

## Biographical Sketch

### Oliver Gailing, Ph.D.

Professor

Department of Forest Genetics and Forest Tree Breeding

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### A. Professional preparation

University Bochum; Bochum, NW, GER	Biology	M.S.	1994
University Halle-Wittenberg, Halle, ST, GER	Genetics	Dr. rer. nat.	2000
IPK-Gatersleben, Gatersleben, ST, GER	Genetics	Postdoc	2000-2002
Göttingen University, Göttingen, NI, GER	Genetics	Habilitation	2009

### B. Appointments

Since 2017	Professor and Chair, Forest Genetics, University of Göttingen
2016-2017	Professor, Michigan Tech University
2012-2016	Associate Professor, Michigan Tech University
2009-2012	Assistant Professor, Michigan Tech University
2008-2009	Research Scientist, University of Göttingen, Germany
2002-2008	Lecturer (“Wissenschaftlicher Assistent”), University of Göttingen
2000-2002	Research Scientist (PostDoc), Leibniz Institute IPK-Gatersleben, Germany
1996-2000	Research Scientist (Ph.D.), Leibniz Institute IPK-Gatersleben, Germany

### Related Publications

Vu, G.T.H., Cao, H.X., Hofmann, M., Steiner, W. & **O. Gailing**. 2024. Uncovering epigenetic regulation of growth in Douglas-fir: Identification of differential methylation regions in mega-sized long intron genes. *Plant Biotechnology Journal*. <https://doi.org/10.1111/pbi.14229>.

Budde; K.B., Hötzel, S., Müller, M., Samsonidze, N., Papageorgiou, A., & **O. Gailing**. 2023. Differentiation and admixture of *Fagus sylvatica* L. and *Fagus orientalis* Lipsky in a northern German forest – learning from pioneer forest work. *Forest Ecology and Management* 537:120947. <https://doi.org/10.1016/j.foreco.2023.120947>

Müller, M., Kües, U., Budde, K. & **O. Gailing**. 2023. Applying molecular and genetic methods to trees and their fungal communities. *Applied Microbiology and Biotechnology* 107: 2783-2830. <https://doi.org/10.1007/s00253-023-12480-w>

Mehdi Youneesi-Hamzekhanlu, M. & **O. Gailing**. 2022. Genome-wide SNP markers accelerate perennial forest tree breeding rate for disease resistance through marker-assisted selection and genome-wide selection. *International Journal of Molecular Sciences* 23: 12315. <https://doi.org/10.3390/ijms232012315>

- Lazic, D., Hipp, A.L., Carlson, J.E. & **O. Gailing**. 2021. Use of genomic resources to assess adaptive divergence and introgression in oaks. *Forests* 12:690. <https://doi.org/10.3390/f12060690>
- Tsipidou, O., Leinemann, L., Korakis, G., Finkeldey, R., **Gailing, O.** & A. C. Papageorgiou. 2021. Fine scale spatial patterns of beech genetic diversity around a mountainous glacial refugium in the SW Balkans. *Forests* 12: 725. <https://doi.org/10.3390/f12060725>
- Müller, M., Kempen, T., Finkeldey, R. & **O. Gailing**. 2020. A large translocation experiment revealed low population differentiation but high phenotypic plasticity of European beech in Germany. *Forests* 11: 1354. <https://doi.org/10.3390/f11121354>
- Caré, O., **Gailing, O.**, Müller, M., Krutovsky, K.V., & L. Leinemann. 2020. Crown morphology in Norway spruce (*Picea abies* [Karst.] L.) as adaptation to mountainous environments is associated with single nucleotide polymorphisms (SNPs) in genes regulating seasonal growth rhythm. *Tree Genetics and Genomes* 16:4. <https://doi.org/10.1007/s11295-019-1394-x>
- Müller, M. & **O. Gailing**. 2019. Abiotic genetic adaptation in the Fagaceae. *Plant Biology* 21:783-795. doi:10.1111/plb.13008
- Varsamis, G., Papageorgiou, A.C., Merou, T., Takos, I., Malesios, C., Manolis, A., Tsiripidis, I. & **O. Gailing**. 2019. Adaptive diversity of beech seedlings under climate change scenarios. *Frontiers in Plant Science* 9:1918. <https://doi.org/10.3389/fpls.2018.01918>

#### **D. Synergistic activities**

- 1) Ad hoc reviewer for international Journals (e.g. BMC Plant Biology, Conservation Genetics, Molecular Ecology, New Phytologist, Plant Biology, Physiologia Plantarum, Plant Biology, Plant Cell and Environment, Plant Systematics and Evolution, PlosOne)
- 2) Ad hoc reviewer for NSF Plant Genomics program, Agence Nationale de la Recherche (France); ERANET, European Union's 6th Framework Program for Research
- 3) Session Chair in international conferences, (AOX symposium, 2009, Evora, Portugal, Fagaceae Genomic conference (Raleigh November 10 -13, North Carolina)
- 4) Editorial boards: *Frontiers in Genetics*, *European Journal of Forest Research*, *Annals of Forest Research* (since May 2014)
- 5) Honors and Awards: 2018: Honorary Professor, Transsilvania University of Brasov, October 2014: Manierre Publication Award, Huron Mountain Wildlife Foundation, 1/2009: Habilitation (Post Lecturer Qualification) for Forest Genetics and Forest Tree Breeding at the Georg-August University of Göttingen; 7/2000 Luther certificate of the University Halle / Wittenberg for the Ph.D. thesis