

Publications 2018

1	Burger, K, Müller, M. & O. Gailing. 2018. Characterization of EST-SSRs for European beech (<i>Fagus sylvatica</i> L.) and their transferability to <i>Fagus orientalis</i> Lipsky, <i>Castanea dentata</i> Bork., and <i>Quercus rubra</i> L. <i>Silvae Genetica</i> 67:127-132.
2	Müller, M. & O. Gailing. 2018. Characterization of 20 new EST-SSR markers for northern red oak (<i>Quercus rubra</i> L.) and their transferability to <i>Fagus sylvatica</i> L. and six oak species of section <i>Lobatae</i> and <i>Quercus</i> . <i>Annals of Forest Research</i> 61:211-222.
3	Creyaufmüller, F.C., Chassignet, I., Delb, H., Dounavi, A., Gailing, O., Leinemann, L., Kreuzwieser, J., Teply-Szymanski, J. & B. Vornam. 2018. Terpene synthase genes in <i>Quercus robur</i> – gene characterization, expression and resulting terpenes due to cockchafer feeding. <i>Frontiers in Plant Science</i> 9: 1753.
4	Müller, M., Nelson, D. & O. Gailing. 2018. Analysis of environment-marker associations in American chestnut. <i>Forests</i> 9:695.
5	Gailing, O. & R. Zhang. 2018. Experimental evidence for selection against hybrids between two interfertile red oak species. <i>Silvae Genetica</i> 67:106-110.
6	Yucedag, C., Gailing, O., Bilir, N. & H.B. Özel. 2018. Growth traits of <i>Quercus macranthera</i> subsp. <i>sypirensis</i> populations in Turkey and their associations with environmental variables. <i>Fresenius Environmental Bulletin</i> 27:6362-6368.
7	Gailing, O., Kostick, S., Caré, O. & S. Khodwekar. 2018. Leaf morphological and genetic variation between <i>Quercus rubra</i> and <i>Quercus ellipsoidalis</i> - Comparison of sympatric and parapatric populations. <i>Annals of Forest Research</i> 61:81-94.
8	Eliades, N., Fady, B., Gailing, O., Leinemann, L. & R. Finkeldey. 2018. Significant patterns of fine-scale spatial genetic structure in a narrow endemic wind-dispersed tree species, <i>Cedrus brevifolia</i> Henry. <i>Tree Genetics and Genomes</i> 14:15.
9	Breidenbach N., O. Gailing, K. V. Krutovsky 2018 Development of novel polymorphic nuclear and chloroplast microsatellite markers in coast redwood (<i>Sequoia sempervirens</i>). <i>Plant Genetic Resources</i> https://doi.org/10.1017/S147926211800045X Published online: 04 December 2018 (IF = 0.712; Q2)
10	Simonov E., A. Lisachov, N. Oreshkova, K. V. Krutovsky 2018 The mitogenome of <i>Elaphe bimaculata</i> (Reptilia: Colubridae) has never been published: a case with the complete mitochondrial genome of <i>E. dione</i> . <i>Acta Herpetologica</i> 13(2): 87-91, doi: 10.13128/Acta_Herpetol-23394 (IF = 0.729; Q3)
11	Caré O., M. Müller, B. Vornam, A. M. Höltsken, K. Kahlert, K. V. Krutovsky, O. Gailing, L. Leinemann 2018 High morphological differentiation in crown architecture is weakly reflected in the population genetic structure of German Norway spruce stands. <i>Forests</i> 9(12): 752 doi: 10.3390/f9120752 https://www.mdpi.com/1999-4907/9/12/752/htm (IF = 1.956; Q1)
12	Polítov D.V., Belokon M.M., Mudrik E.A., Polyakova T.A., Sullivan A., Krutovsky K.V., 2018 Adaptive genetic structure in spruce populations. In Proceedings of the International Forum “Biotechnology: State of the Art and Perspectives”, pp. 762-763, May 23 - 25, 2018, Moscow, http://www.biomos.ru/conference/articles.htm
13	Semerikov V. L., Semerikova S. A., Krutovsky K. V. 2018 Development of mtDNA markers for Siberian conifers and their application in phylogeographic studies. Pp. 95-100. In Degen B,

	Krutovsky KV, Liesebach M (eds) Proceedings of German Russian Conference on Forest Genetics in Ahrensburg, November 21-23, 2017. Braunschweig: Johann Heinrich von Thünen-Institut, 148 p, Thünen Report 62, DOI:10.3220/REP1539855736000 (https://www.thuenen.de/media/publikationen/thuenenreport/Thuenen_Report_62.pdf)
14	Putintseva, Y. A., N. V. Oreshkova, E. I. Bondar, V. V. Sharov, D. A. Kuzmin, S. V. Makolov, Krutovsky K. V. 2018 Genomics for practical forestry: development of genome-wide markers for timber origin identification and other applications. Pp. 101-106. In Degen B, Krutovsky KV, Liesebach M (eds) Proceedings of German Russian Conference on Forest Genetics in Ahrensburg, November 21-23, 2017. Braunschweig: Johann Heinrich von Thünen-Institut, 148 p, Thünen Report 62, DOI:10.183220/REP1539855736000
15	Shestibratov K. A., O. Yu. Baranov, N. M. Subbotina, V. G. Lebedev, S. V. Panteleev, K. V. Krutovsky, V. E. Padutov 2018 Early detection and identification of the main fungal pathogens for resistance evaluation of new genotypes of forest trees. <i>Forests</i> 9(12): 732; https://doi.org/10.3390/f9120732 (IF = 1.956; Q1)
16	Lu M., C. M. Seeve, C. A. Loopstra, K. V. Krutovsky 2018 Exploring the genetic basis of gene transcript abundance and metabolite level in loblolly pine (<i>Pinus taeda</i> L.) using association mapping and network construction. <i>BMC Genetics</i> 19:100 https://doi.org/10.1186/s12863-018-0687-7 (IF = 2.469; Q1)
17	Cuervo-Alarcon L., M. Arend, M. Müller, C. Sperisen, R. Finkeldey, K. V. Krutovsky 2018 Genetic variation and signatures of natural selection in populations of European beech (<i>Fagus sylvatica</i> L.) along precipitation gradients. <i>Tree Genetics & Genomes</i> 14:84 https://doi.org/10.1007/s11295-018-1297-2 First Online: 30 October 2018 (IF = 1.829; Q1)
18	Semerikov, V.L., S.A. Semerikova, Y.A. Putintseva, V. V. Tarakanov, I. V. Tikhonova, A. I. Vidyakin, N.V. Oreshkova, and K.V. Krutovsky, 2018 Colonization history of Scots pine in Eastern Europe and North Asia based on mitochondrial DNA variation. <i>Tree Genetics & Genomes</i> 14:8 https://doi.org/10.1007/s11295-017-1222-0 (IF = 1.624 Q1)
19	Nawaz M. A., K. V. Krutovsky, M. Müller, O. Gailing, A. A. Khan, A. Buerkert, M. Wiehle 2018 Morphological and Genetic Diversity of Sea Buckthorn (<i>Hippophae rhamnoides</i> L.) in the Karakoram Mountains of Northern Pakistan. <i>Diversity</i> 10(3): 76; https://doi.org/10.3390/d10030076 (IF = 2.040; Q1)
20	Müller M., L. Cuervo-Alarcon, O. Gailing, Rajendra K.C., M. S. Chhetri, S. Seifert, M. Arend, K. V. Krutovsky, R. Finkeldey 2018 Genetic Variation of European Beech Populations and Their Progeny from Northeast Germany to Southwest Switzerland. <i>Forests</i> 9(8): 469. doi:10.3390/f9080469 . https://doi.org/10.3390/f9080469 (IF = 1.956; Q1)
21	Liu, C. L. C., O. Kuchma, K. V. Krutovsky 2018 Mixed-species versus monocultures in plantation forestry: Development, benefits, ecosystem services and perspectives for the future. <i>Global Ecology and Conservation</i> 15: e00419. doi: 10.1016/j.gecco.2018.e00419. https://doi.org/10.1016/j.gecco.2018.e00419 (IF = 1.81; Q2)
22	Kornienko I.V., Faleeva T.G., Oreshkova N.V., Grigoriev S.E., Grigoreva L.V., Simonov E.P., Kolesnikova A.I., Putintseva Yu.A., Krutovsky K.V. 2018 Complete mitochondrial genome of a woolly mammoth (<i>Mammuthus primigenius</i>) from Maly Lyakhovsky Island (New Siberian Islands, Russia) and its phylogenetic assessment. <i>Mitochondrial DNA Part B. Resources</i> 3(2): 596-598 http://dx.doi.org/10.1080/23802359.2018.1473721 (IF = 0.490; Q4)
23	Pavlov, I. N., Y. A. Litovka, T. V. Ryazanova, N. A. Chuprova, Y. A. Putintseva, K. V. Krutovsky, 2018 Pathogenic and wood-destroying properties of <i>Porodaedalea niemela</i> M. Fischer in the open woodlands of <i>Larix gmelinii</i> in the permafrost area. <i>Journal of Siberian Federal</i>

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24	Ali, H. B. M., A. Abubakari, M. Wiehle, K. V. Krutovsky, 2018 Gene-specific sex-linked genetic markers in date palm (<i>Phoenix dactylifera</i> L.). Genetic Resources and Crop Evolution 65(1): 1-10 https://doi.org/10.1007/s10722-017-0564-7 (IF = 1.294; Q1/2)
25	Breidenbach N., Rahayu S., Siregar I.Z., Siregar U.J., Hamzah, R. Finkeldey (2018) Genetic diversity of dominant plant species in tropical land-use systems in Sumatra, Indonesia. TROPICAL CONSERVATION SCIENCE (11): 1-14. DOI: 10.1177/1940082918813908
26	Eliades, N., Fady, B., Gailing, O., Leinemann, L. & R. Finkeldey. 2018. Significant patterns of finescale spatial genetic structure in a narrow endemic wind-dispersed tree species, <i>Cedrus brevifolia</i> Henry. Tree Genetics and Genomes 14:15.
27	Müller, M., Laura Cuervo-Alarcon, L., Gailing, O., Rajendra, K.C., Chhetri, M.S., Seifert, S., Arend, M., Krutovsky, K.V. & R. Finkeldey. 2018. Genetic variation of European beech populations and their progeny from northeast Germany to southwest Switzerland. Forests 9:469.
28	Gailing, O., Kostick, S., Caré, O. & S. Khodwekar. 2018. Leaf morphological and genetic variation between <i>Quercus rubra</i> and <i>Quercus ellipsoidalis</i> - Comparison of sympatric and parapatric populations. Annals of Forest Research 61:81-94.
29	Nawaz, M.A., Krutovsky, K.V., Mueller, M., Gailing, O., Khan, A.A., Buerkert, A., & M. Wiehle. 2018. Morphological and genetic diversity of sea buckthorn (<i>Hippophae rhamnoides</i> L.) in the Karakoram Mountains of northern Pakistan. Diversity 10:76.
30	Pavlov, I. N., Y. A Litovka, T. V. Ryazanova, N. A. Chuprova, Y. A. Putintseva, K. V. Krutovsky, 2018 Pathogenic and wood-destroying properties of <i>Porodaedalea niemela</i> M. Fischer in the open woodlands of <i>Larix gmelinii</i> in the permafrost area. Journal of Siberian Federal University. Biology 11(4)
31	Yucedag, C., Gailing, O., Bilir, N. & H.B. Özel. 2018 Growth traits of <i>Quercus macranthera</i> subsp. <i>sypirensis</i> populations in Turkey and their associations with environmental variables. Fresenius Environmental Bulletin 27:6362-6368.
32	Saskia C. Friedrich, José C. Hernández-Díaz, Ludger Leinemann, José A. Prieto-Ruíz, and Christian Wehenkel. 2018. Spatial Genetic Structure in Seed Stands of <i>Pinus arizonica</i> Engelm. and <i>Pinus cooperi</i> Blanco in the State of Durango, Mexico, For. Sci. 64(2):191–202
33	Tiebel, K.; Leinemann, L.; Hosius, B.; Frischbier, N.; Wagner, S. 2018. Natural restoration of disturbed forests by <i>Salix caprea</i> L. In: Muraoka, Y.; Tschirf, R. (Ed.): Ecology – Meeting the scientific challenges of a complex world. 48th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland. Book of Abstracts. Verhandlungen der Gesellschaft für Ökologie Band 47/48, Berlin/Vienna, p. 157. ISSN 0171-1113 https://www.gfoe-conference.de/download/Book_of_Abstracts.pdf
34	Hosius B, Leinemann L, Hewicker H-A und A Paul. 2018. Zur Marktsituation bei gebietseigenen Gehölzen - BMUB, rechtliche Lage und zertifizierende Stellen. Deutsche Baumschule 04/2018, 48-51.
35	Hewicker H-A, Hosius B, Leinemann L und A Paul 2018. Zur Marktsituation bei gebietseigenen Gehölzen - Naturschutz, Nachfrager und Wissenschaft. Deutsche Baumschule 03/2018, 44-47
36	Paul A, Hewicker H-A, Hosius B und L Leinemann 2018. Zur Marktsituation bei

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37	Voth W, Leinemann L und B Hosius. 2018. Genanalysen aus Roteichen in Mecklenburg-Vorpommern. AFZ-DerWald, 9/2018, 16-18.
38	Arenhövel W, Kahlert K, Frischbier N, Hosius B, und L. Leinemann. 2018. Thüringer Weiß-Tannen-Samenplantage „Vitzeroda“ erfolgreich etabliert. AFZ-DerWald, 5/2018, 61-64
39	Leinemann L, Hosius B, Bergmann F, Arenhövel W, Rogge M, Voth W und O Gailing. 2018. Analysen mit DNS-Genmarkern an Uralteichen in verschiedenen Regionen Deutschlands. Allgemeine Forst und Jagdzeitung, 11/12, S. 210-221.
40	Friedrich SC , Hernández-Díaz JC, Leinemann L, Prieto-Ruíz JA, and C Wehenkel. 2018. Spatial Genetic Structure in Seed Stands of Pinus arizonica Engelm. and Pinus cooperi Blanco in the State of Durango, Mexico. Forest Science, 64(2), 191-202.