domestication-related transcription factor and the multiple origins of the kabuli chickpea (*Cicer arietinum*). *New Phytologist*, doi:10.1111/nph.14010

**Times Cited (ISI/Google Scholar): 32:42; ISI Impact Factor: 2021: 10.3, 5 year: 10.8; H-Index: 263; Role:** Co-wrote supporting grants, contributed analyses, co-wrote manuscript.

34. Moriuchi KS<sup>2</sup>, Friesen ML, Cordeiro MA<sup>2</sup>, Badri M, Vu WT, Main BA, Arraouadi S, Aouani ME, Nuzhdin SV, Cook DR, Strauss SY, **von Wettberg EJ**. 2016 Transgenerational plasticity for traits underlying salinity tolerance, local adaptation, and phenotypic integration in *Medicago truncatula*. *PlosOne* DOI: 10.1371/journal.pone. 015035

**Times Cited (ISI/Google Scholar): 12:22; ISI Impact Factor: 2021: 3.8; 5 year: 4.1; H-Index: 367; Role:** Co-wrote supporting grant, co-supervised mentees and analysis, co-wrote manuscript.

**Published after Successful Third Year Review at FIU (June 2012):**

33. Fotinos TD<sup>1</sup>, Namoff S<sup>2</sup>, Lewis C, Griffith MP, Maschinski J, **von Wettberg EJ** 2015 Genetic evaluation of a reintroduction of Sargent's Cherry Palm, *Pseudophoenix sargentii*. *Journal of the Torrey Botanical Society*, 142(1):51-62. 2015 doi: <http://dx.doi.org/10.3159/TORREY-D-14-00004.1>  
**Times Cited (ISI/Google Scholar): 11:15; ISI Impact Factor: 2021: 0.5, 5 year: 0.6; H-Index 47; Role:** Supervised lead student author, performed analyses, co-wrote manuscript.
32. Friesen ML\*, **von Wettberg EJ\***, Badri M\*, Moriuchi KS, Barhoumi F, Cuellar-Ortiz S, Chang PL, Cordeiro MA, Vu WT, Arrouadi S, Djebali N, Zribi K, Badri Y, Porter SS, Aouani ME, Cook DR, Strauss SY, Nuzhdin SV. 2014 The ecological basis of salinity adaptation in Tunisian *Medicago truncatula*. *BMC Genomics*. 15: 1160.  
\*denotes equal co-first authorship  
**Times Cited (ISI/Google Scholar): 25:47; ISI Impact Factor: 2021: 4.6, 5 year: 4.9; H-Index: 177; Role:** Co-wrote supporting grant, performed field work and analyses, co-wrote manuscript.
31. Warschefsky, EJ<sup>1</sup>, Penmetsa RV, Cook DR, and **von Wettberg EJ**<sup>3</sup> 2014 Back to the wilds: tapping evolutionary adaptations for resilient crops through systematic hybridization with crop wild relatives, *American Journal of Botany*, 101:1791-1800  
**Times Cited (ISI/Google Scholar): 133:218; ISI Impact Factor: 2021: 3.3, 5 year: 4.0; H-Index: 159; Role:** Co-wrote supporting grant, proposed review, co-wrote manuscript.
30. Roorkiwal M<sup>2</sup>, **von Wettberg EJ**, Upadhyaya HD, Warschefsky EJ<sup>1</sup>, Rathore A, Varshney RV. 2014 Exploring germplasm diversity to understand the domestication process in *Cicer* spp. using SNP and DArT markers. *PlosOne* 9(7): e102016. Doi:10.1371/journal.pone.102016.  
**Times Cited (ISI/Google Scholar): 26:51; ISI Impact Factor: 2021: 3.8; 5 year: 4.1; H-Index: 367; Role:** Contributed analyses, mentored international collaborator, co-wrote manuscript.
29. Cordeiro MA<sup>2</sup>, Moriuchi KS<sup>2</sup>, Fotinos TD<sup>1</sup>, Miller KE<sup>5</sup>, Nuzhdin SV, **von Wettberg EJ**, Cook, DR. 2014 Germination and early seedling root growth reveal patterns for salinity adaptation in the annual legume *Medicago truncatula*. *American Journal of Botany* 101: 488-498  
**Times Cited (ISI/Google Scholar): 12:25; ISI Impact Factor: 2021: 3.3, 5 year: 4.0; H-Index: 159; Role:** Co-wrote supporting grant, performed field work and analyses, supervised students and mentees, extensively revised manuscript.
28. Oleas, NH<sup>2</sup>, **von Wettberg EJ**, Negron-Ortiz V. 2014 Population Genetics of the Federally Threatened Miccosukee Gooseberry (*Ribes echinellum*), an endemic North American species. *Conservation Genetics* 15:749-755  
**Times Cited (ISI/Google Scholar): 11:13; ISI Impact Factor: 2021: 3.1, 5 year: 2.8; H-Index: 74; Role:** Wrote supporting grant, contributed analyses, supervised postdoctoral scholar, co-wrote manuscript.
27. Saxena RK<sup>2</sup>, **von Wettberg EJ**, Upadhyaya HD, Sanchez V<sup>1</sup>, Songok S, Saxena KB, Kimerto P, Varshney RK. 2014 Genetic diversity and demographic history of *Cajanus* spp. illustrated from genome-wide SNPs. *PlosOne*, DOI: 10.1371/journal.pone.0088568

**Times Cited (ISI/Google Scholar): 34:71; ISI Impact Factor: 2021: 3.8; 5 year: 4.1; H-Index: 367; Role:** Contributed analyses, mentored international collaborator, co-wrote manuscript.

26. Huber H, de Brouwer J, **von Wettberg, EJ**, During HJ, Anten NPR. 2013. More cells, bigger cells or simply reorganization? Alternative mechanisms leading to changed internode architecture under contrasting stress regimes. *New Phytologist* 201: 193-204

**Times Cited (ISI/Google Scholar): 19:22; ISI Impact Factor: 10.3, 5 year: 10.8; H-Index: 263; Role:** Contributed analyses, co-wrote manuscript.

25. Castro BM<sup>5</sup>, Moriuchi KS<sup>2</sup>, Friesen ML, Badri M, Nuzhdin SV, Strauss SY, Cook DR, **von Wettberg EJ**<sup>3</sup>. 2013. Parental environments and interactions with conspecifics alter salinity tolerance of offspring in the annual *Medicago truncatula*. *Journal of Ecology* 101: 1281–1287

**Times Cited (ISI/Google Scholar): 15:23; ISI Impact Factor: 2021: 6.4; 5 year: 7.2; H-Index: 194; Role:** Co-wrote supporting grant, performed analyses, co-supervised undergraduate and technician scholars, co-wrote manuscript.

**Published Prior to Third Year Review at FIU:**

24. Kassa MT<sup>2</sup>, Penmetsa, R.V, Carrasquilla-Garcia N, Sarma BK, Datta S, Upadhyaya HD, Varshney RK. **von Wettberg EJ**, and Cook DR. 2012. Genetic patterns of domestication in pigeonpea (*Cajanus cajan* (L.) Millsp) and wild *Cajanus* relatives. *PlosOne*, 7(6): e39563. doi:10.1371/journal.pone.0039563

**Times Cited (ISI/Google Scholar): 62:113; ISI Impact Factor: 2021: 3.8; 5 year: 4.1; H-Index: 367; Role:** Contributed analyses, mentored international collaborator, co-wrote manuscript.

23. **von Wettberg EJ**, Stinchcombe JR, and Schmitt J. 2012. Early developmental responses modulate later plasticity to phytochrome-mediated cues. *PlosOne*. 7(3): e34121. doi:10.1371/journal.pone.0034121.

**Times Cited (ISI/Google Scholar): 6:7; ISI Impact Factor: 2021: 3.8; 5 year: 4.1; H-Index: 367; Role:** Wrote supporting grant, performed collection, experiments, and analysis, wrote paper.

22. Huber H, **von Wettberg EJ**, Aguilera A., and Schmitt J. 2011. Testing mechanisms and context dependence of costs of plastic shade avoidance responses in *Impatiens capensis* (Balsaminaceae). *American Journal of Botany*. 98: 1602-1612

**Times Cited (ISI/Google Scholar): 5:8; ISI Impact Factor: 2021: 3.3, 5 year: 4.0; H-Index: 159; Role:** Co-performed experiment, co-wrote paper.

21. Friesen ML, Porter SS, Stark SC, **von Wettberg EJ**, Sachs J, and Martinez-Romero, E. 2011. Microbially mediated functional plant traits. *Annual Review of Ecology Evolution and Systematics*. 42: 23-46

**Times Cited (ISI/Google Scholar): 297:446; ISI Impact Factor: 2021: 14.3; 5 year: 20.6; H-Index: 223; Role:** Wrote sections of the review, co-created themes.

20. Maschinski J, Ross M, Lui H, O'Brian J, **von Wettberg EJ**, and Haskins K. 2011. Sinking ships: conservation options for endemic taxa threatened by sea level rise. *Climatic Change*. 107: 147-167.

**Times Cited (ISI/Google Scholar): 41:62; ISI Impact Factor: 2021: 5.2; 5 year: 6.1; H-Index: 198; Role:** Wrote sections of the review, co-created paper topic.

19. Mandle LM<sup>5</sup>, Warren DL, Peterson AT, Hoffman M, Schmitt J, and **von Wettberg EJ**<sup>3</sup>. 2010. Niche expansion in introduced *Impatiens walleriana* populations (or not) depending on method of analysis. *PlosOne* 5(12): e15297. doi:10.1371/journal.pone.0015297.

**Times Cited (ISI/Google Scholar): 57:77; ISI Impact Factor: 2021: 3.8; 5 year: 4.1; H-Index: 367; Role:** Supervised lead undergraduate student and analyses, co-wrote paper.

18. Namoff S<sup>2</sup>, Veloz A, Jimenez F, Rodriguez R, Peguero B, Lewis C, Moynihan J, Abdo M, **von Wettberg EJ**, Maunder M, Griffith P, Meerow A, and Francisco-Ortega, J. 2010. Sweet drinks are made of this: conservation genetics of an endemic palm species from the Dominican Republic. *Journal of Heredity*. 102: 1-10

**Times Cited (ISI/Google Scholar): 16:23; ISI Impact Factor: 2021: 2.7, 5 year: 3.2; H-Index: 96; Role:** Co-supervised lead technician, advised on analyses, revised manuscript.

17. Holdredge C<sup>5</sup>, **von Wettberg EJ**, Bertness MB, Silliman BR. 2010. Differential nutrient uptake abilities underlie cryptic Phragmites invasion in New England salt marshes. *Oikos*. 119: 1776-1784.

**Cited (ISI/Google Scholar): 58:76; ISI Impact Factor: 2021: 4.3, 5 year: 4.0; H-Index: 188; Role:** Co-supervised undergraduate, co-performed fieldwork and analyses, revised manuscript.

16. **von Wettberg EJ**, Stanton ML, and Whittall JB. 2010. How anthocyanin mutants respond to stress: The need to distinguish between stress tolerance and maximal vigor. *Evolutionary Ecology Research*. 12: 457-47

**Times Cited (ISI/Google Scholar): 14:20; ISI Impact Factor: 2021: 1.0, 5 year: 1.1; H-Index: 75; Role:** Wrote supporting grant, performed research and analyses, wrote paper.

15. Turner TL, Bourne EC, **von Wettberg EJ**, Hu TL, and Nuzhdin SV. 2010. Population resequencing reveals local adaptation of *Arabidopsis lyrata* to serpentine soils. *Nature Genetics*. 42: 260-263

**Times Cited (ISI/Google Scholar): 331:472; ISI Impact Factor: 2021 year: 41.4, 5 year: 39.3; H-Index: 597; Role:** Co-wrote supporting grants, collected samples, co-wrote paper.

14. Friesen ML, and **von Wettberg EJ** 2010 Adapting genomics to study the ecology and evolution of agricultural systems. *Current Opinion in Plant Biology*. 13: 119-125

**Times Cited (ISI/Google Scholar): 13:19; ISI Impact Factor: 2021: 9.4, 5 year: 9.7; H-Index: 213; Role:** Co-wrote paper.

**Published Prior to Beginning First Faculty Position:**

13. Wright J, and **von Wettberg EJ**. 2009 Serpentinomics – an emerging field of study. *Northeastern Naturalist*. 16 (Special Issue 5): 285-296

**Times Cited (ISI/Google Scholar): 6:10; ISI Impact Factor: 2021: 0.5, 5 year: 0.8; H-Index: 32; Role:** Co-wrote paper.

12. Anten NPR, **von Wettberg EJ**, Pawlowski M, and Huber, H. 2009 Interactive effects of spectral shading and mechanical stress on the expression and costs of shade avoidance. *American Naturalist*, 173:241-255.

**Times Cited (ISI/Google Scholar): 41:50; ISI Impact Factor: 2021: 4.4, 5 year: 4.3; H-Index: 215; Role:** Co-wrote supporting grants, collected samples, contributed analyses, revised manuscript.

11. Turner TL, **von Wettberg EJ**, Nuzhdin SV. 2008 Genomic analysis of differentiation between soil types reveals candidate genes for local adaptation in *Arabidopsis lyrata*. *PlosOne* 3(9): e3183. doi:10.1371/journal.pone.0003183

**Times Cited (ISI/Google Scholar): 41:59; ISI Impact Factor: 2021: 3.8; 5 year: 4.1; H-Index: 367; Role:** Co-wrote supporting grants, collected samples, performed laboratory work, contributed analyses, co-wrote manuscript.

10. **von Wettberg EJ**. Remington DL. and Schmitt J. 2008. Partitioning adaptation differentiation across a patchy landscape: Shade avoidance traits in *Impatiens capensis*. *Evolution*, 62, 654–667.

**Times Cited (ISI/Google Scholar): 28:35; ISI Impact Factor: 2021: 4.2, 5 year:3.9; H-Index: 206; Role:** Co-wrote supporting grants, collected samples, performed laboratory work and analyses, wrote manuscript.

9. Tabak N, and **von Wettberg, EJ**, 2008. Native and introduced *Impatiens* of the Northeast: parallel introductions and global spread of temperate jewelweeds. *Northeastern Naturalist*, 15: 159-176.

**Times Cited (ISI/Google Scholar): 27:41; ISI Impact Factor: 2021: 0.5, 5 year: 0.8; H-Index: 32; Role:** Co-wrote manuscript.

8. **von Wettberg EJ**. and Schmitt, J. 2005. An experimental separation of stem and leaf shade avoidance responses in *Impatiens capensis*. *American Journal of Botany*, 92: 868-874.

**Times Cited (ISI/Google Scholar): 24:32; ISI Impact Factor: 2021: 3.3, 5 year: 4.0; H-Index: 159; Role:** Co-wrote supporting grants, collected samples, performed laboratory work and analyses, wrote manuscript.

7. **von Wettberg EJ**, Huber H. and Schmitt J. 2005. Interacting effects of microsite quality, plasticity, and dispersal distance from the parental site on fitness in a natural population of *Impatiens capensis*. *Evolutionary Ecology Research*. 7: 531-548

**Times Cited (ISI/Google Scholar): 10:10; ISI Impact Factor: 2021: 1.0, 5 year: 1.1; H-Index: 75; Role:** Performed analysis, wrote manuscript.

6. Gravuer K, **von Wettberg EJ**, and Schmitt, J. 2005. Population differentiation and genetic variation inform translocation decisions for *Liatris scariosa* var. *novae-angliae*, a rare New England grassland perennial. *Biological Conservation*, 124: 155-167.

**Times Cited (ISI/Google Scholar): 19:28; ISI Impact Factor: 2021: 7.5; 5 year: 7.4; H-Index: 213; Role:** Co-wrote supporting grants, co-collected samples, contributed laboratory work and analyses, co-wrote manuscript.

5. von Wettberg EJ. and Weiner J. 2004. Effects of distance to crop rows and to conspecific neighbours on the size of *Brassica napus* and *Veronica persica* weeds. *Basic and Applied Ecology*, 5: 34-41.

**Times Cited (ISI/Google Scholar): 3:11; ISI Impact Factor: 2019: 3.7, 5 year: 3.9; H-Index: 84; Role:** Wrote supporting grant, performed field experiment and analysis, wrote manuscript.

4. Huber H, Kane N, Heschel MS, von Wettberg EJ, Banta J, Leuck A, and Schmitt J. 2004. Frequency and microenvironmental pattern of selection on plastic shade avoidance traits in a natural population of *Impatiens capensis*. *American Naturalist*, 163: 548-563.

**Times Cited (ISI/Google Scholar): 86:115; ISI Impact Factor: 2021: 4.4, 5 year: 4.3; H-Index: 215; Role:** Contributed analysis, wrote and revised sections of manuscript.

3. Gravuer K, von Wettberg EJ, and Schmitt J. 2003. Dispersal biology of *Liatris scariosa* var. *novae-angliae* (Asteraceae), a rare New England grassland perennial. *American Journal of Botany*. 90: 1159-1167.

**Times Cited (ISI/Google Scholar): 27:38; ISI Impact Factor: 2021: 3.3, 5 year: 4.0; H-Index: 159; Role:** Co-wrote supporting grants, co-collected samples, contributed laboratory work and analyses, co-wrote manuscript.

2. von Wettberg EJ, and Weiner J. 2003. Nutrient heterogeneity does not make belowground competition size-asymmetric in glasshouse populations of *Triticum aestivum*. *Plant Ecology*. 169: 85-92.

**Times Cited (ISI/Google Scholar): 19:30; ISI Impact Factor: 2021: 2.0, 5 year: 2.4; H-Index: 109; Role:** Wrote supporting grant, performed field experiment and analysis, wrote manuscript.

1. Richards MH, von Wettberg EJ, and Rutgers A. 2003. A novel social polymorphism in a primitively eusocial Hymenopteran. *Proceedings of the National Academy of Science USA*, 100: 7175-7180.

**Times Cited (ISI/Google Scholar): 42:68; ISI Impact Factor: 2021: 12.8, 5 year: 13.5; H-Index: 805; Role:** Co-wrote supporting grant, performed field work, revised manuscript.

### **Chapters in Books (Peer Reviewed)**

12. Laverick M, von Wettberg EJ, 2024 An ethnobotanical review of tuberous legumes as viable crops in Vermont. Invited chapter in *Crop Wild Relatives for Legumes crops*. Eds. U. Jha, Sharma K, Nayyer H, von Wettberg EJ and KHM Siddique. CRC Press. *Invited submission*, <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003434535-9/ethnobotanical-review-tuberous-legumes-mackenzie-laverick-eric-bishop-von-wettberg>

**Times Cited (ISI/Google Scholar): -:0; Role:** Supervised mentee, conceived project, obtained funding, revised sections.

11. **von Wettberg EJ**, Brefo E, Hart J, Kretzler B, Sassi G.. Disease issues for grain legumes in Northeastern North America. 2023 Invited chapter in *Next Generation Breeding approaches for designing disease resistant legumes crops*. Eds. U. Jha, Sharma K, Nayyar H, **von Wettberg EJ** and KHM Siddique. Spring Publishing, Singapore. *Invited submission*

**Times Cited (ISI/Google Scholar): -:0; Role:** Conceived project, obtained funding support, wrote sections of paper, supervised mentees.

10. Khan MK, Pandey A, Athar T, Hamurcu M, Gezgin S, Sassi G<sup>2</sup>, Kahraman. A, **von Wettberg EJ**. 2022. Current trends in genetic enhancement of legumes in the genomics era for a sustainable future. In: *Advances in Legumes for Sustainable Intensification*. Academic Press, Elsevier. p533-552. <https://www.sciencedirect.com/science/article/pii/B9780323857970000276>

**Times Cited (ISI/Google Scholar): -:0; Role:** Wrote sections of paper, supervised mentees.

9. Jha UC, Nayyar H, Jha R, Singh PK, Dixit GP, Kumar Y, Mondal BK, Srivastava AK, **von Wettberg EJ**, Paul PJ, Lone AA, Srinivasan Samineni, Tripathi SK. Siddique HMK. 2022. Improving Chickpea Genetic Gain Under Rising Drought and Heat Stress Using Breeding Approaches and Modern Technologies. Chapter in *Developing Climate-resilient Food and Fodder Legumes*, Springer Press. [https://link.springer.com/chapter/10.1007/978-981-16-9848-4\\_1](https://link.springer.com/chapter/10.1007/978-981-16-9848-4_1)

**Times Cited (ISI/Google Scholar): -:0; Role:** Wrote sections of chapter

8. Narayana PK<sup>1</sup>, Bueno E, Baur A, Kemal, S, **von Wettberg EJ**<sup>3</sup>. Fenugreek, a legume spice and multi-use crop. 2022. Chapter in *Developing Climate-resilient Food and Fodder Legumes*, Springer Press. [https://link.springer.com/chapter/10.1007/978-981-16-9848-4\\_5](https://link.springer.com/chapter/10.1007/978-981-16-9848-4_5)

**Times Cited (ISI/Google Scholar): 0:0; Role:** Wrote majority of chapter, supervised students and mentees.

7. Trubek A, **von Wettberg EJ**, Moore M<sup>2</sup>. 2021. A 21<sup>st</sup> century spice: A journey to Madagascar and the promise and peril of the wild Tsiperifery pepper. *Oxford Symposium on Food and Cookery*. <https://www.oxfordsymposium.org.uk/2020-herbs-and-spices/>

**Times Cited (ISI/Google Scholar): 0:0; Role:** Co-wrote supporting travel grant, wrote sections of paper, and revised manuscript.

6. **von Wettberg EJ**<sup>3</sup>, Toker C, Özkan H, Smýkal P. 2021. Endangered Wild Crop Relatives of the Fertile Crescent. In: *Imperiled, The Encyclopedia of Conservation*, eds: DellaSala D., Goldstein M. Elsevier. <https://www.elsevier.com/books/imperiled-the-encyclopedia-of-conservation/dellasala/978-0-12-821139-7>

**Times Cited (ISI/Google Scholar): 0:0; Role:** Wrote sections of chapter, edited whole chapter.

5. Narayana PK<sup>1</sup>, **von Wettberg EJ**<sup>3</sup> 2020. GWAS and Genomic Approaches in Legumes, an Expanding Toolkit for Examining Responses to Abiotic Stresses. In: Hasanuzzaman M., Araújo S., Gill S. (eds) *The Plant Family Fabaceae*. Springer, Singapore. [https://doi.org/10.1007/978-981-15-4752-2\\_6](https://doi.org/10.1007/978-981-15-4752-2_6)

**Times Cited (ISI/Google Scholar): 0:0; Role:** Wrote sections of chapter, supervised student and mentee.

4. **von Wettberg EJ<sup>3</sup>**, Porter SS, Moriuchi KS<sup>2</sup>, Mukherjee JR. 2020 Medicago as a model forage and ecological model. Chapter 2 In *The Model Legume Medicago truncatula*, (ed. de Bruijn, FJ). Wiley Publishers, NJ USA.

**Times Cited (ISI/Google Scholar): 0:4; Role:** Wrote majority of chapter, supervised students and mentees.

3. Krieg CP<sup>2</sup>, Kassa MT<sup>2</sup>, **von Wettberg EJB<sup>3</sup>**. 2017 Germplasm Characterization and Trait Discovery. Chapter 7. In: Varshney R., Saxena R., Jackson S. (eds) *The Pigeonpea Genome. Compendium of Plant Genomes*. Springer, Cham. [https://doi.org/10.1007/978-3-319-63797-6\\_7](https://doi.org/10.1007/978-3-319-63797-6_7).

**Times Cited (ISI/Google Scholar): 3:4; Role:** Supervised technician and international mentee, co-wrote chapter.

2. **von Wettberg EJ<sup>3</sup>**, Ray-Mukherjee J<sup>2</sup>, D'Adesky N<sup>5</sup>, Nesbeth D<sup>1</sup>, Sistla S. 2014. The evolutionary ecology and genetics SRS traits: revisiting Chapin, Autumn, and Pugnaire 1993. 2014. Chapter 9 In *Plant Ecology and Evolution in Harsh Environments* (Rajakaruna N, Boyd RS, and Harris TB eds), Nova Publishers.

**Times Cited (ISI/Google Scholar): -:13; Role:** Supervised student and postdoctoral scholars, wrote majority of chapter.

1. **von Wettberg EJ<sup>3</sup>**, and Wright J. 2011. Genomic approaches to understanding adaptation. In *Serpentine: a model for Evolution and Ecology*. Rajakaruna, N., and Harrison, S.P. (Eds). University of California Press.

**Times Cited (ISI/Google Scholar): 9:12; Role:** Co-wrote chapter.

**Mini-Reviews, Book Reviews, Published Manuscript Commentaries, Methods papers (Peer Reviewed by at least one peer reviewer or editor)**

27. Haggerty K, **von Wettberg EJ**. Kernza: An Ecological Grain Crop. *Maine Organic Farming and Gardening Association Member magazine. Summer 2024*. <https://www.mofga.org/resources/grain/kernza-perennial-wheat/>

26. Sidiqi J, **von Wettberg EJ**, Hoyas-Villegos V. 2024. The Potential of Chickpea in the Northeast. *Maine Organic Farming and Gardening Association Member magazine. Winter 2023-2024*. <https://www.mofga.org/resources/organic-farming/chickpea-production-in-the-northeast/>

25. Osorio, E, Fisher B, Foster M, Voigt B, and **von Wettberg EJ**. 2023 Alternative Ground Covers and Strip-Tilling in CBD Hemp Production, *BMC Research Notes*. <https://doi.org/10.21203/rs.3.rs-3022458/v1>

**Role:** Wrote supporting grants, supervised mentees, performed analyses, wrote manuscript sections

24. Jimenez-Lopez JC, Singh KB, Clemente A, Czubinski J, Ochatt SJ, **von Wettberg EJ**, Smýkal P. 2023. Editorial: Legumes for Global Food Security Volume II. *Frontiers in Plant Sci. Sec. Plant Breeding*. [doi: 10.3389/fpls.2023.1273600](https://doi.org/10.3389/fpls.2023.1273600)

23. Brefo E, Heleba D, and **von Wettberg EJ**. 2023. The green peas of spring: Overwintering snap peas as a cover crop and early season vegetable. *Maine Organic Farming and Gardening Association Member magazine*. Summer 2023.  
<https://www.mofga.org/resources/peas/overwintering-peas/>
22. Smýkal P, **von Wettberg EJ**. 2022. Editorial: A Commemorative Issue in Honor of 200th Anniversary of the Birth of Gregor Johann Mendel: The Genius of Genetics. *International Journal of Molecular Science (MDPI)*. <https://www.mdpi.com/1422-0067/24/14/11718>
21. **von Wettberg EJ**, Guerra-Garcia A. 2023. The faba of all genomes. *Nature*.  
<https://doi.org/10.1038/d41586-023-00461-y>
20. Jimenez-Lopez JC, Clemente A, Ochatt SJ, Patto MCV, **von Wettberg EJ**, Smýkal P. 2022. Editorial: Biological and genetic basis of agronomical and seed quality traits in legumes. *Frontiers in Plant Sci. Sec. Plant Breeding* doi: 10.3389/fpls.2022.1009980
19. **von Wettberg EJ**<sup>3</sup> and Khoury C. 2021. Editorial: Biodiversity data: The importance of access and the challenges regarding benefit sharing. *Plants People, Planet*. 4: 2-4.  
**Times Cited (ISI/Google Scholar): 0:1; ISI Impact Factor: 2021: 5.7; 5 year: 5.7; H-Index: 14; Role:** co-wrote editorial, co-edited associated special issue.
18. Sokolkova AB, Bulyntsev SV, Chang PL, Carrasquilla-Garcia N, Cook DR, E. **von Wettberg EJ**, Vishnyakova MA, Nuzhdin SV Samsonova MG. 2021. The search for agroislands in the chickpea genome. *Biophysics* 66:395–400  
**Times Cited (ISI/Google Scholar): -:1; ISI Impact Factor: NA; H-Index: 18; Role:** co-wrote supporting grant, wrote sections of review, editing.
17. Ageev, AY, **von Wettberg EJ**, Nuzhdin SV, Samsonova MG, Kozlov KA. Forecasting the Timing of Floral Initiation in Wild Chickpeas under Climate Change. *Biophysics* 66, 107–116 (2021). <https://doi.org/10.1134/S0006350921010152>  
**Times Cited (ISI/Google Scholar): -:2; ISI Impact Factor: NA; H-Index: 18; Role:** co-wrote supporting grant, wrote sections of review, editing.
16. Sokolkova, A.B., Bulyntsev, S.V., Chang PL. Carrasquilla-Garcia N, Cook DR, **von Wettberg EJ**, Vishnyakova, MA, Nuzhdin SV, Samsonova MG. A Genomic Analysis of Historic Chickpea Landraces. *Biophysics* 66, 32–39 (2021).  
<https://doi.org/10.1134/S0006350921010061>  
**Times Cited (ISI/Google Scholar): -:1; ISI Impact Factor: NA; H-Index: 18; Role:** co-wrote supporting grant, wrote sections of review, editing.
15. Stai JS, **von Wettberg EJ**, Smýkal P, Cannon SB. 2021. Which came first: the tuber or the vine? A taxonomic overview of underground storage in legumes. *Legume Perspectives*. 19: 5-7  
**Times Cited (ISI/Google Scholar): 0:0; Society journal, not in ISI; Role:** co-wrote manuscript.
14. **von Wettberg EJ**<sup>3</sup>, Naito K, Kur A<sup>1</sup>, Ludidi N. 2021. The unusual biogeography of zombi pea, *Vigna vexillata*. *Legume Perspectives*. 19: 8-1

**Times Cited (ISI/Google Scholar): 0:0;** Society journal, not in ISI; **Role:** Co-wrote manuscript, supervised student co-author.

13. **von Wettberg EJ**, Davis T. and Smýkal P. 2020. Editorial: Wild Plants as a source of new crops. *Frontiers in Plant Science*. 11: 591554.

**Times Cited (ISI/Google Scholar): 11:12; ISI Impact Factor: 2021: 6.6; 5 year: 7.3; H-Index: 101; Role:** Co-wrote manuscript, co-edited associated special issue.

12. **von Wettberg EJ**<sup>3</sup> and Khoury C. 2020. Special Issue Feature: Access and Benefit Sharing and the governance of plant genomic and phenomic data: Background and Perspectives. *Plants People, Planet*. <https://doi.org/10.1002/ppp3.10105>

**Times Cited (ISI/Google Scholar): 3:4; ISI Impact Factor: 2021: 5.7; 5 year: 5.7; H-Index: 14; Role:** co-wrote manuscript, co-edited associated special issue.

11. Smýkal P, McPhee K, and **von Wettberg EJ**. 2020 Legume Genetics and Biology: From Mendel's Pea to Legume Genomics. 2020 *MDPI International Journal of Molecular Science*. <https://www.mdpi.com/1422-0067/21/9/3336>

**Times Cited (ISI/Google Scholar): 2:6; ISI Impact Factor: 2021: 6.2; 5 Year: 6.6; H-Index: 195; Role:** Co-wrote manuscript, co-edited associated special issue.

10. Bueno E<sup>2</sup>, Kisha T, Maki S, **von Wettberg EJ**<sup>3</sup>, Singer SR. 2019 Genetic diversity of the USDA *Chamaecrista fasciculata* germplasm collection., *BMC Research Notes*, 12:117 <https://doi.org/10.1186/s13104-019-4152-0>.

**Times Cited (ISI/Google Scholar): 2:2; ISI Impact Factor: 2021: 1.66, 5 year: NA ; H-Index: 79; Role:** Co-wrote supporting grant, supervised graduate students, revised manuscript.

9. Smýkal P, Nelson M, Berger J, **von Wettberg EJ**. 2018. Editorial: The Impact of Genetic Changes during Crop Domestication on Healthy Food Development. *MDPI Agronomy*. <http://www.mdpi.com/2073-4395/8/3/26/>

**Times Cited (ISI/Google Scholar): 29:-; ISI Impact Factor: 2021: 3.9, 5 year: 4.1 ; H-Index: 50; Role:** Wrote section of manuscript, contributed to theme.

8. Scharnagl K<sup>1</sup>, Sanchez V<sup>1</sup>, **von Wettberg EJ**<sup>3</sup>. 2018. The Impact of Soil Salinization on Arbuscular Mycorrhizal Colonization of the South Florida Legume *Galactia smallii*. *BMC Research Notes*, 11:2, <https://doi.org/10.1186/s13104-017-3105-8>.

**Times Cited (ISI/Google Scholar): -:5; ISI Impact Factor: 2021: 1.66, 5 year: NA ; H-Index: 79; Role:** Co-wrote supporting grant, supervised graduate students, revised manuscript.

7. **von Wettberg, EJ**<sup>3</sup>., Marques E<sup>1</sup>. and Murren CJ. 2016 Local adaptation or foreign advantage? Effective use of a single-test site common garden to evaluate adaptation across ecological scales. *New Phytologist*, 211: 8–10. doi:10.1111/nph.14029

**Times Cited (ISI/Google Scholar): 3:4; ISI Impact Factor: 2021: 10.3, 5 year: 10.8; H-Index: 263; Role:** Wrote majority of the perspective.

6. Fotinos TD<sup>1</sup>, Clase T Veloz A, Jimenez F, Griffith MP, **von Wettberg EJ**<sup>3</sup>. 2016 A minimally invasive, automated procedure for DNA extraction from epidermal peels of succulent cacti (Cactaceae). *Haseltonia*, 22:46-47

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 1.6; 5 year: 1.0; H-Index: 12; Role:** Supervised lead student, co-wrote manuscript.

5. Kassa MT<sup>2</sup>, van der Maesen LGT, Krieg C<sup>2</sup>, **von Wettberg EJ**<sup>3</sup>. 2016 Pigeonpea in historical and phylogenetic perspectives. *Legume Perspectives*, 11: 36-38

**Times Cited (ISI/Google Scholar): -:0; Journal of International Legume Society, not in ISI; Role:** Co-wrote review, supervised technician and international mentee.

4. Toker C, Berger J, Kahraman A, Aydogan A, Can C, Bukun B, Penmetsa RV, **von Wettberg EJ**, Cook DR. 2014 *Cicer reticulatum* Ladizinsky, progenitor of the cultivated chickpea (*C. arietinum* L.). *Legume Perspectives*, Issue 5, p26-27

**Times Cited (ISI/Google Scholar): -:11; Journal of International Legume Society, not in ISI; Role:** Co-wrote and revised manuscript.

3. **von Wettberg EJ**<sup>3</sup>, Vance W, and Rowland, D. News and Views: The Park Grass Experiment and Next Generation Approaches: Local adaptation of Sweet Vernal Grass revisited. 2014 *Molecular Ecology*, 23, 5931-5933. DOI: 10.1111/mec.13007

**Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 6.6, 5 year: 6.9; H-Index: 235; Role:** Wrote majority of opinion, coordinated co-author contributions.

2. Mukherjee J<sup>2</sup>, and **von Wettberg EJ**<sup>3</sup>, 2011. The broad spectrum of molecular approaches in conservation and management. *Ecology*, 92: 1377-1382.

**Times Cited (ISI/Google Scholar): 0:0; ISI Impact Factor: 2021: 6.4, 5 year: 6.3; H-Index: 308; Role:** Supervised postdoctoral scholar, co-wrote review.

1. Lee D. and **von Wettberg EJ**, 2010 Using bottles to study shade responses of seedlings and other plants. *Plant Science Bulletin*. 56:23-29.

**Times Cited (ISI/Google Scholar): 0:0; Bulletin of Botanical Society of America, not in ISI/Schicago. Role:** Co-wrote paper.

### **Edited Books**

4.. U. Jha, Sharma K, Nayyer H, **von Wettberg EJ** and KHM Siddique. 2023. Diseases in Legume Crops: Next Generation Breeding Approaches for Resistant Legume Crops. Springer. 1<sup>st</sup> Edition. 337pp. <https://link.springer.com/book/10.1007/978-981-99-3358-7>

3. Jimenez-Lopez JC, Singh KB, Clemente A, Czubinski J, Ochatt SJ, **von Wettberg EJ**, Smýkal P. Legumes for Global Food Security Volume II. *Frontiers in Plant Sci. Sec. Plant Breeding*. <https://www.frontiersin.org/research-topics/21078/legumes-for-global-food-security---volume-ii>. A book form of a special issue from *Frontiers in Plant Science* on legume biology.

2. Jimenez-Lopez JC, Clemente A, Ochatt SJ, Patto MCV, **von Wettberg EJ**, Smýkal P. 2022. Biological and genetic basis of agronomical and seed quality traits in legumes.

<https://www.frontiersin.org/research-topics/15314/biological-and-genetic-basis-of-agronomical-and-seed-quality-traits-in-legumes>. A book form of a special issue from *Frontiers in Plant Science* on legume biology.

1. Smýkal, P., Von Wettberg, E. and Davis, T.M. eds., 2020. *Wild Plants as Source of New Crops*. Frontiers Media SA. <https://www.frontiersin.org/research-topics/9979/wild-plants-as-source-of-new-crops>. A book form of a special issue from *Frontiers in Plant Science* on Neodomestication

### **Government Reports (Agency Reviewed)**

**von Wettberg EJ<sup>3</sup>**, Sadle J. 2016. Conservation Genetics of South Florida *Tephrosia* taxa. Everglades National Park

**von Wettberg EJ<sup>3</sup>**, Warschefsky EJ<sup>1</sup>, Reynaldo Y<sup>2</sup>, Chang P, and Negron-Ortiz V. 2015. Conservation genetics of Harper's Beauty, *Harperocallis flava*.

Maschinski, J., D. Powell, **von Wettberg EJ**, and T. Fotinos. 2012. Genetic Analysis, Monitoring, Propagation, and Reintroduction of the Endangered Key Tree Cactus (*Pilosocereus robinii*). Final Report to FDACS, Florida Forest Service, Contract #017950, Tallahassee, FL.

### **IUCN Guidance Documents (White papers and briefs, reviewed by IUCN)**

IUCN Issues Brief, with the Conservation Genetics Working Group: "Considering Hybrids in Biodiversity Conservation" – contributor to section on hybrid benefits, and background review manuscript. *In review*.

IUCN Conservation Genetics Working Group, "Biobanking Guidelines" – contributor to crop seed and Nagoya Protocol Sections. *In review*.

### **Regional White Papers (Editorially reviewed)**

Peters C., Barley L, von Wettberg EJ, Borges-Mendez R, Donohue B, McCarthy A, Schumann S, Stoll J, Kahler E. 2023. New England Feeding New England Volume 2: ESTIMATING PRODUCTION FOR 30% REGIONAL SELF-RELIANCE. [https://nefoodsystemplanners.org/wp-content/uploads/NEFNE\\_Executive-Summary.pdf](https://nefoodsystemplanners.org/wp-content/uploads/NEFNE_Executive-Summary.pdf)

### **University White Papers (no formal peer-reviewed)**

Burke S, Fischer C, Isbell C, Anderson K, Bowlding K, Robinson Banks C, Yamashita A, Adeeb B, **von Wettberg EJ**, Tobin D. Market opportunities for culturally meaningful seed and food. Stakeholder summary report. <https://scholarworks.uvm.edu/calsfac/206/>

Brooks A, Isbell C, Tobin D, Reynolds T, **von Wettberg EJ**, Conner D, and Wolfe E. 2022. Seeds of Resilience: Learning from COVID-19 to strengthen seed systems in Vermont. <https://scholarworks.uvm.edu/calsfac/190/>

Neher D, Baddireddy A, Darby H, Farley J, Faulkner J, Harris J, Horner K, Roy E, Scarsborough M, **von Wettberg EJ**, White A. 2020. Metrics for Soil Health. UVM ARS Food Systems Metrics Project. <https://scholarworks.uvm.edu/arsfoodsystems/7/>

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