

## **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**

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 Nacional Superieure 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 Ambassorial Scholar, Denmark

### **C. Research Areas**

Population genomics and domestication of legumes, symbiosis, abiotic stress tolerance, salinity tolerance, drought tolerance, conservation genetics, landscape genetics, symbiont and microbial mediation of plant traits, 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 NRCS Conservation Innovation Grant:** Managing Pasture for Healthy Farms and Soils  
Across Vermont. Co-PI with Nick Richardson, Vermont Land Trust.  
\$2,200,000/\$200,000

**Genome Canada:** Enhancing the Value of Lentil Variation for Ecosystem Survival. Genome  
Canada, NA Bett (PI) Vandenberg (co-PI), von Wettberg (role: senior personnel,  
international collaborator). \$7,000,000 (CND).

**USDA NIFA 2017-10585** Genetic biofortification of carotenoid content of grain legumes for  
novel market types as high-value fresh vegetables and in processed foods. Co-PI with  
RV Penmetza (UC Davis), \$200,000/\$47,178.

**USDA NIFA Hatch Funding:** Improving cover crops for Vermont, role PI (wrote proposal, lead  
project), \$65,000.

**USDA NIFA OREI:** Organic Seed Systems Planning meeting. Role: Co-PI with Dan Tobin,  
Travis Reynolds. \$50000.

**VT Agency of Agriculture Specialty Crop Grant:** A survey of heirloom and feral hops for  
resistance to fungal and insect pests, \$20,000, PI, with co-PI's H. Darby and S. Keller.

### **G. Selected Publications in Discipline (Past 4 years only)**

- 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

1. Delaney-Studer S, **von Wettberg EJ**, Towards the next angiosperm revolution: agroecological food production as a driver for biological diversity. *Elementa, special topic on “[New Pathways to Sustainability in Agroecological Systems](#)”* In Press

2. 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>.

3. 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>

4. 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>

5. 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*. *Accepted pending revisions, PNAS*.

6. 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*, in press.

7. 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>:

8. 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>

9. 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>

Citations: [1](#)

10. 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>
11. 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>
12. 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>
13. 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>
14. 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>
15. 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>.
16. Varshney RK\*, Roorkiwal M, Sun S, Bajaj P, Chitkineni 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>
17. 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)
18. 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

19. 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>

20. 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>

21. 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>

22. 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)

23. 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

24. 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>

25. 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>

26. 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>

27. 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>
28. 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
29. Marques E1, Kur A1, Bueno E2., and von Wettberg EJ3. 2020. Defining 'rotational value' of crops. *Crop Science*, DOI: 10.1002/csc2.20200
30. 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>
31. 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.
32. 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>
33. 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>
34. 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>
35. 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.

36. 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.

37. 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>

38. 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>

39. 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)

40. 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>

41. Osorio, E, Fisher B, Foster M, Voigt B, and **von Wettberg EJ**. Impacts of undersown clover on hemp yields. *In Press, BMC Research Notes*

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

42. Jimenez-Lopez JC, Singh KB. Clemente A, Czubinski J, Ochatt SJ, **von Wettberg EJ**, Smýkal P. 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)

43. Brefo E, Heleba D, and **von Wettberg EJ**. 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/>

44. Smýkal P, **von Wettberg EJ**. 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>

45. **von Wettberg EJ**, Guerra-Garcia A. The faba of all genomes. *Nature*. 8 March 2023 <https://doi.org/10.1038/d41586-023-00461-y>

46. 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
47. **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.
48. 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.
49. 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.
50. 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.
51. 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.
52. **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.
53. **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.
54. **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.

55. 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.

56. 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>.

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

1.. **von Wettberg EJ**, Brefo E, Hart J, Kretzler B. Disease issues for grain legumes in Northeastern North America. Invited chapter in *Next Generation Breeding approaches for designing disease resistant legumes crops*. Eds. U. Jha, Sharma K, Nayyer H, **von Wettberg EJ** and KHM Siddique. *Invited submission, In Press*.

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

2. Laverick M, **von Wettberg EJ**, 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. *Invited submission, In Press*.

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

3. Khan MK, Pandey A, Athar T, Hamurcu M, Gezgin S, Sassi G<sup>2</sup>, Kahraman. A, **von Wettberg EJ**. 2021. Current trends in genetic enhancement of legumes in the genomics era for a sustainable future. Forthcoming with Elsevier. Accepted pending revisions.

4. **von Wettberg EJ**. Toker C. Smykal P, and Ozkan H. 2021. Endangered crop wild relatives of the Fertile Crescent. Encyclopedia of Endangered Organisms. IUCN and Elsevier, In press.

5. Narayana PK<sup>1</sup>, Bueno E, Baur A, Kemal, S, **von Wettberg EJ**<sup>3</sup>. 2021 Fenugreek, a legume spice and multi-use crop. 2021. Chapter in *Developing Climate-resilient Food and Fodder Legumes*, Forthcoming with Elsevier. *Accepted pending revisions*.

6. Narayana PK<sup>1</sup> and **von Wettberg EJ**<sup>3</sup>. Genomics approaches to stress tolerance in legumes. Chapter 17 in *Abiotic stress tolerance in Legumes* (ed. Araujo S). *in press*.

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8. Krieg CP, Kassa MT<sup>2</sup>, **von Wettberg EJB**. 2017 Germplasm Characterization and Trait Discovery. 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).