Melis Akman

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EDUCATION

2012 Ph.D. in Biology, University of Amsterdam

Advisors: M Eric Schranz, Peter van Tienderen and Eric Visser

2007 M.Sc. in Biology, Middle East Technical University (METU)

Advisor: Zeki Kaya

2004 B.Sc. Biology Major and Chemistry Minor Programs, METU

PROFESSIONAL EXPERIENCE

2016- Postdoctoral researcher, Department of Plant and Microbial Biology, UCB

2012-2016 Postdoctoral researcher, Department of Plant Sciences, UC Davis 2004-2007 Researcher in R&D Department at Metis Biotechnology, Turkey

PUBLICATIONS

Prunier R, **Akman M**, Aitken NC, Chuah A, Borevitz JO, Holsinger KE, 2017. Detecting patterns of population differentiation and natural selection in the genome of *Protea repens* (Proteaceae L.) using GBS. American Journal of Botany, 104:674-684.

Akman M, Kleine R[†], van Tienderen PH, Schranz ME, 2017. Identification of the submergence tolerance QTL, *Come Quick Drowning 1 (CQD1)* in *Arabidopsis thaliana*. Journal of Heredity, 308-317. [†]mentored M.Sc. student

Akman M, Carlson JE, Holsinger KE, Latimer AM, 2016. Transcriptome sequencing reveals population differentiation in gene expression linked to functional traits and environmental gradients in South African shrub *Protea repens*. New Phytologist, 210: 295-309.

van Veen H^{*}, Vashisht D^{*}, **Akman M**^{*}, Girke T, Mustroph A, Reinen E, Hartman S, Kooiker M, van Tienderen PH, Schranz ME, Bailey-Serres J, Voesenek LACJ, Sasidharan R, 2016. Transcriptomes of eight Arabidopsis thaliana accessions reveal core conserved, genotype- and organ-specific responses to flooding stress. Plant Physiology, http://dx.doi.org/10.1104/pp.16.00472. *equal contribution

Vashisht D, van Veen H, **Akman M**, Sasidharan R, 2016. Variation in Arabidopsis flooding responses identifies numerous putative "tolerance genes". Plant Signaling and Behaviour, 11: 668-89.

van Veen H^{*}, **Akman M**^{*}, Jamar DCL, Vreugdenhil D, Kooiker M, van Tienderen PH, Voesenek LACJ, Schranz ME, Sasidharan R, 2014. Group VII ethylene response factor diversification and regulation in four species from flood-prone environments. Plant Cell and Environment, 37: 1365-3040. *equal contribution

Akman M, Bhikharie AV[♦], Mustroph A, Sasidharan R, 2014. Extreme flooding tolerance in *Rorippa*. Plant Signaling and Behaviour 9: e27847. [♦] mentored M.Sc. student

- Sasidharan R, Mustroph A, Boonman A, **Akman M**, Ammerlaan AMH, Breit T, Schranz ME, Voesenek LACJ, van Tienderen PH, 2013. Root transcript profiling of two *Rorippa* species reveals gene clusters associated with extreme submergence tolerance. Plant Physiology, 16: 1277-1292.
- **Akman M**, Bhikharie AV[†], Mclean E, Boonman A, Visser EJW, Schranz ME, van Tienderen PH, 2012. Wait or Escape? Contrasting submergence tolerance strategies of *Rorippa amphibia*, *Rorippa sylvestris* and their hybrid. Annals of Botany, 109: 1263-1276. [†] **mentored M.Sc. student**
- Atalay F, Taner MZ, Taskiran C, Pak I, **Or M**, Tuncer S, 2007. Detection of human papillomavirus DNA and genotyping in patients with epithelial ovarian carcinoma. International Journal of Obstetrics and Gynecology, 33: 823-828.

PUBLICATIONS IN PREPARATION

- **Akman M**, Latimer AM, Carlson JE. Links between climate and physiological and gene expression plasticity of a South African shrub, *Protea repens*.
- **Akman M**, Zhao X^{\(\phi\)}, Latimer AM. Evidence for gene expression differentiation linked to local adaptation in invasive *Carpobrotus edulis* along Northern California coast.

 \(^{\phi}\)

 mentored M.Sc. student

SELECTED TALKS AND SEMINARS

Sirince, Turkey

- **Akman M**, JE Carlson, AM Latimer. Climatic gradients shape intraspecific divergence in plasticity for functional traits and gene expression in a South African Protea. Evolution Conference, Portland, OR
- **Akman M**. Species persistence in the light of adaptation and plasticity. Turkish Evolution Conference, 2016, Ankara, Turkey
- **Akman M**, JE Carlson, KE Holsinger, AM Latimer. Climate gradients drive local adaptation via gene expression in South African sugarbush. Plant Diversity in the GCFR: From Genomes to Biomes Symposium, 2015, Cape Town, South Africa
- **Akman M**, A Latimer. Genetic basis of local adaptations in the South African shrub Protea repens. Ecological Society of America Conference, 2014, Sacramento, CA
- **Akman M**, EJW Visser, PH van Tienderen, ME Schranz. Submergence Tolerance in *Arabidopsis* and the Related Genus *Rorippa* (Yellow cress), Annual Ecology Meeting, 2010, Lunteren, The Netherlands
- **Akman M**, EJW Visser, PH van Tienderen, ME Schranz. Submergence tolerance and survival strategies in Brassicaceae, Center for Wetland Ecology Annual Meeting, 2009. The Netherlands

AWARDS

2015	Selected participant and speaker in Micromorph Workshop "Phenotypic
	Plasticity: Evolution at the Intersection of Ecology, Genetics and
	Development", Boston, MA
2014	NESCent travel award for Quantitative Evolutionary Biology Workshop,

Presentation award at Molecular mapping and Marker assisted selection Conference, Vienna, Austria (2nd place)
 Young Scientist Award at 10th International Society for Plant Anaerobiosis Conference, Volterra, Italy

GRANTS AND FELLOWSHIPS

Evolutionary plant solutions to ecological challenges (collaborating scientist) Molecular mechanisms underlying adaptive traits in the Brassicaceae Program, German Research Foundation, PI: Prof. Dr. Angelika Mustroph, Bayreuth University, Germany
 Netherlands Organization of Scientific Research (NWO) Open Program Postdoctoral scholarship funding; proposal submitted with Dr. Rashmi Sasidharan (research budget and 3-year postdoctoral researcher financial support), declined
 Center for Wetland Ecology, The Netherlands (PhD fellowship)
 Department of Biology PhD fellowship, University of Lausanne, Switzerland, declined

SERVICE/ OUTREACH/VOLUNTEERED ACTIVITIES

2015-	Volunteer in Bay Area Scientists in Schools (BASIS) Program
2015	Founding committee member of Ecology and Evolution Society of Turkey
2014	Organizer of "Ecological genomics as an emerging field: Opportunities for
	non-model organisms" oral session at Ecological Society of America
	Conference
2009-2012	Executive member, Council of PhD students at Institute of Biodiversity and
	Ecosystem Dynamics, University of Amsterdam
2008-	Member of a team translating Berkeley's understanding evolution
	website (www.evolution.berkeley.edu) to Turkish(www.evrimianlamak.org)

TEACHING AND MENTORING EXPERIENCE

2016	Mentoring of a MSc student, UC Davis
2015	Workshop organizer "Sequencing of Transcriptomes: From Sample
	Collection to Data Analysis" in "Plant Diversity in the GCFR: From
	Genomes to Biomes Symposium", Cape Town, South Africa
2014	Workshop organizer "Population level transcriptomics" in "Quantitative
	Evolutionary Biology Course", Sirince, Turkey
2008-2012	Supervision of three MSc and a BSc thesis projects
2007-2011	Teaching Assistant for courses (a) Ecological Genomics, (b) Plant Biology
	and (c) Ecological Physiology of Plants Laboratory

LANGUAGES

Turkish (native language), English (proficient), Dutch (intermediate)

PROGRAMMING LANGUAGES

R, Python