Curriculum vitae - Prof. Dr. Karl Schmid

Personal inform	nation: Born 27 March 1966 in Aindling (Bavaria) - German Nationality - Married, 4
	children
Current position	n: Full Professor (W3)
	Head of Research Group 'Crop Biodiversity and Breeding Informatics'
Institute addres	ss: Institute of Plant Breeding, Seed Science and Population Genetics
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Education	-
1986 - 1992 1993 - 1996	Studies in Biology, University of Munich, Germany and Oxford University, UK Research associate (PhD student), Institute of Zoology, University of

Munich, Germany 1996 Dr. rer. nat, *magna cum laude*, University of Munich

Scientific career

1997 - 1999	Postdoc, Dept. of Molecular and Cell Biology, Cornell University, Ithaca NY, USA
2000 - 2006	Group Leader (Emmy-Noether Fellow), Department of Genetics and Evolution, Max-
	Planck Institute of Chemical Ecology, Jena, Germany
2006 - 2008	Group Leader (Evolutionary Genetics), Genebank Department, Leibniz Institute of
	Plant Genetics and Crop Research (IPK), Gatersleben, Germany
2008	Professor of Genetics, Swedish University of Agricultural Sciences, Uppsala,
2009 - 2014	Guest Professor, Swedish University of Agricultural Sciences, Uppsala, Sweden
since 2008	Full Professor (W3) of Crop Biodiversity and Breeding Informatics,
	University of Hohenheim, Germany

Research interests

Demography and local adaptation of wild and domesticated plants. Methods for utiliziation of plant genetic resources in plant breeding. Genetic mapping of domestication, adaptation and improvement genes in wild and domesticated plants.

Honors and special recognitions

2017	Award 'Freedom for Research 'of the Gips-Schüle Foundation, Stuttgart
2000 - 2004	Emmy-Noether Fellowship of the DFG
1999	NATO Fellowship from the German Academic Exchange Service
1997	Short-Term Fellowship Boehringer Ingelheim Fonds
1990 - 1991	DAAD Fellowship
1989 - 1992	Fellowship of the German Fellowship Foundation (Studienstiftung des deutschen
	Volkes)

Other activities

Since 2018	Full Member of the Central Commission for Biological Safety (ZKBS) at the Federal Agency of Consumer Protection and Food Safety (BVEL)
2016 - 2018	Deputy Member of the Central Commission for Biological Safety (ZKBS) at the Federal Agency of Con- sumer Protection and Food Safety (BVEL)
Since 2016	Coordinator DFG Research Priority Programme SPP1819 "Rapid Evolutionary Adaptation - Potential and Constraints"
Since 2016	Member of Scientific Advisory Board, German Ministry of Science (BMBF) Program 'Plants for the future'
2014 - 2016 'Adapte	Member of Steering committee DFG Priority Program SPP1529 omics'

- Since 2013 Member of Scientifc advisory board of University Research Priority Program (URPP) 'Evolution in Action', University of Zurich
- 2007 2010 National coordinator and chair of work group 1, COST activity FA604 'Tritigen'
- 2001 2006 Member of Steering Committee of Jena Center for Bioinformatics (JCB)

Selected publications

- 1. Stetter M.G., Vidal-Villarejo M., **Schmid K. J.** (2020) Parallel seed color adaptation during multiple domestication attempts of an ancient New World grain. Mol. Biol. Evol. 37:1407–1419
- Haupt, M., Schmid, K. (2020) Combining focused identification of germplasm and core collection strategies to identify genebank accessions for central European soybean breeding. Plant Cell Environ. 43: 1421–1436.
- Lampei C., Wunder J., Wilhalm T., Schmid K.J. (2019) Microlimate predicts frost hardiness of alpine Arabidopsis thaliana populations better than elevation. Ecology and Evolution 9: 13017-13029.
- Thorwarth P., Eltohamy Y., Schmid K. J. (2018) Genomic prediction and association mapping of curd-related traits in genebank accessions of cauliflower. G3: Genes, Genomes, Genetics 8:707-718.
- Günther T., Lampei C., Barilar I. and Schmid K. J. (2016) Genomic and phenotypic differentiation of *Arabidopsis thaliana* along altitudinal gradients in the North Italian Alps. Molecular Ecology. Mol. Ecol. 25, 3574–3592
- Gossmann T. I., Saleh D., Schmid M., Spence M. A., Schmid K. J. (2016) Transcriptomes of plant gametophytes have a higher proportion of rapidly evolving and young genes than sporophytes. Mol. Biol. Evol. 33:1669–1678
- Russell, J., Mascher, M., Dawson, I.K., Kyriakidis, S., Calixto, C., Freund, F., Bayer, M., Milne, I., Marshall- Griffiths, T., Heinen, S., Hofstad, A., Sharma, R., Himmelbach, A., Knauft, M., van Zonneveld, M., Brown, J.W.S., **Schmid, K. J.**, Kilian, B., Muehlbauer, G.J., Stein, N. and Waugh, R. (2016) Exome sequencing of geographically diverse barley landraces and wild relatives gives insights into environmental adaptation. Nature Genetics 48,1024-1030
- Gossmann T.I., Schmid M.W., Grossniklaus, U., and Schmid, K.J. (2014). Selection-driven evolution of sex-biased genes is consistent with sexual selection in *Arabidopsis thaliana*. Mol. Biol. Evol. 31:574-583
- Günther T.,Lampei C.and Schmid K. J.(2013) Mutational bias and gene conversion affect the intraspecific nitrogen stoichiometry of the *Arabidopsis thaliana* transcriptome. Mol. Biol. Evol. 30:561-8
- Cao J., Schneeberger K., Ossowski S., Günther T., Bender S., Fitz J., Koenig D., Lanz C., Stegle O., Wang X., Ott F., Müller J., Alonso-Blanco C., Borgwardt K., Schmid K.J., and Weigel D. (2011) Whole-genome sequencing of multiple *Arabidopsis thaliana* populations. Nature Genetics 43:956-963

Google Scholar page: https://scholar.google.de/citations?user=TN3bbNwAAAAJ