

Publications 2024

1	van der Maaten, Ernst & Stolz, Juliane & Thurm, Eric & Schroeder, Jens & Henkel, Andreas & Leinemann, Ludger & Profft, Ingolf & Voth, Wolfgang & van der Maaten-Theunissen, Marieke. (2024). Long-term growth decline is not reflected in crown condition of European beech after a recent extreme drought. <i>Forest Ecology and Management</i> . 551. https://doi.org/10.1016/j.foreco.2023.121516
2	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. <i>Plant Biotechnology Journal</i> 22:863-875. https://doi.org/10.1111/pbi.14229 .
3	Durodola, B., Blumenstein, K., Akinbobola, A., Kolehmainen, A., Chano, V., Gailing, O. & E. Terhonen. 2023. Beyond the surface: Exploring the mycobiome of Norway spruce under abiotic stress and with <i>Heterobasidion parviporum</i> . <i>BMC Microbiology</i> 23:350. https://doi.org/10.1186/s12866-023-03099-y
4	Jin, X., Zhao, K., Hu, J., Gailing, O., Zhou, L., Du, S., Han, Y. & S. Wang. 2024. PagMYB73A enhances poplar salt tolerance by facilitating adventitious roots elongation and stomata density. <i>Forestry Research</i> 4:e003. https://doi.10.48130/forres-0023-0032
5	Bruxaux, J., Zhao, W., Hall, D., Curtu, A.L., Androsiuk, P., Drouzas, A.D., Gailing, O., Konrad, H., Sullivan, A.R., Semerikov, V. & Z.-R. Wang. 2024. Low genetic differentiation across an entire continent: the Scots pine paradox. <i>New Phytologist</i> . http://doi.org/10.1111/nph.19563
6	Wang, S., Schneider, D., Hartke, T., Ballauff, J., Moura, C., Schulz, G., Li, Z.; Polle, A., Daniel, R., Gailing, O., Irawan, B., Scheu, S. & V. Krashevska. 2024. Optimising High-throughput sequencing data analysis, from gene database selection to the analysis of compositional data: A case study on tropical soil nematodes. <i>Frontiers in Ecology and Evolution</i> 12: 1168288. DOI 10.3389/fevo.2024.1168288.
7	Caré, O., Chano, V., Erley, M., Rogge, M. & O. Gailing. 2024. Circadian rhythm and redox homeostasis candidate genes showed association with shallow elevation in Norway spruce. <i>Plant Biology</i> 26: 508-520. doi:10.1111/plb.13642
8	Ciocîrlan, M.I.C., Elena Ciocîrlan; E., Chira, D., Radu, R.G., Păcurar, V.D., Beşliu, E., Grigoriadou Zormpa, O., Gailing, O. & A.L. Curtu. 2024. Large differences in bud burst and senescence between low and high-altitude European beech populations along an altitudinal transect in the South-Eastern Carpathians. <i>Forests</i> 15: 468. https://doi.org/10.3390/f15030468
9	Moosavi, S.J., Budde, K.B., Heurich, M., Mueller, M. & O. Gailing. 2024. Genetic variation of English yew (<i>Taxus baccata</i> L.) in the Bavarian Forest National Park, Germany. <i>European Journal of Forest Research</i> . https://doi.org/10.1007/s10342-024-01687-9
10	Nieves-Orduña, H.E., Müller, M., Krutovsky, K.V. & O. Gailing. 2024. Genotyping of cacao (<i>Theobroma cacao</i> L.) germplasm resources with SNP markers linked to agronomic traits reveals signs of selection. <i>Tree Genetics and Genomes</i> 20: 13. https://doi.org/10.1007/s11295-024-01646-w
11	Müller, M., Leuschner, C., Weithmann, G., Weigel, R., Bat-Enerel, B., Steiner, W. & O. Gailing. 2024. A genome-wide genetic association study reveals SNPs significantly associated with environmental variables and specific leaf area in European beech. <i>Physiologia Plantarum</i> 176: e14334. https://doi.org/10.1111/ppl.14334

12	Dominguez-Flores, T., Budde, K., Carlson, J.E. & O. Gailing. 2024. Distance dependent mating but considerable pollen immigration in an isolated <i>Quercus rubra</i> planting in Germany. <i>European Journal of Forest Research</i> 143: 1447-1460. https://doi.org/10.1007/s10342-024-01704-x
13	Dominguez-Flores, T., Chano, V. & O. Gailing. 2024. Identification of three large full-sib families of <i>Quercus rubra</i> for genetic mapping in an isolated planting outside species' range in Germany. <i>Silvae Genetica</i> 73: 79-84. https://doi.org/10.2478/sg-2024-0008
14	Götz, J., Leinemann, L., Gailing, O., Hardtke, A., & O. Caré. 2024. Development of a highly polymorphic chloroplast SSR set in <i>Abies grandis</i> with transferability to other conifer species –A promising toolkit for gene flow investigations. <i>Ecology and Evolution</i> 14: e11593. https://doi.org/10.1002/ece3.11593
15	Stein, F., Moura, C.C.M. & O. Gailing. 2024. Curating BOLD records via Bayesian phylogenetic assignments enables harmonization of regional subgeneric classifications and cryptic species detection within the genus <i>Tachina</i> (Diptera: Tachinidae). <i>Annals of the Entomological Society of America</i> 117 (5): 245-256. https://doi.org/10.1093/aesa/saae018
16	Lwila, A., Ammer, C., Gailing, O., Leinemann, L. & M. Mund. 2024. Root overlap and allocation of above- and belowground growth of European beech in pure and mixed stands of Douglas fir and Norway spruce. <i>Forest Ecosystems</i> 11: 100217. https://doi.org/10.1016/j.fecs.2024.100217
17	Götz, J., Caré, O., Beck, W., Gailing, O., Hosius, B., & L. Leinemann. 2024. A novel set of chloroplast SSR markers for the genus <i>Juglans</i> reveals within species differentiation. <i>Silvae Genetica</i> 73:120-125. https://doi.org/10.2478/sg-2024-0012
18	Poletto, T., Poletto, I., de Carvalhi Marques, C.E., de Sousa Silva, A.K, Kubenka, K., Chatwin, W.J., Gailing, O. & V. M. Stefenon. 2024. Towards a molecular genetic database for the certification of cultivars and genetic breeding of pecan nuts in Brazil. <i>Crop Breeding and Applied Biotechnology</i> 24(3): e493924310. http://dx.doi.org/10.1590/1984-70332024v24n3a35
19	Ferrari, R.C., Chano, V., Shrestha, K., Dominguez-Flores, T., Ridley, M., Fussi, B., Seidel, H., Gailing, O. & K.B. Budde. 2024. Transcriptional profiling of <i>Fraxinus excelsior</i> leaves during the early infection phase of ash dieback. <i>Journal of Plant Diseases and Protection</i> . https://doi.org/10.1007/s41348-024-01028-3
20	Paterno, G.B., Brambach, F., Guerrero-Ramirez, N., Zemp, D.C., Cantillo, A.F., Camarretta, N., Moura, C.C.M., Gailing, O., Ballauff, J., Polle, A., Schlund, M., Erasmi, S., Al-Amin Iddris, N., Khokthong, W., Sundawati, L., Irawan, B., Holscher, D. & H. Kreft. 2024. Diverse and larger tree islands promote native tree diversity in oil palm landscapes. <i>Science</i> 386:795-802. 10.1126/science.ado1629
21	Ndiaye, L., Diallo, A.M., Vu, G., Mueller, M., Ngom, D., Mbaye, T. & O. Gailing. 2024. Genetic diversity of populations of <i>Dalbergia melanoxylon</i> Guill. & Perr. in the Ferlo zone (Senegal) using chloroplast and nuclear microsatellite markers. <i>Genetic Resources and Crop Evolution</i> . 10.1007/s10722-024-02255-1
22	Cao, H.X., Michels, D., Vu, G.T.H. & O. Gailing. 2024. Applications of CRISPR Technologies in Forestry and Molecular Wood Biotechnology. <i>International Journal of Molecular Sciences</i> 25:11792. https://doi.org/10.3390/ijms252111792

23	Oliver Caré, Oleksandra Kuchma, Bernhard Hosius, Wolfgang Voth, Eric A. Thurm, Ludger Leinemann (2024). Patterns of genetic variation and the potential origin of sweet chestnut (<i>Castanea sativa</i> Mill.) stands far from its natural northern distribution edge. <i>Silvae Genetica</i> , https://doi.org/10.2478/sg-2023-0020
24	Eric Andreas Thurm, Ernst van der Maaten, Marieke van der Maaten-Theunissen, Juliane Stolz, Ingolf Profft, Jens Schröder, Ludger Leinemann, Andreas Henkel, Kai Jütte Buchenvitalitätsschwäche 2023 - Totgesagte leben länger! (2024). <i>AFZ</i> 6/2024, S. 36 -39.
25	Mackenthun G, Sickert A, Leinemann L, Hosius B, Caré O (2024). Morphologische und genetische Analysen von Ulmen im Auwald. <i>AFZ</i> 8/2024, S. 10 - 13.