

# Curriculum vitae - Oliver Gailing

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## **Education**

1988-1990: the Technical University of Munich (Weihenstephan)

1990-1994: the Ruhr-Universität Bochum, MS in Biology (*Diplom*)

- specialization: systematic botany, general botany, cell biology, environmental medicine
- Diploma thesis: Morphogenetic and comparative studies of leaves and ramenta in the fern *Polypodium aureum* (supervisor: Prof. Dr. T. Stützel)

1994-1996: Research Associate (Wissenschaftlicher Mitarbeiter) at the Institute of Systematic Botany at the Ruhr-Universität Bochum

1996-2000: Ph.D. student at the Institute of Plant Genetics and Crop Plant Research (IPK-Gatersleben)

- Ph.D. in Genetics, Dr. rer. nat. (summa cum laude)
- Luther certificate of the University Halle / Wittenberg

2000-2002: postdoctoral studies at the IPK-Gatersleben

2002-2009: Assistant Professor (*C1 position*) at the Institute Forest Genetics and Forest Tree Breeding at the Georg-August University of Göttingen (Head of the Institute: Prof. Dr. R. Finkeldey)

1/2009: Habilitation (Post Lecturer Qualification) for Forest Genetics and Forest Tree Breeding at the Georg-August University of Göttingen

## **Research and work experience**

10/1994 - 12/1996

Research Scientist at the Institute of Systematic Botany of the Ruhr-Universität Bochum

- Morphological and anatomical studies in ferns
- Scholarship holder of the „Kölner Stiftungsfond“
- *Publications Nr. 1, 2*

8/1995

Internship at the Federal Center of Breeding Research on Cultivated Plants in Braunschweig-Völkenrode (Germany)

- Tissue culture in chicory (*Cichorium intybus* L.. var. *sativum*)
- *Publication Nr. 3*

12/1996 - 3/2002

Research Scientist at the Institute of Plant Genetics and Crop Plant Research in Gatersleben (IPK)

- The evolutionary reduction from 4 to 2 microsporangia: comparative developmental and genetic studies (DFG, Deutsche Forschungsgemeinschaft, German Science Foundation), 3 years, supervisor: Prof. Dr. K. Bachmann)
- In-depth genetic analysis of the evolutionary reduction from 4 to 2 microsporangia in *Microseris* (DFG-project, 2 years; supervisor Prof. Dr. K. Bachmann)
- Doctoral thesis defense at the Martin-Luther University of Halle / Wittenberg (19.07.2000): The evolution of diagnostic characters: the evolutionary reduction of inner microsporangia within genus *Microseris* (Asteraceae), Supervisor: Prof. Dr. Konrad Bachmann; Dissertation Readers: Prof. Dr. K. Bachmann, Prof. Dr. W. E. Weber, Prof. Dr. U. Weber
- *Publications: Nr. 4, 5, 6, 7, 8, 9, 1a, 2a*

10/1998 and 2/1999

research internship at the University of Exeter (UK) in the Department of Biological Sciences (financed by the German Academic Exchange Service (*Deutscher Akademischer Austauschdienst, DAAD*) and the British Council)

- Genetic analyses of the adaptation to serpentine soil in *Microseris*
- QTL mapping of species differences in soil adaptation in plants
- *Publication: Nr. 13*

4/2002 – 6/2009

Assistant Professor at the Institute of Forest Genetics and Forest Tree Breeding (Georg-August University of Göttingen, Germany)

6/2009: Assistant Professor, School of Forest Resources and Environmental Science, Michigan Technological University

**Projects** (PI: Oliver Gailing, CoPI: Reiner Finkeldey):

- Development and application of chloroplast DNA markers in slavonian pedunculate oak (*Q. robur* L.)
- *Publications: Nr. 10, 28, 33*
- Differentiation between *Fagus sylvatica* and *Fagus orientalis* at nuclear and chloroplast DNA markers
- *Publication: Nr. 15, 3b*
- Genetic mapping (QTL-mapping) of bud burst and other potentially adaptive characters in full-sib oak progenies
- *Publications: Nr. 21, 35, 39*
- Genetic and morphological characterization of beech (*Fagus sylvatica* L.) populations in Greece (German Academic Exchange Service, IKYDA)
- *Publication: Nr. 31, 41*

**Projects** (PI: Reiner Finkeldey, CoPI: Oliver Gailing):

- Genetic variation and reproduction in *Dalbergia sissoo* in Nepal (German Academic Exchange Service)
- *Publication: Nr. 11*
- Genetic parameters as indicators for the success in natural regeneration in *Fagus sylvatica*
- *Publication: Nr. 14*
- Spatial genetic structures and natural hybridisation in a species-rich oak (*Quercus* spp.) forest (German Academic Exchange Service)
- *Publications: Nr. 17, 29, 34*

- Genetic variation in isolated Mexican populations of the endemic maple *Acer scutchii* Rehd. (German Academic Exchange Service)
- *Publication: Nr. 19*
- The application of molecular genetic markers for the identification of the origin of wood from tropical forest species (Federal Ministry of Food, Agriculture and Consumer Protection)
- *Publication: Nr. 27, 3a, 4a, 41, 43*
- Genetic differentiation of earthworm populations in Europe (*Lumbricus terrestris*) due to geographic isolation and different habitat requirements (German Science Foundation, DFG)
- DIGENFOR: Naturally occurring nucleotide diversity in candidate genes for forest tree adaptation: magnitude, distribution and association with quantitative trait variation (Federal Ministry of Education and Research)
- *Publication: Nr. 8b*
- Microsatellite marker (SSR) isolation for the genus *Prosopis* and their application to a mating system analysis in a hybrid swarm between *Prosopis chilensis* und *P. flexuosa* (Ministry for Science and Culture of lower Saxony)
- *Publications: Nr. 16, 18*
- Conservation and sustainable utilization of plant genetic resources in SE-Asia (ASEAN-EU University Network Programme)
- *Publication: Nr. 3a*
- Genetic diversity within natural populations of African redwood, *Hagenia abyssinica* (Bruce) J. F. Gmel, in Ethiopia (German Academic Exchange Service/GTZ)
- Genetic variation in *Cordia africana* Lam. (*Boraginaceae*) in Ethiopia (German Academic Exchange Service)
- Genetic variation of *Shorea* (Dipterocarpaceae) in Indonesia (DFG, German Science Foundation, Federal Ministry for Economic cooperation and Development)
- *Publications: 25, 26, 42*
- Genetic variation of *Mansonia altissima*, *Triplochiton scleroxylon* and *Sterculia rhinopetala* under different anthropogenic impacts in the Akure Forest Reserve, Nigeria (German Academic Exchange Service)
- Spatial distribution of the genetic variation in *Araucaria angustifolia* (CAPES, Brasil)
- *Publications: Nr. 23, 30, 32, 37, 38, 6b, 9b*
- Study on the reproduction system in Norway spruce (*Picea abies* [L.] Karst.) in pure and mixed stands with different density (DFG, German Science Foundation)
- *Publications: Nr. 20, 7b*
- Development of microsatellite markers in order to study reproduction and gene flow in sycamore maple (*Acer pseudoplatanus* L.) (DFG, German Science Foundation)
- *Publications: Nr. 12, 22*
- Chloroplast DNA variation in Indonesian Dipterocarpaceae (German Academic Exchange Service)
- *Publications: Nr. 24, 4b*
- Spatial distribution of genetic variation with *Cedrus brevifolia* (German Academic Exchange Service)
- Phylogenetic analyses in Philippine Dipterocarpaceae (master thesis, ASEAN-EU University Network Programme)
- Morphological and genetic analyses in the vulnerable cycad *Encephalartos barteri* Carruthers ex Miquel ssp. *barteri* (Zamiaceae) – Master thesis (IPGRI)

- *Publication: Nr. 36*
- Marker development for the certification of wood and wood products in Shorea species (German Academic Exchange Service)
- Phylogeny of tribe Dipterocarpaceae using chloroplast DNA sequences (German Academic Exchange Service)
- EVOLTREE: Evolution of trees as drivers of terrestrial biodiversity (EU, 6th framework program, Coordinator: Antoine Kremer, INRA Pierroton, France)

**Other international experience**

9/2003

AUNP meeting at the IPB University of Bogor (Indonesia)

- Lecture: Molecular Tools for the Conservation of Forest Genetic Resources
- Establishment of a molecular genetic laboratory

6/2003 und 2/2006

internship at the INRA institute in Pierroton (France)

**Scholarships, funding and awards**

Development and application of chloroplast DNA markers for the characterization of Slavonian oak (*Q. robur* L.) in Germany (LOEBF, federal money, North Rhine-Westphalia, 2005)

Analysis of chloroplast DNA markers and bud phenology in selected oak stands (*Q. robur* L.) in Germany - (LOEBF, federal money, North Rhine-Westphalia, 2006-2007)

(2005 – 2008, 56.405,50 €)

Research of diversity in beech populations (*Fagus sylvatica*) in Greece using morphological traits and molecular markers (DAAD, IKYDA, Greek-German Academic Research Collaboration, 1.1.2006 - 1.1.2008, 7.000€)

Spatial dynamics of intraspecific variation in beech (*Fagus sylvatica* L.): environmental and human impacts and their importance for forest ecosystems (German Science Foundation, DFG, 3 year project starting in March 2008, together with Prof. Finkeldey; 130.850,00 €).

DIGENFOR: Naturally occurring nucleotide diversity in candidate genes for forest tree adaptation: magnitude, distribution and association with quantitative trait variation (Reiner Finkeldey, Oliver Gailing, GABI, BMBF, 10/2004 – 10/2007, 260.000 €)

Martin Luther award (Lutherurkunde) of the University of Halle - Wittenberg for the Ph.D. thesis

**Teaching, lecturing and advising**

since 4/2002

Lectures and courses held at the Georg-August-University of Göttingen

- Introduction to Forest Genetics (lecture)
- Genetics and Ecophysiology (laboratory course)
- Forensic Science (team teaching)
- Forest Tree Breeding (team teaching)
- Forest Genetics (seminar)
- Molecular wood biotechnology (practical training)
- Molecular genetics (practical training)

Supervision of bachelor and master students

- Bachelor thesis (Kai Neemann): Genetic variation in *Galium odoratum* populations in different habitats (University of Göttingen)
- Master thesis (Ngo Thi Duyen): Genetic variation and aspects of the mating system of *Pinus merkusii* clonal seed orchard in Vietnam (University of Göttingen)
- Bachelor thesis (Daniela Maschek): Chloroplast DNA variation in oaks
- Bachelor thesis (Katrin Hesse): Distribution of genetic variation in *Fagus sylvatica* in Middle Europe
- Master thesis (Archana Gauli): Genetic variation patterns in *Pinus roxburghii* in Nepal
- Master thesis (Yazar Min): Genetic diversity within and among populations of teak (*Tectona grandis* Linn. F.) and Dahat (*Tectona hamiltoniana* Wall.) in Myanmar detected by AFLPs and cpSSRs
- Master thesis (Demissew Sertse Desta): Genetic variation of *Juniperus procera* Hochst. Ex Endl in Ethiopia using microsatellites and AFLP markers
- Bachelor thesis (Christoph Gottwald) The application of molecular marker to characterize the geographic origin of wood sample- *Shorea leprosula* as an example
- Bachelor thesis (Bastian Heß) Analysis of chloroplast DNA markers to characterize genetic diversity of oak stands in Rhineland Palatinate
- Bachelor thesis (Julia Hinrichsen) Data analysis from provenance trials in *Acer pseudoplatanus*.

**Invited talks**

- Vitalität und genetische Variabilität der Eiche in Nordrhein-Westfalen (LOEBF, Landesanstalt für Ökologie, Bodenordnung und Forsten, Nordrhein-Westfalen)
- Colloquium in the Institute of Biology, University of Kassel (16.12.2004) Conservation genetics of South East Asian Dipterocarpaceae: Studies on chloroplast and nuclear DNA variation
- AUNP meeting in Bogor (Indonesien, 9/2003). Molecular Tools for the Conservation of Forest Genetic Resources, Molecular and biochemical methods
- University of Evora (Portugal, 7/2008). Adaptive trait variation in trees - oaks as a model
- INRA Pierroton (Frankreich, 6/2008). Adaptive trait variation in trees - *Quercus* as a model for ecological genetics
- First international AOX Symposium (Evora, Portugal, 10/2008). Genetic and genomic approaches to assess adaptive genetic variation in plants.

**Reviewer**

Allgemeine Forst und Jagdzeitung, BMC Plant Biology, Conservation Genetics, Molecular Ecology, New Phytologist, Plant Biology, Plant Cell and Environment, Plant Systematics and Evolution, Silvae Genetica,

**Advisory opinion**

Possibilities and restrictions for the use of molecular markers to certify the origin of forest reproductive material (for the Federal Research Centre of Ecology And Forestry (LÖBF, North Rhine-Westphalia)

**Other responsibilities**

Appointee for biological security, Reviewer of European research projects (e.g. ERANET)

**Languages**

German, English & French

## Publications

### *Papers in peer-reviewed journals*

1. Stützel, T. & **O. Gailing**. 1995. Blätter und Spreuschuppen bei Farnen, Unterschiede und Gemeinsamkeiten unter phylogenetischen und morphogenetischen Gesichtspunkten. *Beitr. Biol. der Pflanzen* 69: 17-29.
2. **Gailing, O.** 1995. Untersuchungen der Scheitelmorphologie bei *Dryopteris*-Arten und *Athyrium filix-femina* L. sowie der Verzweigung bei *Athyrium filix-femina* L. *Beitr. Biol. der Pflanzen* 69: 31-41.
3. Mix-Wagner, G. & **O. Gailing**. 1996. Der Einfluß verschiedener Zucker auf die Kallus- und Sproßbildung bei Zichorie (*Cichorium intybus* L. var. *sativum*). *Landbauforschung Völkenrode* 46: 1-4.
4. **Gailing, O.**, E.-J. Hombergen, & K. Bachmann. 1999. QTL mapping reveals specific genes for the evolutionary reduction of microsporangia in *Microseris* (Asteraceae). *Plant Biology* 1: 219-225.
5. **Gailing, O.** & K. Bachmann. 1999. Comparative developmental study of the evolutionary reduction of adaxial microsporangia in *Microseris bigelovii* (Asteraceae). *Plant Biology* 1: 429-434.
6. **Gailing, O.** & K. Bachmann. 2000. The evolutionary reduction of microsporangia in *Microseris* (Asteraceae): transition genotypes and phenotypes. *Plant Biology* 2: 455-461.
7. **Gailing, O.** & K. Bachmann. 2002. QTL analysis reveals different and independent modes of inheritance for diagnostic achene characters in *Microseris* (Asteraceae). *Organisms Diversity and Evolution* 2: 277-288.
8. **Gailing, O.** & K. Bachmann. 2003. The anthers of *Senecio vulgaris* (Asteraceae): saltatory evolution caught in the act. *Plant Systematics and Evolution* 240:1-10.
9. **Gailing, O.** & K. Bachmann. 2003. QTL mapping reveals a two-step model for the evolutionary reduction of inner microsporangia within the asteracean genus *Microseris*. *Theoretical and Applied Genetics* 107:893-901.
10. **Gailing, O.**, Wachter, H., Leinemann, L., Hosius, B., Finkeldey, R., Schmitt, H.-P. & J. Heyder. 2003. Characterisation of different provenances of late flushing pedunculate oak (*Quercus robur* L.) with chloroplast markers. *Allgemeine Forst und Jagdzeitung* 174 (12): 227-231.
11. Pandey, M., **Gailing, O.**, Leinemann, L. & R. Finkeldey. 2004. Genetic differentiation between natural forests and plantations of *Dalbergia sissoo* Roxb. in Nepal. *Annals of Forest Science* 61:603-606.
12. Pandey, M., **Gailing, O.**, Fischer, D., Hattemer, H. H. & R. Finkeldey. 2004. Characterization of microsatellite markers in sycamore (*Acer pseudoplatanus* L.). *Molecular Ecology Primer Notes* 4(2): 253-255.
13. **Gailing, O.**, Macnair, M.R. & K. Bachmann. 2004. QTL mapping for a trade-off between leaf and bud production in a recombinant inbred population of *Microseris douglasii* and *M. bigelovii* (Asteraceae, Lactuceae): a potential preadaptation for the colonization of serpentine soils. *Plant Biology* 6: 440-446.
14. Vornam, B., Decarli N. & **O. Gailing**. 2004. Spatial distribution of genetic variation in a natural beech stand (*Fagus sylvatica* L.) based on microsatellite markers. *Conservation Genetics* 5: 561-570.
15. **Gailing, O.** & G. von Wühlisch. 2004. Nuclear markers (AFLPs) and chloroplast microsatellites differ between *Fagus sylvatica* and *F. orientalis*. *Silvae Genetica* 53: 105-110.
16. Mottura, M.C, **Gailing, O.**, Verga, R.A. & R. Finkeldey. 2004. Efficiency of microsatellite enrichment in *Prosopis chilensis* using magnetic capture. *Plant Molecular Biology Reporter* 22: 251-258.
17. Curtu, A.-L., Finkeldey R. & **O. Gailing**. 2004. Comparative sequencing of a microsatellite locus reveals size homoplasy within and between European oak species (*Quercus* spp.). *Plant Molecular Biology Reporter* 22: 339-346.
18. Mottura, M.C, Finkeldey, R., Verga, R.A. & **O. Gailing**. 2005. Development and characterization of microsatellite markers for *Prosopis chilensis* and *P. flexuosa* and cross-species amplification. *Molecular Ecology Notes* 5 : 487-489.
19. Lara-Gómes, G., **Gailing, O.** & R. Finkeldey. 2005. Genetic variation in isolated Mexican populations of the endemic maple *Acer skutchii* Rehd. *Allgemeine Forst und Jagdzeitung* 176: 97-103.

20. Nascimento de Sousa, S., Reiner Finkeldey, R. & **O. Gailing**. 2005. Experimental verification of microsatellite null alleles in Norway spruce (*Picea abies* [L.] Karst.): implications for population genetic studies. *Plant Molecular Biology Reporter* 23: 113-119.
21. **Gailing, O.**, Kremer, A., Steiner, W., Hattemer, H.H. & R. Finkeldey. 2005. Results on quantitative trait loci for flushing date in oaks can be transferred to different segregating progenies. *Plant Biology* 7: 516-525.
22. Luo, Z. W., Zhang, Z., Pandey, M., **Gailing, O.**, Hattemer, H.H. & R. Finkeldey. 2006. Modeling population genetic data in autotetraploid species. *Genetics* 172: 639-646.
23. Stefenon, V. M., **Gailing, O.** & R. Finkeldey. 2006. Phylogenetic relationship within genus *Araucaria* (Araucariaceae) assessed by means of AFLP fingerprints. *Silvae Genetica* 55: 45-52.
24. Indrioko, S., **Gailing, O.** & R. Finkeldey. 2006. Molecular phylogeny of Dipterocarpaceae in Indonesia based on chloroplast DNA. *Plant Systematics and Evolution* 261: 99-115.
25. Cao, C.-P., **Gailing, O.**, Siregar, I., Indrioko, S. & R. Finkeldey. 2006. Genetic variation at AFLPs for the Dipterocarpaceae and its relation to molecular phylogenies and taxonomic subdivisions. *Journal of Plant Research* 119: 553-558.
26. Cao, C.-P., Finkeldey, R., Siregar, I., Siregar, U. & **O. Gailing**. 2006. Genetic diversity within and among populations of *Shorea leprosula* Miq. and *S. parvifolia* Dyer (Dipterocarpaceae) in Indonesia detected by AFLPs. *Tree Genetics and Genomes* 2: 225-239.
27. Rachmayanti, Y., Leinemann, L., **Gailing, O.** & R. Finkeldey. 2006. Extraction, Amplification and Characterization of Wood DNA from Dipterocarpaceae. *Plant Molecular Biology Reporter* 24: 45-55.
28. **Gailing, O.**, Wachter, H., Schmitt, H.-P., Curtu, A.-L. & R. Finkeldey. 2007. Characterization of different proveniences of Slavonian pedunculate oaks (*Quercus robur* L.) in Münsterland (Germany) with chloroplast DNA markers: PCR-RFLPs and chloroplast microsatellites. *Allgemeine Forst und Jagdzeitung* 178: 85-90.
29. Curtu, A.L., **Gailing, O.**, Leinemann, L. & R. Finkeldey. 2007. Genetic variation and differentiation within a natural community of five oak species (*Quercus* spp.). *Plant Biology* 9:116-126.
30. Stefenon, V.M., **Gailing, O.** & R. Finkeldey. 2007. Effects of post-glacial expansion and recent fragmentation on the population structure of *Araucaria angustifolia* (Araucariaceae): evidence from nuclear microsatellite markers. *Plant Biology* 9: 516-525.
31. Papageorgiou, A. C., Vidalis, A., **Gailing, O.**, Tsiripidis, I., Hatziskakis, S. Boukos, S.; Alatsidas, S. & R. Finkeldey. 2008. Genetic variation of beech (*Fagus sylvatica* L.) in Rodopi (N.E.Greece). *European Journal of Forest Research* 127: 81-88.
32. Stefenon, V.M., **Gailing, O.** & R. Finkeldey. 2008. The role of gene flow in shaping genetic structures of the sub-tropical conifer species *Araucaria angustifolia*. *Plant Biology* 10: 356-364. Doi:10.1111/j.1438-8677.2008.00048.x.
33. **Gailing, O.**, Wachter, H., Heyder, J., Schmitt H.-P., & R. Finkeldey. 2007. Chloroplast DNA analysis in oak stands (*Quercus robur* L.) in North Rhine-Westphalia with presumably Slavonian origin: Is there an association between geographic origin and bud phenology? *Journal of Applied Botany and Food Quality* 81: 165-171.
34. Curtu, A. L., **Gailing, O.** & R. Finkeldey. 2007. Evidence for natural hybridization within a species-rich oak (*Quercus* spp.) community. *BMC Evolutionary Biology*. Doi:10.1186/1471-21-48-7-218.
35. **Gailing, O.** 2008. QTL analysis of leaf morphological characters in a *Quercus robur* full-sib family (*Q. robur* x *Q. robur* subsp. *slavonica*). *Plant Biology* 10: 624-634. Doi: 10.1111/j.1438-8677.2008.00063.x
36. Ekue, M.R.M, **Gailing, O.**, Hölscher, D., Sinsin, B. & R. Finkeldey. 2008. Leaf morphological and genetic variation of the vulnerable cycad *Encephalartos barteri* Carruthers ex Miquel ssp. *barteri* (Zamiaceae) in Benin: Implications for conservation. *Belgian Journal of Botany* 141: 78-94.
37. Stefenon, V.M., **Gailing, O.** & R. Finkeldey. 2008. Genetic structure of plantations and the conservation of genetic resources of Brazilian pine (*Araucaria angustifolia*). *Forest Ecology and Management* 255: 2718-2725. Doi:10.1016/j.foreco.2008.01.036.
38. Stefenon, V.M., **Gailing, O.**, Behling, H. & R. Finkeldey. 2008. Evidences of delayed size recovery in *Araucaria angustifolia* populations after post-glacial colonization of highlands in Southeastern Brazil. *Annals of the Brazilian Academy of Sciences* 80: 433-443.

39. **Gailing, O.**, Langenfeld-Heyser, R. Polle, A. & R. Finkeldey. 2008. QTL loci affecting stomatal density and growth in a *Quercus robur* progeny: implications for the adaptation to changing environments. *Global Change Biology* 14:1934-1946. doi:10.1111/j.1365-2486.2008.01621.x.
40. Finkeldey, R., Rachmayanti, Y., Nuroniah, H., Nguyen, N.P., Cao, C. & **O. Gailing**. 2008. Identification of the timber origin of tropical species by molecular genetic markers – the case of dipterocarps. *VTI Agriculture and Forestry Research* 321: 20-27.
41. Hatziskakis, S., Papageorgiou, A., **Gailing, O.** & R. Finkeldey. in press. High chloroplast haplotype diversity in Greek populations of beech (*Fagus sylvatica* L.). *Plant Biology*.
42. Cao, C.-P., **Gailing, O.**, Siregar, I., Siregar, U. & R. Finkeldey. In press. Genetic variation in nine *Shorea* species (Dipterocarpaceae) in Indonesia revealed by AFLPs. *Tree Genetics and Genomes*.
43. Rachmayanti, Y., Leinemann, L., **Gailing, O.** & R. Finkeldey. DNA from processed and unprocessed wood: factors influencing the isolation success. *Forensic Science International*.

#### *Books and book chapters*

- 1a. **Gailing, O.** 2000. Evolution diagnostischer Merkmale am Beispiel der evolutionären Reduktion der inneren Mikrosporangien innerhalb der Gattung *Microseris* (Asteraceae). Shaker-Verlag. 1-86.
- 2a. Bachmann, K. & **O. Gailing**. 2003. The genetic dissection of the stepwise evolution of morphological characters. Chapter 2 in: Stuessy, T.F., V. Mayer and E. Hörandl (eds.) *Deep Morphology: Toward a Renaissance of Morphology in Plant Systematics*. Koeltz, Königstein. S. 35-62.
- 3a. Finkeldey, R., Rachmayanti, Y. & **O. Gailing**. 2007. Molecular genetic tools for the identification of the origin of wood. In: Kües, U (ed) *Wood production, wood technology and biotechnological impacts*. pp 125-140. Universitätsverlag Göttingen, Göttingen.
- 4a. Finkeldey, R., **Gailing, O.**, Hattemer, H.H. & B. Vornam. 2007. Molekulare Analyse von Pflanzenteilen in der Forensik. In: Hermann, B and Hummel, S (eds) *Biologische Spurenkunde*. pp. 343-362. Springer-Verlag, Heidelberg.
- 5a. **Gailing, O.** Characterization of Oak Provenances: Genetic Analysis of Morphological and Potentially Adaptive Trait Variation. (Habilitationsschrift, at the Faculty of Forest Sciences and Forest Ecology).

#### *Other publications*

- 1b. **O. Gailing**. 2004. Untersuchungen zum Austriebszeitpunkt bei verschiedenen Eichenbeständen und in Kreuzungsnachkommenschaften. LOEBF- Mitteilungen. Berichte zur Fachtagung: Vitalität und genetische Variabilität der Eiche in Nordrhein-Westfalen. S. 28-29.
- 2b. Decarli N., Ziehe M., Vornam B. & **O. Gailing**. 2004. Diversidad Genética y Análisis de Paternidad en Rodales Puros y Mixtos de Haya Europea (*Fagus sylvatica* L.). Simposio internacional IUFRO.
- 3b. Wuehlisch, G. & **O. Gailing**. 2004. *Fagus orientalis* and *Fagus sylvatica* differ in nuclear markers (AFLPs), chloroplast microsatellites and leaf morphology. IUFRO, Tehran, Iran. S. 145 – 154.
- 4b. Indrioko S., Cao C.-P., Truong L.H., Siregar I, Siregar U Leinemann L., **Gailing O.** & R. Finkeldey. 2005. Studien zur genetischen Variation südostasiatischer Dipterocarpaceen als Grundlage für ihre Erhaltung. *Treffpunkt Biologische Vielfalt* 5: 235-239.
- 5b. Finkeldey R, **Gailing O.**, Leinemann L. & B. Vornam. 2005. Perspektiven für die Anwendung molekularer Genmarker in der Forstgenetik. *Tagungsbericht Teissendorf. Forum, Genetik, Wald, Forstwirtschaft*. S. 117-130.
- 6b. Stefenon V.M., **Gailing O.** & R. Finkeldey. 2005. Searching natural populations of *Araucaria angustifolia*: conservation strategies for forest genetic resources in southern Brazil. *Forstliche Genressourcen als Produktionsfaktor. Tagungsbericht der 26. Tagung der Arbeitsgemeinschaft Forstgenetik und Forstpflanzenzüchtung. Fuldata*. 222-228.
- 7b. Nascimento de Sousa, S., Finkeldey, R. & **O. Gailing**. 2005. Estimation of pollen parents contribution in stands of Norway spruce (*Picea abies* (L.) Karst.). *Forstliche Genressourcen als Produktionsfaktor. Tagungsbericht der 26. Tagung der Arbeitsgemeinschaft Forstgenetik und Forstpflanzenzüchtung. Fuldata*. 193-200.

8b. Vornam, B., **Gailing, O.** & R. Finkeldey. 2007. GABI-DIGENFOR: Wie lassen sich Waldbäume besser an den Klimawandel anpassen? *Genomexpress* 1 (März 2007). S. 27. ISBN 978-3-00-019953-0.

9b. Stefenon V.M., **Gailing O.** & R. Finkeldey. 2007. Recovery and conservation of Araucaria forest in Brazil through plantation's establishment. Tropentag 2007.

#### *Online Publication*

**Gailing, O.**, Leinemann, L. & R. Finkeldey. 2004. Molecular Tools for the Conservation of Forest Genetic resources. <http://aunp.forst.uni-goettingen.de/index.shtml>

#### *Book review*

**Gailing, O.** 1998. Book review: L'amélioration des plantes tropicales. André Charrier, Michel Jacquot, Serge Hamon, Dominique Nicolas. *Genetic Resources and Crop Evolution* 45:489.

#### *Lecture notes*

Finkeldey, R., **Gailing, O.** & L. Leinemann. Einführung in die Forstgenetik (Introduction to Forest Genetics). Institut für Forstgenetik und Forstpflanzenzüchtung. S. 1-334.

#### *Expert opinion*

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Curtu, A. L., **Gailing, O.** & R. Finkeldey. Pollen-mediated gene flow and hybridization in a mixed forest of oak species (*Quercus* spp.)

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