

Curriculum Vitae



Personal Details

Name: Stephan Weise
Address: Leibniz Institute of Plant Genetics and Crop Plant Research (IPK),
OT Gatersleben, Corrensstr. 3, 06466 Seeland, Germany
Date of birth: 10 November 1975
Nationality: German
Phone: +49 39482 5-744
Email: weise@ipk-gatersleben.de
ORCID: 0000-0003-4031-9131
H-Index: 16
Erdős number: 3

Education

01/2007 to 11/2009 **Faculty of Technology, Bielefeld University, Germany**
Ph.D. (Dr. rer. nat.) in Bioinformatics (focus on data integration, data
warehousing, data mining and data quality)
10/1997 to 04/2002 **Faculty of Computer Science, Otto von Guericke University, Germany**
M.Sc. (Dipl.-Wirtsch.-Inf.) in Business Information Technology (focus on
process modelling, system development, data privacy and data security)

Professional Activities

02/2020 to date **Leibniz Institute of Plant Genetics and Crop Plant Research, Germany**
Head of the Research Group Genbank Documentaton
04/2014 to date **EURISCO Network Coordinator**
European Search Catalogue for Plant Genetic Resources
(<http://eurisco.ecpgr.org>) in the frame of the European Cooperative
Programme for Plant Genetic Resources (ECPGR)
05/2002 to 01/2020 **Leibniz Institute of Plant Genetics and Crop Plant Research, Germany**
Bioinformatician

Teaching Experience

04/2015 to 10/2020 **Hochschule Anhalt, University of Applied Sciences, Germany**
Visiting Lecturer (Lehrbeauftragter) for Bioinformatics
09/2010 to 03/2014 **Hochschule Harz, University of Applied Sciences, Germany**
Visiting Lecturer (Lehrbeauftragter) for Database Management Systems
04/2010 to 06/2010 **Hochschule Anhalt, University of Applied Sciences, Germany**
Visiting Lecturer (Lehrbeauftragter) for Bioinformatics
04/2007 to 07/2007 **Otto von Guericke University, Germany**
Visiting Lecturer (Lehrbeauftragter) for Bioinformatics

Publications (selection)

- P.D. Shaw, S. Weise, M. Obreza, S. Raubach, S. McCouch, B. Kilian and P. Werner. **Database solutions for genebanks and germplasm collections**. In K. Ghamkhar, W. Williams and A.H.D. Brown (editors), *Plant Genetic Resources in the 21st Century – The OMICS Era*, chapter 16. Apple Academic Press, 2022. In press.
- Y. Jiang, S. Weise, A. Graner, and J.C. Reif. **Using genome-wide predictions to assess the phenotypic variation of a barley (*Hordeum* sp.) gene bank collection for important agronomic traits and passport information**. *Frontiers in Plant Science*, 11:604781, 2021.
- U. Lohwasser and S. Weise. **Genetic resources of medicinal and aromatic plants**. In J. Novak and W.-D. Blüthner (editors), *Medicinal, Aromatic and Stimulant Plants, Handbook of Plant Breeding series*, vol. 12, pp. 1–205, Springer International Publishing, Cham, 2020.
- S. Weise, U. Lohwasser and M. Oppermann. **Document or lose it – on the importance of information management for genetic resources conservation in genebanks**. *Plants*, 9(8):1050, 2020.
- S. Kreide, M. Oppermann and S. Weise. **Advancement of taxonomic searches in the European Search Catalogue for Plant Genetic Resources**. *Plant Genetic Resources: Characterization and Utilization*, 17(6):559–561, 2019.
- N. Philipp, S. Weise, M. Oppermann, A. Börner, J. Keilwagen, B. Kilian, D. Arend, Y. Zhao, A. Graner, J.C. Reif and A.W. Schulthess. **Historical phenotypic data from seven decades of seed regeneration in a wheat *ex situ* collection**. *Scientific Data*, 6(1):137, 2019.
- S.G. Milner, M. Jost, S. Taketa, E. Rey Mazón, A. Himmelbach, M. Oppermann, S. Weise, H. Knüpfper, M. Basterrechea, P. König, D. Schüler, R. Sharma, R.K. Pasam, T. Rutten, G. Guo, D. Xu, J. Zhang, G. Herren, T. Müller, S.G. Krattinger, B. Keller, Y. Jiang, M.Y. Gonzalez, Y. Zhao, A. Habekuß, S. Färber, F. Ordon, M. Lange, A. Börner, A. Graner, J.C. Reif, U. Scholz, M. Mascher and N. Stein. **Genebank genomics highlights the diversity of a global barley collection**. *Nature Genetics*, 51(2):31–326, 2019.
- M.Y. González, S. Weise, Y. Zhao, N. Philipp, D. Arend, A. Börner, M. Oppermann, A. Graner, J.C. Reif and A.W. Schulthess. **Unbalanced historical phenotypic data from seed regeneration of a barley *ex situ* collection**. *Scientific Data*, 5:180278, 2018.
- M.Y. González, N. Philipp, A.W. Schulthess, S. Weise, Y. Zhao, A. Börner, M. Oppermann, A. Graner and J.C. Reif. **Unlocking historic phenotypic data from an *ex situ* collection to enhance the informed utilization of genetic resources of barley (*Hordeum* sp.)**. *Theoretical and Applied Genetics*, 131(9):2009–2019, 2018.
- N. Philipp, S. Weise, M. Oppermann, A. Börner, A. Graner, J. Keilwagen, B. Kilian, Y. Zhao, J.C. Reif and A.W. Schulthess. **Leveraging the use of historical data gathered during seed multiplication of an *ex situ* genebank collection of wheat**. *Frontiers in Plant Science*, 9:609, 2018.
- S. Weise, M. Oppermann, L. Maggioni, T. van Hintum and H. Knüpfper. **EURISCO: The European Search Catalogue for Plant Genetic Resources**. *Nucleic Acids Research*, 45(D1), D1003-D1008, 2017.
- H. Ćwiek-Kupczyńska, T. Altmann, D. Arend, E. Arnaud, D. Chen, G. Cornut, F. Fiorani, W. Frohmberg, A. Junker, C. Klukas, M. Lange, C. Mazurek, A. Nafissi, P. Neveu, J. van Oeveren, C. Pommier, H. Poorter, P. Rocca-Serra, S.-A. Sansone, U. Scholz, M. van Schriek, Ü. Seren, B. Usadel, S. Weise, P. Kersey and P. Krajewski. **Measures for interoperability of phenotypic data: minimum information requirements and formatting**. *Plant Methods*, 12(1):44, 2016.
- P. Krajewski, D. Chen, H. Ćwiek, A.D.J. van Dijk, F. Fiorani, P. Kersey, C. Klukas, M. Lange, A. Markiewicz, J.P. Nap, J. van Oeveren, C. Pommier, U. Scholz, M. van Schriek, B. Usadel and S. Weise. **Towards recommendations for metadata and data handling in plant phenotypic experiments**. *Journal of Experimental Botany*, 66(18):5417-5427, 2015.