Leo Zeitler

University of Bern
Institute of Plant Sciences
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Education

PhD Candidate Population Genomics 10/2020–current
Institute of Plant Sciences, University of Bern, Switzerland
Advisors: Dr. Kimberly Gilbert & Prof. Dr. Christian Parisod

M.Sc. Crop Sciences 09/2016–03/2019
University of Hohenheim, Stuttgart, Germany
Thesis: Loss of genetic diversity in doubled-haploid lines from European maize landraces
Advisors: Prof. Jeffrey Ross-Ibarra, Dr. Markus Stetter & Prof. Karl Schmid

B.Sc. Agricultural Sciences 04/2013–11/2016
University of Hohenheim, Stuttgart, Germany
Thesis: Sequence analysis of putative domestication genes in Amaranth
Advisors: Prof. Karl Schmid

High School/Abitur 2003–2011
Johannes Kepler Gymnasium, Stuttgart

Work Experience

Research internship 04/2019–10/2020
Bomblies Lab, Plant Evolutionary Genetics, Institute for Molecular Plant Biology, Department of Biology, ETH Zurich — Zurich, Switzerland

Research internship 04/2018–10/2018
Ross-Ibarra Lab, Department of Plant Sciences and Center for Population Biology, University of California Davis — Davis, CA, USA

Student assistant 09/2015–03/2018
Institute of Plant Breeding, Seed Science and Population Genetics, University of Hohenheim — Stuttgart, Germany

Internship – Plant Breeding 08/2017–10/2017
Betaseed Inc. (KWS) — Kimberly, ID, USA

Internship – Plant Breeding 06/2014–10/2014
PZO Oberlimpurg — Schwäbisch Hall, Germany

Publications

Published

3. Weitz, A.P., Dukic, M., **Zeitler, L.**, and Bomblies, K. (2021). Male meiotic recombination rate varies with seasonal temperature fluctuations in wild populations of autotetraploid Arabidopsis arenosa. Molecular Ecology 30, 46304641. DOI:10.1111/mec.16084
2. **Zeitler, L.**, Ross-Ibarra, J., and Stetter, M.G. (2020). Selective Loss of Diversity in Doubled-Haploid Lines from European Maize Landraces. G3: Genes, Genomes,

Genetics 10, 2497-2506. DOI:10.1534/g3.120.401196

1. Stetter, M.G., **Zeitler, L.**, Steinhaus, A., Kroener, K., Biljecki, M., and Schmid, K.J. (2016). Crossing Methods and Cultivation Conditions for Rapid Production of Segregating Populations in Three Grain Amaranth Species. Front. Plant Sci. 7. DOI:10.3389/fpls.2016.00816

Grants & Awards

- KWS Master Scholarship (2016-2018)
- Herzog Carl Scholarship (2018)
- Travel grant from Baden-Württembergische Ministerium für Wissenschaft, Forschung und Kunst (2018)
- 3rd Poster Prize at ELLS Student Conference, Wageningen, 2018
- Best student research group project of the Agricultural Faculty, 4. Humboldt reloaded-Jahrestagung, 2015

Interest & Skills

Genetics
population genetics (diversity, domestication, adaptation, genome dynamics), quantitative genetics (GWAS, mixed models)

Bioinformatics
Statistical analysis (R, SAS), python, population genetics and bioinformatics using R and command line tools (plink, vcftools, BLAST, beagle, GATK, samtools), simulations using SLiM, bash scripting, cluster computing (slurm, LSF), galaxy, LaTeX, emacs, MacOS, GNU/Linux

Wet-Lab
DNA extraction, plant cultivation

Languages

German · Mother tongue
English · Advanced

References

Prof. Jeffrey Ross-Ibarra · rossibarra@ucdavis.edu
Dr. Markus Stetter · m.stetter@uni-koeln.de
Prof. Kirsten Bomblies · kirsten.bomblies@biol.ethz.ch
Prof. Karl Schmid · karl.schmid@uni-hohenheim.de