

A) Peer-reviewed scientific articles

A 1. Journal articles

1. Neuvonen S., K. Saikkonen and J. Suomela (1990) The effects of simulated acid rain on the growth performance of the European pine sawfly (*Neodiprion sertifer*). *Scand. J. For. Res.* 5: 541-550.
2. Neuvonen S., K. Saikkonen and E. Haukioja (1990) Simulated acid rain reduces the susceptibility of the European pine sawfly (*Neodiprion sertifer*) to its nuclearpolyhedrosis virus. *Oecologia* 83: 209-212.
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4. Saikkonen K. (1995) Nuclear polyhedrosis virus of the European pine sawfly, *Neodiprion sertifer* (Geoffroy)(Hymenoptera: Diprionidae) retains infectivity in soil treated with simulated acid rain. *J. Appl. Entomol.* 119: 495-499.
5. Saikkonen K., S. Neuvonen and P. Kainulainen (1995) Oviposition and larval performance of European pine sawfly in relation to irrigation, simulated acid rain and resin acid concentration in Scots pine. *Oikos* 74: 273-282.
6. Tammaru T., K. Ruohomäki and K. Saikkonen (1996) Components of male fitness in relation to body size in *Epirrita autumnata* (Lepidoptera, Geometridae). *Ecol. Entomol.* 21: 185-192.
7. Saikkonen K., M. Helander, H. Ranta, S. Neuvonen, T. Virtanen, J. Suomela and P. Vuorinen (1996) Endophyte-mediated interactions between woody plants and insect herbivores? *Entomologia Experimentalis et Applicata* 80: 269-171. (The same paper was published later in *Proceedings of the 9th International Symposium on Insect-Plant Relationships*, Studler E., Rowell-Rahier M. & Baur R. (Eds.), Kluwer Academic Publishers pp. 269-271. Thus, the paper is included also in "A 3. Other Peer-reviewed scientific articles")
8. Helander M.L., P. Vuorinen, K. Saikkonen and J. Lappalainen (1998) Evidence for resistance of mountain birch (*Betula pubescens* var. *czerepanovii*) to birch rust (*Melampsorium betulinum*). *Mycol. Res.* 102: 63-66.
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10. Saikkonen K., S.H. Faeth, M.L. Helander and T.J. Sullivan (1998) Fungal endophytes: a continuum of interactions with host plants. *Annu. Rev. Ecol. Syst.* 29: 319-343.
11. Saikkonen K., U. Ahonen-Jonnarh, A.M. Markkola, M. Helander, J. Tuomi, M. Roino and H. Ranta (1999) Defoliation and mycorrhizal symbiosis: a functional balance between carbon sources and below-ground sinks. *Ecol. Lett.* 2: 19-26.
12. Saikkonen K., M.L. Helander, S.H. Faeth, F. Schulthess and D. Wilson (1999) Endophyte-grass-herbivore interactions: the case of *Neotyphodium* endophytes in Arizona fescue populations. *Oecologia* 121: 411-420.
13. Saikkonen K., J. Ahlholm, M. Helander, S. Lehtimäki and O. Niemeläinen (2000) Endophytic fungi in wild and cultivated grasses in Finland. *Ecography* 23: 346-352.
14. Saikkonen K. (2000) Kentucky 31, far from home. *Science* 287: 1887a
15. Poteri, M., M.L. Helander, K. Saikkonen and P. Elamo (2001) Effect of *Betula pendula* clone and leaf age on *Melampsorium betulinum* rust infection in a field trial. *Forest Pathol.* 31: 177-185.
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17. Saikkonen K., M. Gyllenberg and D. Ion (2002) The persistence of fungal endophytes in structured grass metapopulations. *Proc. R. Soc. Lond. B. Biol. Sci.* 269: 1397-1403.
18. Ahlholm J., M.L. Helander, P. Elamo, I. Saloniemi, S. Neuvonen, S. Hanhimäki and K. Saikkonen (2002) Micro-fungi and invertebrate herbivores on birch trees: fungal mediated plant-herbivore interactions or responses to host quality? *Ecol. Lett.* 5: 648-655.

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21. Ahlholm J.U., M. Helander, S. Lehtimäki, P. Wäli and K. Saikkonen (2002) Vertically transmitted fungal endophytes: different responses of host-parasite systems to environmental conditions. *Oikos* 99: 173-183.
22. Saikkonen K., M.L. Helander and M. Rousi (2003) Endophytic foliar fungi in *Betula* spp. and their F1 hybrids. *Forest Pathol.* 33: 215-222.
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25. Saikkonen K., P. Wäli, M. Helander and S.H. Faeth (2004) Evolution of endophyte-plant symbioses. *Trends Plant Sci.* 9: 275-280.
26. Koivunen S., K. Saikkonen, T. Vuorisalo and P. Mutikainen (2004) Life-history traits of *Potentilla anserina* on heavy-metal polluted soils. *Evol. Ecol.* 18: 541 - 561
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30. Wäli P.R., M. Helander, O. Nissinen and K. Saikkonen (2006) Susceptibility of endophyte-infected grasses to winter pathogens (snow molds). *Can. J. Bot.* 84: 1043-1051.
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33. Helander M., P. Wäli, T. Kuuluvainen and K. Saikkonen (2006) Birch leaf endophytes in managed and natural boreal forests. *Can. J. For. Res.* 36: 3239-3245.
34. Wäli P.R., J. Ahlholm, M. Helander and K. Saikkonen (2007) Occurrence and genetic structure of the systemic grass endophyte *Epichloë festucae* in fine fescue populations. *Microb. Ecol.* 53: 20-29.
35. Helander M., J. Ahlholm, T.N. Sieber, S. Hinneri and K. Saikkonen (2007) Fragmented environment affects birch leaf endophytes. *New Phytol.* 175: 547-553.
36. Saikkonen K. (2007) Forest structure and fungal endophytes. *Fung. Biol. Rev.* 21: 67-74.
37. Huitu O., M. Helander, P. Lehtonen and K. Saikkonen (2008): Consumption of grass endophytes alters the ultraviolet spectrum of vole urine. *Oecologia* 156: 333-340.
38. Wäli P.R., M. Helander, O. Nissinen, P. Lehtonen and K. Saikkonen (2008) Endophyte infection, nutrient status of the soil and duration of snow cover influence the performance of meadow fescue in sub-arctic conditions. *Grass Forage Sci.* 63: 324-330.
39. Wäli P.R., M. Helander, I. Saloniemi, J. Ahlholm and K. Saikkonen. (2009) Variable effects of endophytic fungus on seedling establishment of fine fescues. *Oecologia* 159: 49-57.
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41. Saikkonen K., S. Saari and M. Helander (2010) Defensive mutualism between plants and endophytic fungi? *Fung. Div.* 41: 101-113.
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44. Saari S., M. Helander, P. Lehtonen, E. Wallius and K. Saikkonen (2010) Fungal endophytes reduce regrowth and affect competitiveness of meadow fescue in early succession of pastures. *Grass Forage Sci.* 65: 287-295.
45. Saari S., M. Helander, S. Faeth and K. Saikkonen (2010) The effects of endophytes on seed production and seed predation of tall fescue and meadow fescue. *Microb. Ecol.* 60: 928–934.
46. Vesterlund S.-R., M. Helander, S.H. Faeth, T. Hyvönen and K. Saikkonen (2011) Environmental conditions and host plant origin override endophyte effects on invertebrate communities. *Fung. Div.* 47: 109-118.
47. Vänninen I., S. Worner, E. Huusela-Veistola, T. Tuovinen, A. Nissinen and K. Saikkonen (2011) Recorded and potential alien invertebrate pests in Finnish agriculture and horticulture. *Agric. Food Sci.* 20: 96-114.
48. Ammunét T., T. Klemola and K. Saikkonen (2011) Impact of host plant quality on geometrid moth expansion on environmental and local population scales. *Ecography* 34: 848-855.
49. Saikkonen K., K. Taulavuori, T. Hyvönen, P.E. Gundel, C.E. Hamilton, I. Vänninen, A. Nissinen and M. Helander (2012) Climate change-driven species' range shifts filtered by photoperiodism. *Nature Climate Change* 2: 239–242, Doi:10.1038/Nclimate1430
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51. Ammunét T., T. Kaukoranta, K. Saikkonen, T. Repo and T. Klemola (2012) Invasive and resident defoliators in a changing climate: cold tolerance and predictions concerning extreme winter cold as a range limiting factor. *Ecol. Entomol.* 37: 212-220.
52. Haviola S., S. Neuvonen, M.J. Rantala, K. Saikkonen, J.-P. Salminen, I. Saloniemi, S. Yang and T. Ruuhola (2012) Genetic and environmental factors behind foliar chemistry of the mature mountain birch. *J. Chem. Ecol.* 38: 902–913.
53. Helander M., I. Saloniemi and K. Saikkonen (2012) Glyphosate-based herbicides in northern ecosystems. *Trends Plant Sci.* 17: 569-574.
54. Gundel P.E., C.E. Hamilton, C.E. Seal, M. Helander, M.A. Martínez-Ghersa, C.M. Ghersa, B.R. Vázquez de Aldana, I. Zabalgoageazcoa and K. Saikkonen (2012) Antioxidants in *Festuca rubra* L. seeds affected by the fungal symbiont *Epichloë festucae*. *Symbiosis* 58: 73-80.
55. Saikkonen K., K. Ruokolainen, O. Huitu, P.E. Gundel, T. Piltti, C.E. Hamilton and M. Helander (2013) Fungal endophytes help prevent weed invasions. *Agric. Ecosyst. Environ.* 165: 1-5.
56. Gundel P.E., L.A. Garibaldi, M. Helander and K. Saikkonen (2013) Symbiotic interactions as drivers of trade-offs in plants: effects of fungal endophytes on tall fescue. *Fung. Div.* 60: 5-14.
57. Gundel P.E., M. Helander, C. Casas, C.E. Hamilton, S.H. Faeth and K. Saikkonen (2013) *Neotyphodium* fungal endophyte in tall fescue (*Schedonorus phoenix*): A comparison of three Northern European wild populations and the cultivar Kentuky-31. *Fung. Div.* 60: 15-24.
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60. Gundel P.E., L.I. Pérez, M. Helander and K. Saikkonen (2013) Symbiotically modified organisms: non-toxic fungal endophytes in grasses. *Trends Plant Sci.* 18: 420-427.
61. Saikkonen K., P.E. Gundel and M. Helander (2013) Chemical ecology mediated by fungal endophytes in grasses. *J. Chem. Ecol.* 39: 962-968.
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63. Dirihan S., P. Terho, M. Helander and K. Saikkonen (2013) Efficient analysis of ploidy levels in plant evolutionary ecology. *Caryologia: Internat. J. Cytol. Cytosystem. Cytogen.* 66: 251–256.

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77. Helander M., T. Phillips, S.H. Faeth, L.P. Bush, R. McCulley, I. Saloniemi and K. Saikkonen (2016) Alkaloid quantities in endophyte-infected tall fescue are affected by the plant-fungus combination and environment. *J. Chem. Ecol.* 42: 118-126.
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80. Gundel P.E., M. Helander, L.A. Garibaldi, B.R. Vázquez-de-Aldana, I. Zabalgoeazcoa and K. Saikkonen (2016) Role of foliar fungal endophytes in litter decomposition among species and population origins. *Fung. Ecol.* 21: 50-56.
81. Gundel P.E., M. Helander, L.A. Garibaldi, B.R. Vázquez-de-Aldana, I. Zabalgoeazcoa and K. Saikkonen (2016) Data on litter quality of host grass plants with and without fungal endophytes. *Data in Brief* 7: 1469-1472.
82. Fält-Nardmann J., T. Klemola, M. Roth, K. Ruohomäki and K. Saikkonen (2016) Northern geometrid forest pests (Lepidoptera: Geometridae) hatch at lower temperatures than their southern conspecifics: implications of climate change. *Europ. J. Entomol.* 113: 337-343.

83. Compant S., K. Saikkonen, B. Mitter, A. Campisano and J. Mercado-Blanco (2016) Editorial special issue: Soil, Plants and Endophytes *Plant and Soil* 405: 1-11. DOI 10.1007/s11104-016-2927-9
84. Mikola J., M. Helander and K. Saikkonen (2016) No effects of *Epichloë* endophyte infection on nitrogen cycling in meadow fescue (*Schedonorus pratensis*) grassland. *Plant Soil* 405: 257-264. DOI 10.1007/s11104-015-2711-2
85. Saikkonen K., T.D. Phillips, S.H. Faeth, R.L. McCulley, I. Saloniemi and M. Helander (2016) Performance of endophyte infected tall fescue in Europe and North America. *PLoS ONE* 11(6):e0157382. doi:10.1371/journal.pone.0157382.
86. Dirihan S., M. Helander, H. Väre, P.E. Gundel, L.A. Garibaldi, J.G.N. Irisarri, I. Saloniemi and K. Saikkonen (2016) Geographic variation in *Festuca rubra* L. ploidy levels and systemic fungal endophyte frequencies. *Plos One* 11(11): E0166264. Doi:10.1371/Journal.Pone.0166264
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88. Gundel P.E., M. Helander, L.A. Garibaldi, B.R. Vázquez-de-Aldana, I. Zabalgoeazcoa and K. Saikkonen (2017) Direct and indirect effects of the fungal endophyte *Epichloë uncinatum* on litter decomposition of the host grass, *Schedonorus pratensis*. *Plant Ecology* 218: 1107–1115.
89. Fält-Nardmann J.J.J., T. Klemola, K. Ruohomäki, P. Niemelä, R. Mechthild and K. Saikkonen (2018) Local adaptations and phenotypic plasticity may render gypsy moth and nun moth future pests in northern European boreal forests. *Can. J. For. Res.* 48: 265-276.
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91. Fält-Nardmann J.J.J., O.-P. Tikkanen, K. Ruohomäki, L.-F. Otto, R. Leinonen, J Pöyry, K. Saikkonen, and S. Neuvonen (2018) The recent northward expansion of *Lymantria monacha* in relation to realized changes in temperatures of different seasons. *Forest Ecology and Management* 427: 96-105.
92. von Cräutlein M, P.H. Leinonen, H. Korpelainen, M. Helander, H. Väre and K. Saikkonen (2019) Post-glacial colonization history reflects in the genetic structure of natural populations of *Festuca rubra* in Europe. *Ecology and Evolution* .
93. Saravesi K., A. Markkola, E. Taulavuori, I. Syvänperä, O. Suominen, M. Suokas, K. Saikkonen and K. Taulavuori (2019) Impacts of experimental warming and northern light climate on growth and root fungal communities of Scots pine populations. *Fungal Ecology* .
94. Nissinen R., M. Helander, M. Kumar and K. Saikkonen (2019) Heritable *Epichloë* symbiosis shapes plant fungal but not bacterial communities. *Scientific Reports* .
95. Leinonen P.H., M. Helander, B.R. Vázquez-de-Aldana, I. Zabalgoeazcoa, K. Saikkonen (tentatively accepted) Local adaptation in natural European host grass populations with asymmetric symbiosis. *Plos One* .
96. Hagner M., J. Mikola, I. Saloniemi, K. Saikkonen and M. Helander (tentatively accepted) Effects of a glyphosate-based herbicide on soil animal trophic groups and associated ecosystem functioning in a northern agricultural field. *Scientific Reports* .

A 2. Other Peer-reviewed scientific articles (book chapters, conference proceedings):

1. Saikkonen K. and S. Neuvonen (1993) European pine sawfly and microbial interactions mediated by the host plant. In: Wagner M. and Raffa K. (Eds.) *Sawfly Life History Adaptation to Woody Plants*. Academic Press, Inc. San Diego, pp. 431-450.
2. Faeth S.H., K. Saikkonen, M. Helander, T.J. Sullivan and J.L. Rambo (1999) Endophytic fungi in native populations of grasses: Against conventional wisdom of the anti-herbivore mutualism and the plant diversity hypothesis. *Am. Zool.* 39 (5): 120A-121A.
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4. Saikkonen K., M. Helander, H. Ranta, S. Neuvonen, T. Virtanen, J. Suomela and P. Vuorinen (1996) Endophyte-mediated interactions between woody plants and insect herbivores? Studler E., Rowell-Rahier M. and Baur R. (Eds.) *Proceeding of the 9th International Symposium on Insect-Plant Relationships*, Kluwer Academic Publishers pp. 269-271. (The same paper was first published in *Entomologia Experimentalis et Applicata* 80: 269-171. Thus the paper is included also in "A 1. Journal Articles")
5. Faeth S.H. and K. Saikkonen (2007) Variability is the nature of the endophyte-grass interaction. *Proceedings of the 6th International Symposium on Fungal Endophytes of Grasses "From Lab to Farm"* Christchurch, New Zealand March 25-28, 2007, A.J. Popay and E.R. Thom (Eds.), *Grassland Research and Practice Series No. 13*, New Zealand Grassland Association, Dunedin, NZ, ISSN 0110-8581.
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8. Saikkonen, K. and M. Helander (2012) Endophyte mediated plant-herbivore interactions or cross resistance to fungi and insect herbivores. *Proceedings of the fourth international workshop on the genetics of host-parasite interactions in forestry: Disease and insect resistance in forest trees*. Eugene, Oregon, USA, July 31 - August 5, 2011. Sniezko R.A., A.D. Yanchuk, J.T. Kliejunas, K.M. Palmieri, J.M. Alexander, S.J. Frankel (tech. cords). *Gen. Tech. Rep. PSW-GTR-240*. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture. 372 p.
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3. Faeth, S.H., D. Wilson, M.L. Helander, K. Saikkonen, F. Schulthess and T.J. Sullivan (1997) *Neotyphodium* in native populations of Arizona fescue: a nonmutualist? In: C. W. Bacon, N. S. Hill, (Eds.). *Neotyphodium/grass interactions*. Plenum Press, New York, 165-166.
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> 40 conference papers, posters, abstracts and reports

C Publications intended for professional communities

1. Wäli P.R., M. Helander and K. Saikkonen (2011) Manipulation of Epichloë/Neotyphodium -endophyte infection in grasses: elimination of endophytes by heat treatment from seeds and inoculation of seedlings with endophyte hyphae. Pages 64-67. In: Pirttilä, A.M. and S. Sorvari (Eds.) Prospects and Applications for Plant-Associated Microbes. A Laboratory Manual, Part B: Fungi. BioBien Innovations (BBI)(Finland). ISBN 978-952-99302-6-5
2. Wäli P.R., M. Helander and K. Saikkonen (2011) Manipulation of Epichloë/Neotyphodium-endophyte infection in pooid grasses. Pp. 197-204. In: Pirttilä, A.M. & Sorvari, S. (Eds.) Prospects and Applications for Plant-Associated Microbes. A Laboratory Manual, Part B: Fungi. BioBien Innovations (BBI)(Finland). ISBN 978-952-99302-6-5

D Theses

1. Saikkonen K. (1994) Interactions among the European pine sawfly, its host and its natural enemies: consequences of environmental changes. PhD Thesis. Reports from the Department of Biology, University of Turku. No 39.