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Publications:

Trappe, J. M., Jumpponen, A., and Cázares, E. 1996. NATS truffle and truffle like fungi 5: *Tuber lyonii* (= *T. texense*), with a key to the spiny spored *Tuber* species groups. Mycotaxon 60: 365-372.

Jumpponen, A., N.S. Weber, J.M. Trappe and E. Cázares. 1997. Distribution and ecology of an ascomycete, *Sarcoleotia globosa* (Sommerf.:Fr.) Korf, in North America. Canadian Journal of Botany 75: 2228-2231.

Jumpponen, A. and Trappe, J.M. 1998. Performance of *Pinus contorta* inoculated with two strains of root endophytic fungus *Phialocephala fortinii*: effects of resynthesis system and glucose concentration. Canadian Journal of Botany 76:1205-1213.

Jumpponen, A., Mattson, K., Trappe, J.M. and Ohtonen, R. 1998. Effects of established willows on primary succession on Lyman Glacier Forefront: evidence for simultaneous canopy inhibition and soil facilitation. Arctic and Alpine Research 30:31-39.

Jumpponen, A. and Trappe, J.M. 1998. Dark-septate root endophytes: a review with special reference to facultative biotrophic symbiosis. New Phytologist 140:295-310.

Jumpponen, A., Mattson, K.G., and Trappe, J.M. 1998. Mycorrhizal functioning of *Phialocephala fortinii*: interactions with soil nitrogen and organic matter. Mycorrhiza 7:261-265.

Hector, A., Schmid, B., Beierkuhlein, C. Caldeira, M.C., Diemer, M., Dimitrakopoulos, P.G., Finn, J., Freitas, H., Giller, P.S., Good, J., Harris, R., Högberrg, P., Huss-Danell, K., Joshi, J., Jumpponen, A., Körner, C., Leadley, P.W., Loreau, M., Minns, A., Mulder, C.P.H., O'Donovan, G.O., Otway, S.J., Pereira, J.S., Prinz, A., Read, D.J., Scherer-Lorenzen, M., Schulze, E.-D., Siamantziouras, A.-S.D. Spehn, E., Terry, A.C., Troumbis, A.Y., Woodward, F.I., Yachi, S. & Lawton, J.H. 1999. Plant Diversity and Productivity Experiments in European Grasslands. Science 286:1123-1127.

Jumpponen, A. 1999. Spatial distribution of discrete phenotypes of *Phialocephala fortinii* on a glacier forefront as inferred from RAPD markers. New Phytologist 141:333-344.

Jumpponen, A., Trappe, J.M. and Cázares, E. 1999. Ectomycorrhizal fungi in Lyman Lake Basin: a comparison between primary and secondary successional sites. Mycologia 91: 575-582.

Jumpponen, A., Väire, H., Mattson, K.G., Ohtonen, R., and Trappe, J.M. 1999. Characterization of the safe sites for pioneers in primary succession on recently deglaciated glacier forefront. Journal of Ecology 87:98-105.

- Ohtonen, R., Fritze, H., Pennanen, T., Jumpponen, A., and Trappe, J.M. 1999. Ecosystem properties and microbial community changes in primary succession on a glacier forefront. *Oecologia* 119:239-246.
- Caldwell, B.A., Jumpponen, A. and Trappe, J.M. 2000. Utilization of major detrital substrates by dark-septate, root endophytes. *Mycologia* 92:230-232.
- Hector, A., Schmid, B., Beierkuhlein, C., Caldeira, M.C., Diemer, M., Dimitrakopoulos, P.G., Finn, J., Freitas, H., Giller, P.S., Good, J., Harris, R., Högberg, P., Huss-Danell, K., Joshi, J., Jumpponen, A., Körner, C., Leadley, P.W., Loreau, M., Minns, A., Mulder, C.P.H., O'Donovan, G.O., Otway, S.J., Pereira, J.S., Prinz, A., Read, D.J., Scherer-Lorenzen, M., Schulze, E.-D., Siamantziouras, A.-S.D. Spehn, E., Terry, A.C., Troumbis, A.Y., Woodward, F.I., Yachi, S. & Lawton, J.H. 2000. No consistent effect of plant diversity on productivity – response. *Science* 289:1255a.
- Joshi, J., Schmid, B., Caldeira, M.C. Dimitrakopoulos, P.G., Good, J., Harris, R., Hector, A., Huss-Danell, K., Jumpponen, A., Minns, A., Mulder, C.P.H., Pereira, J.S., Prinz, A., Scherer-Lorenzen, M., Siamantziouras, A.-S.D. Terry, A.C., Troumbis, A.Y., and Lawton, J.H. 2001. Local adaptation enhances performance of common plant species. *Ecology Letters* 4:536-544.
- Jumpponen, A. 2001. Dark septate endophytes – are they mycorrhizal? *Mycorrhiza* 11:207-211.
- Jumpponen, A., Mulder, C.P.H., Högberg, P., and Huss-Danell, K. 2002. Interspecific and spatial differences in N uptake in monocultures and two-species mixtures in north European grasslands. *Functional Ecology* 16:454-461.
- Jumpponen, A., Trappe, J.M. and Cázares, E. 2002. Occurrence of ectomycorrhizal fungi on the forefront of retreating Lyman Glacier (Washington, U.S.A.) in relation to time since deglaciation. *Mycorrhiza* 12:43-49.
- Mulder, C.P.H., Jumpponen, A., Högberg, P., and Huss-Danell, K. 2002. How plant diversity and legumes affect nitrogen dynamics in experimental grassland communities. *Oecologia* 133: 412-421.
- Spehn, E.M., Scherer-Lorenzen, M., Schmid, B., Hector, A., Caldeira, M.C., Dimitrakopoulos, P.G., Finn, J.A., Jumpponen, A., O'Donovan, G., Pereira, J.S., Schulze, E.-D., Troumbis, A.Y. and Körner, C. 2002. The role of legumes as a component of biodiversity in a cross-European study of grassland biomass nitrogen. *Oikos* 98:205-218.
- Jumpponen, A. 2003. Soil fungal community assembly in a primary successional glacier forefront ecosystem as inferred from analyses of rDNA sequences. *New Phytologist* 158: 569-578.
- Jumpponen, A., Neises, D.L. and Newsham, K.K. 2003. Direct PCR and cloning characterization of ascomycetes inhabiting the rhizoid environment of the liverwort *Cephaloziella varians* in Antarctica. *Mycologia* 95(3): 457–466.

- Cazares, E. Trappe, J.M. and Jumpponen, A. 2004. Mycorrhiza–Plant Colonization Patterns on a Subalpine Glacier Forefront as a Model System of Primary Succession. *Mycorrhiza* In Press.
- Jumpponen, A., 2004. Soil fungal communities underneath willow canopies on a primary successional glacier forefront: rDNA sequence results can be affected by primer selection and chimeric data. *Microbial Ecology* In Press
- Jumpponen, A., Claridge, A.W., Trappe, J.M., Lebel, T., Claridge, D.L. 2004. Ecological relationships among hypogeous fungi and trees: inferences from association analysis integrated with habitat modeling. *Mycologia* 96: 510-525.
- Söderberg, K. Probanza, Jumpponen, A. Bååth, E. 2004. The microbial community in the rhizosphere determined by community-level physiological profiles (CLPP) and direct soil- and cfu-PLFA techniques. *Applied Soil Ecology* 25: 135-145.
- Tarvainen, O., Markkola, A.M., Ahonen-Jonnarth, U., Jumpponen, A. and Strömmer, R. 2004. Changes in ectomycorrhizal colonization and root peroxidase activity in *Pinus sylvestris* nursery seedlings planted in forest humus. *Scandinavian Journal of Forest Research* In Press.
- Trowbridge, J. and Jumpponen, A. 2004. Fungal colonization of shrub willow roots at the forefront of a receding glacier. *Mycorrhiza* In Press.
- Cazarés, E. Trappe, J.M. and Jumpponen, A. 2005. Mycorrhiza–plant colonization patterns on a subalpine glacier forefront as a model system of primary succession. *Mycorrhiza* 15: 405-416.
- Hector, A., E. M. Spehn, J. Joshi, M. Scherer-Lorenzen, B. Schmid, E. Bazeley-White, C. Beierkuhnlein, M. C. Caldeira, M. Diemer, P. G. Dimitrakopoulos, J. Finn, H. Freitas, P. S. Giller, J. Good, R. Harris, P. Högberg, K. Huss-Danell, A. Jumpponen, C. Körner, P. W. Leadley, M. Loreau, A. Minns, C. P. H. Mulder, G. O'Donovan, S. J. Otway, J. S. Pereira, A. Prinz, D. J. Read, E.-D. Schulze, A.-S. D. Siamantziouras, A. C. Terry, A. Y. Troumbis, F. I. Woodward, S. Yachi, and J. H. Lawton. 2005. Ecosystem effects of the manipulation of plant diversity in European grasslands: data from the BIODEPTH project. *Ecological Archives* M075-001-S1.
- Hobbie, E., Jumpponen, A., Trappe, J.M. 2005. Foliar and fungal $^{15}\text{N}:$ ^{14}N ratios reflect development of mycorrhizae and nitrogen supply during primary succession: testing analytical models. *Oecologia*, 146: 258-268.
- Jumpponen, A. and Egerton-Warburton, L.M. 2005. Mycorrhizal fungi in successional environments – a community assembly model incorporating host plant, environmental and biotic filters. *In: The Fungal Community*, ed. Dighton, J. White, J.F. and Oudemans, P. CRC Press, New York. 139-180.
- Jumpponen, A. and Johnson, L.C. 2005. Can rDNA analyses of diverse fungal communities in soil and roots detect effects of environmental manipulations – a case study from tallgrass

prairie. *Mycologia* 97: 1177-1194.

Jumpponen, A., Mulder, C.H.P., Huss-Danell, K., and Högberg, P. 2005. Winners and losers in herbaceous plant communities: insights from foliar carbon isotope composition in monocultures and mixtures. *Journal of Ecology* 93:1136-1147.

Jumpponen, A., Trowbridge, J., Mandyam, K.G. and Johnson, L.C. 2005. Nitrogen enrichment causes minimal changes in arbuscular mycorrhizal colonization but shifts community composition – evidence from rDNA data. *Biology and Fertility of Soils*, 41: 217-224.

Mandyam, K. and Jumpponen, A. 2005. Abundance and possible functions of the root-colonising dark septate endophytic fungi. In: *The Missing Lineages: Phylogeny and ecology of endophytic and other enigmatic root-associated fungi*, ed. Summerbell, R. Currah, R.S. and Sigler, L. *Studies in Mycology* 53: 173-189.

Palmborg, C., Scherer-Lorenzen, M., Jumpponen, A., Carlsson, G. Huss-Danell, K. and Högberg, P. 2005. Inorganic soil nitrogen under grassland plant communities of different species composition and diversity. *Oikos* 110: 271-282.

Spehn, E. M., A. Hector, J. Joshi, M. Scherer-Lorenzen, B. Schmid, E. Bazeley-White, C. Beierkuhnlein, M. C. Caldeira, M. Diemer, P. G. Dimitrakopoulos, J.A. Finn, H. Freitas, P. S. Giller, J. Good, R. Harris, P. Högberg, K. Huss-Danell, A. Jumpponen, J. Koricheva, P. W. Leadley, M. Loreau, A. Minns, C. P. H. Mulder, G. O'Donovan, S. J. Otway, C. Palmborg, J. S. Pereira, A. B. Pfisterer, A. Prinz, D. J. Read, E-D. Schulze, A-S. D. Siamantziouras, A. C. Terry, A. Y. Troumbis, F. I. Woodward, S. Yachi, J. H. Lawton. 2005. Ecosystem effects of biodiversity manipulations in European grasslands, *Ecological Monographs*, 75: 37-63.

Gentili, F. and Jumpponen, A. 2005. Potential and possible uses of bacterial and fungal biofertilizers. In *Handbook of Biofertilizers*. Ed. Rai, M.K. and Basra, A. Haworth, New York. Pp. In Press.

Trappe, J.M., Claridge, A.W., Jumpponen, A. 2005. Fire, hypogeous fungi and mycophagous marsupials. *Mycological research* 109: 516-518.

Hector, A., J. Joshi, M. Scherer-Lorenzen, B. Schmid, E. M. Spehn, L. Wacker, M. Weilenmann, E. Bazeley-White, C. Beierkuhnlein, M. C. Caldeira, P. G. Dimitrakopoulos, J. Finn, H. Freitas, K. Huss-Danell, A. Jumpponen, P. W. Leadley, M. Loreau, C. P. H. Mulder, C. Nesshöfer, C. Palmborg, D. J. Read, D. Siamantziouras, A. C. Terry, A. Y. Troumbis. 2007. Biodiversity and ecosystem functioning: reconciling the results of experimental and observational studies. *Functional Ecology* 21: 998-1002.

Jumpponen, A. 2007. Soil fungal communities underneath willow canopies on a primary successional glacier forefront: rDNA sequence results can be affected by primer selection and chimeric data. *Microbial Ecology* 53: 233-246.

Mandyam, K. and Jumpponen, A. 2008. Seasonal and temporal dynamics of arbuscular mycorrhizal and dark septate endophytic fungi in a tallgrass prairie ecosystem are

minimally affected by nitrogen enrichment. *Mycorrhiza* 18: 145-155.

Jumpponen, A. 2008. Analysis of rhizosphere fungal communities using rRNA and rDNA. In: The mycorrhiza manual. Ed. Varma, A. Springer-Verlag, Berlin. *In Press*

Kageyama, S.A., Mandyam, K.G. and Jumpponen, A. 2008. Diversity, function and potential applications of the root-associated endophytes. In: Mycorrhiza – State of the art, genetics and molecular biology, eco-function, biotechnology, ecophysiology, structure and systematics. Ed. Varma, A. Springer-Verlag, Berlin. p. 29-59.

Jumpponen, A. and Jones, K.L. 2010. Seasonally dynamic fungal communities in *Quercus macrocarpa* phyllosphere differ among urban and rural environments. *New Phytologist* *In Press*

Jumpponen, A., Jones, K.L., Mattox, J.D. and Yeage, C. 2010. Massively parallel 454-sequencing of *Quercus* spp. ectomycorrhizosphere indicates differences in fungal community composition, richness, and diversity among urban and rural environments *Molecular Ecology* *In Press*

Mandyam, K. and Jumpponen A. 2010. Isolation and morphological and metabolic characterization of common endophytes in annually burned tallgrass prairie. *Mycologia* *In Press*

Walker, J.F., Johnson, L.C., Simpson, N.B., Bill, M. and Jumpponen, A. 2010. Application of fungistatics in soil reduces N uptake by an arctic ericoid shrub (*Vaccinium vitis-idaea*). *Mycologia*, *In Press*

Carlsson, G., Palmberg, C., Jumpponen, A., Scherer-Lorenzen, M., Högberg, P. and Huss-Danell, K. 2009. N₂ fixation in three perennial *Trifolium* species in experimental grasslands of varied plant species richness and composition. *Plant Ecology* 205: 87-104. DOI 10.1007/s11258-009-9600-9

Jumpponen, A. and Jones, K.L. 2009. Massively parallel 454-sequencing of *Quercus macrocarpa* phyllosphere fungal communities indicates reduced richness and diversity in urban environments. *New Phytologist* 184: 438-448.

Abstracts:

Jumpponen, A. 1993. Ectomycorrhizal status of seedlings planted on clear-cuts with poor reforestation history in Central- and Northern-Sweden. M.Sc. dissertation, University of Joensuu, Joensuu, Finland, 73 pp. In Finnish.

Trappe, J. M. and Jumpponen, A. 1995. Identification of ectomycorrhizal fungi: a starting point for their biotechnology. In Stocchi, V.(ed.), *Biotechnology of ectomycorrhizae: molecular approaches*. Urbino. Plenum Press, New York. 25-34.

Caldwell, B.A., Trappe, J.M. and Jumpponen, A. 1996. Physiological characters of dark septate

- root endophytes. First International Conference on Mycorrhizae, August 4–8, 1996, Berkeley, California, USA. Poster and an abstract.
- Markkola, A.M., Tarvainen, O., Ahonen-Jonnarth, U. Jumpponen, A. and Ohtonen, R. 1996. Root peroxidase activity in ectomycorrhizal scots pine seedlings in polluted environment. First International Conference on Mycorrhizae, August 4–8, 1996, Berkeley, California, USA. Poster and an abstract.
- Smith, J.E., A. Jumpponen, M.J. Larsen and D. McKay. 1996. Ecology and taxonomy of *Piloderma* spp.: a golden indicator of old-growth forest soil legacy. First International Conference on Mycorrhizae, August 4–8, 1996, Berkeley, CA, U.S.A. Poster and an abstract.
- Trappe, J. M., Cázares, E., and Jumpponen, A. 1996. Permafrozen, 17,600-year-old ecto- and VA-mycorrhizae, dark septate endophytes and *Glomus* spores from the Beringian land bridge, Seward Peninsula, Alaska. First International Conference on Mycorrhizae, August 4–8, 1996, Berkeley, California, USA. Poster and an abstract.
- Jumpponen, A.M. and Trappe, J.M. 1996. Population structure of *Phialocephala fortinii* on a receding glacier forefront. *In: Azcon-Aguilar, C. and Barea, J.M. (eds.) Mycorrhizas in integrated systems. From genes to plant development. Proc 4th Eur Symp on Mycorrhizas, Granada, Spain, July 11-14, 1994, 128-130.*
- Jumpponen, A. 1998. Primary succession on a receding glacier forefront – with special emphasis on root-colonizing fungi. Ph.D. dissertation, Oregon State University, Corvallis, 258 pp.
- Jumpponen, A., Cázares, E., Trappe, J.M., Camacho, F., and Platt J. 1998. Ectomycorrhizal fungi in Lyman Lake Basin: a comparison between primary and secondary successional sites. Second International Conference on Mycorrhizae, Uppsala 5.-10.7.1998. Poster and an abstract.
- Jumpponen, A. and Trappe, J.M. 1998. Dark, septate root endophytes – who are they and what do they do? Second International Conference on Mycorrhizae, Uppsala 5.-10.7.1998. Oral presentation and an abstract.
- Jumpponen, A. 1999. Nonmycorrhizal root endophytes. XVI International Botanical Congress, St. Louis, Missouri, August 1-7, 1999. Oral presentation and an abstract.
- Joshi, J., Schmid, B., Bazeley-White, E., Caldeira, M.C., Dimitrakopoulos, P.G., Good, J., Harris, R., Hector, A., Jumpponen, Minns, A., Mulder, C.H.P., Prinz, A., Scherer-Lorenzen, M., Siamantziouras, A.S.D., Terry, A.C., Huss-Danell, K., Pereira, J.S., Troumbis, A.Y. & Lawton J.H. 2000. Local specialisation of forage plants in European grasslands. BES Special Symposium, London, U.K. 4.-9.9. 2000. Jumpponen, A., Newsham, K.K. & Neises, D.J. 2001 Characterization of ascomycetous fungi colonizing the liverwort *Cephaloziella exiliflora* in the Antarctic using direct PCR and cloning. Third International Conference on Mycorrhizae, July 8-13, 2001, Adelaide, Australia. Poster and an abstract.

- Mulder, C.P., Jumpponen, A., Högberg, P., & Huss-Danell, K. 2001. The effects of species richness and legume biomass on nitrogen dynamics in grassland communities: evidence from stable isotopes. 86th annual meeting of the Ecological Society of America, August 5–10, 2001, Madison, Wisconsin USA. Poster and an abstract .
- Jumpponen, A. 2002. Non-mycorrhizal root endophytes - aspects on their ecology. International Mycological Congress, August 11-17, Oslo, Norway. Symposium presentation and an abstract.
- Jumpponen, A., Neises, D.N. and Johnson, L.C. 2002. Soil and rhizosphere fungal communities in tallgrass prairie characterized by PCR and downstream cloning. Annual Meeting of the Mycological Society of America, June 23-27, Corvallis, Oregon, USA. Symposium presentation and an abstract.
- King, E.L., Jumpponen, A., Herrera, J., and Kramer, C.L. 2002. Sampling and PCR-detection of fungi in indoor air. Annual Meeting of the Mycological Society of America, June 23-27, Corvallis, Oregon, USA. Contributed presentation and an abstract.
- Caldwell, B.A. and Jumpponen, A. 2003. Utilization of heterocyclic organic nitrogen by mycorrhizal fungi. Fourth International Conference on Mycorrhizae, August 10-15, Montreal, Canada. Poster and an abstract.
- Caldwell, B.A. and Jumpponen, A. 2003. Arylsulfatase production by mycorrhizal fungi. Fourth International Conference on Mycorrhizae, August 10-15, Montreal, Canada. Poster and an abstract.
- Jumpponen, A. 2003. New conceptual model for succession of ectomycorrhizal fungi. Fourth International Conference on Mycorrhizae, August 10-15, Montreal, Canada. Symposium presentation and an abstract.
- Hobbie, E. A. and Jumpponen, A. 2004 ¹⁵N content reflects development of mycorrhizae and nitrogen dynamics during primary succession. AGU workshop, May 17-21, Montreal Canada. Oral presentation and an abstract.
- Mandyam, K. and Jumpponen, A. 2004. *Periconia* spp. are common root-colonizing fungi in the tall-grass prairie. Mycological Society of America, July 18-21, Ashville, NC. Poster and an abstract.
- Mandyam, K. and Jumpponen, A. 2004. *Periconia* spp. are common root-colonizing fungi in the tallgrass prairie. Ecological Society of America, August 1-6, Portland, OR. Poster and an abstract.
- Simpson, N.B., Walker, J.F., Trowbridge, J. and Jumpponen, A. 2004. How important are interspecific intraspecific variation in arctic ericoid mycorrhizal communities. Mycological Society of America, July 18-21, Ashville, NC. Oral presentation and an abstract.

- Jumpponen, A. 2005. Pitfalls and utilities of using molecular detection of fungi. Annual meeting of the Mycological Society of America, August 1-5, Hilo, Hawaii. Symposium presentation and an abstract.
- Mandyam, K. and Jumpponen, A. 2005. Diversity and function of fungal endophytes of a tallgrass prairie. Annual meeting of the Mycological Society of America, August 1-5, Hilo, Hawaii. Poster and an abstract.
- Simpson, N.B., Barbare, H., Walker, J.F., and Jumpponen, A. 2005. Homologous morphologies of ericoid mycorrhizas formed by six different fungal species suggests host control of mycorrhizal colonization. Annual meeting of the Mycological Society of America, August 1-5, Hilo, Hawaii. Poster and an abstract.
- Walker, J.F., Johnson, L.C., Simpson, N.B., Trowbridge, J. and Jumpponen, A. 2005. Arctic ericoid plants depend on a unique assemblage of fungi for uptake of organic N. Annual meeting of the Mycological Society of America, August 1-5, Hilo, Hawaii. Poster and an abstract.
- Aldrich-Wolfe, L., Simpson, N.B., Walker, J.F., Trowbridge, J., Barbare, H., and Jumpponen, A. 2006. Ericoid mycorrhizal fungi of arctic tundra differ in their ability to use different inorganic and organic sources of nitrogen. 5th International Conference on Mycorrhiza. Granada, Spain, July 23-27, 2006. Poster and an Abstract.
- Aldrich-Wolfe, L., Simpson, N.B., Walker, J.F., Trowbridge, J., Barbare, H., and Jumpponen, A. 2006. Ericoid mycorrhizal fungi of arctic tundra differ in their ability to use different inorganic and organic sources of nitrogen. 91st Annual Meeting of the Ecological Society of America. Memphis, TN, July 23-27, 2006. Poster and an Abstract.
- Fox, C.B., Trowbridge, J., Mandyam, K.G., Riffel, A.K., Barbare, H.W., Dunn, R.L., Kageyama, S.A., and Jumpponen, A. 2006. Microscopic analysis of novel. Root-associated ascomycetous endophytes from grassland and meadow ecosystems of Western United States. 5th International Conference on Mycorrhiza. Granada, Spain, August 6-11, 2006. Oral Presentation and an Abstract.
- Jumpponen, A., Barbare, H., Simpson, N.B., Walker, J.F., Yaeger, C. 2006. A novel assembly of ericoid mycorrhizal fungi varies in function and fungicide tolerance. 5th International Conference on Mycorrhiza. Granada, Spain, July 23-27, 2006. Symposium Presentation and an Abstract.
- Jumpponen, A. Mandyam, K. *Arabidopsis thaliana* - a model for root-associated mutualisms? Mycorrhiza: System research from genes to communities. Monte Verita, Ascona, Switzerland, March 4-9, 2006. Oral presentation and an abstract.
- Jumpponen, A. Mandyam, K. 2006. *Arabidopsis thaliana* - a model for root-associated mutualisms? Workshop in Eco-Genomics. Ravenstein, the Netherlands, September 29 – October 1, 2006. Poster and an Abstract.
- Mandyam, K., Krothapalli, K., and Jumpponen, A. 2006. Role of *Periconia macrospinoso*, a

tallgrass prairie endophyte in improved pathogen resistance. 5th International Conference on Mycorrhiza. Granada, Spain, July 23-27, 2006. Workshop Presentation and an Abstract.

Riffel, A., Simpson, N.B., Trowbridge, J., Fox, C.B., Mandyam, K., and Jumpponen, A. 2006. *Arabidopsis thaliana* colonization by ascomycetous rot endophytes. 5th International Conference on Mycorrhiza. Granada, Spain, July 23-27, 2006. Poster and an Abstract.

Kageyama, S.A., Trowbridge, J., Mandyam, K.G., Fox, C.B., Riffel, A., Dunn, R., Myrold, D.D., Jumpponen, A. 2006. Cross-site comparisons of root-associated dark septate endophytes from five Long term Ecological Research sites. LTER All Scientist Meeting, Estes Park, Colorado, September 21-24, 2006. Poster and an Abstract.

Kageyama, S.A., Mandyam, K.G., Myrold, D.D., Jumpponen, A. 2006. Using Affymetrix *Arabidopsis* ATH1 genome microarrays to understand the endophytic function of *Periconia macrospinoso*. Ecological Genomics Symposium, Kansas City, Missouri, November 3-5, 2006. Poster and an Abstract.

Aldrich-Wolfe, L., Riffel, A., Barbare, H., and Jumpponen, A. 2007. Effects of host and local environment on the ericoid mycorrhizal community in Arctic tundra. 11th Biennial Soil Ecology Society Meeting, Moab, Utah. April 29- May 2, 2007. Oral presentation and an Abstract.

Jumpponen, A. and Jones, K.L. 2007. Use of a massively parallel sequencing strategy to assess soil eukaryote responses to altered precipitation and warming. 11th Biennial Soil Ecology Society Meeting, Moab, Utah. April 29- May 2, 2007. Oral presentation and an Abstract.

Kageyama, S.A., Trowbridge, J., Mandyam, K.G., Fox, C.B., Riffel, A.K., Dunn, R., Myrold, D.D. and Jumpponen, A. 2007. Molecular and microscopic analysis of novel root-associated dark septate endophytes from five Long Term Ecological Research sites. 11th Biennial Soil Ecology Society Meeting, Moab, Utah. April 29- May 2, 2007. Poster and an Abstract.

Mandyam, K, Kageyama, SK Jumpponen, A. 2007. Using *Arabidopsis* ATH1 microarrays to understand the function of fungal root endophytes. Ecological Genomics Research Forum, Manhattan, Kansas. June 19, 2007. Oral presentation and an Abstract.

de Azevedo, L.C.B., Jumpponen, A., and Lambais, M.R. 2008. *Glomus* group A in prairie roots under nitrogen fertilization. XI Encontro Nacional de Microbiologia Ambiental. Fortaleza, Brazil. November 4-7, 2008. Oral presentation and an Abstract.

Carlsson, G., Palmberg, C. Jumpponen, A., Scherer-Lorensen, M., Högberg, P., and Huss-Danell, K. 2008. Nitrogen fixation in three perennial clovers in experimental grasslands of varied plant species diversity. 22nd general Meeting of the European Grassland Federation. Uppsala, Sweden. June 19-22, 2008. Oral presentation and an Abstract.

Jumpponen, A. and Jones, K.L. 2008. Molecular tools for assessing fungal biodiversity. Ecological Society of America. Milwaukee, WI. August 1-8, 2008. Workshop presentation and an Abstract.

Jumpponen, A. 2008. What does rRNA teach us about fungal ecology? Ecological Society of

- America. Milwaukee, WI. August 1-8, 2008. Oral presentation and an Abstract.
- Mandyam, K.G. and Jumpponen, A. 2008. Molecular and metabolic dissection of the novel Arabidopsis-root endophyte. Mycological Society of America Annual Meeting, State College, PA. August 9-13, 2008. Oral presentation and an Abstract.
- Myrold, D.D., Jumpponen, A., Jones, K.L., Rhinhart, K. and Machado, S. 2008. Measuring changes in soil microbial communities during 30 years of winter wheat management using high-throughput sequencing. American Society of Agronomy Annual Meeting, Houston TX. October 5-9.
- Niemi, K., Jokipii, S., Terhonen, E., Jumpponen, A., Brader, G., Kallio, P. and Häggman, H. Specific ECM fungi and root endophytic fungi induce root formation of hybrid aspen in vitro - role of endogenous haemoglobins in early growth responses. 5th International Symposium on Adventitious Root Formation: from cell fate flexibility to root meristem determination and biomass formation. Alcala de Henares, Madrid, Spain. June 16-20, 2008. Keynote presentation and an Abstract (Abstract book pp. 99-100).
- Garrett, K.A., Jumpponen, A., and Gomez, L. 2009. Conceptual frameworks for epidemiology: anticipating the flood of pyrosequencing data. 10th International Epidemiology Workshop. Geneva, NY. June 7-12, 2009. Oral Presentation.
- Gomez, L., Jumpponen, A., Herman, M., Garrett, K.A. 2009. Pyrosequencing to determine the Influence of Fallow Period on Soil Microbial Communities in the Bolivian Highlands. Ecological Genomics Symposium. Kansas City, MO. November 13-15, 2009. Poster.
- Gomez, L., Gatere, L., Lehmann, J., Herman, M., Garrett, K.A. 2009. Soil microbial community responses to farm management strategies in Zambia. African issues symposium: food security, environmental sustainability and human health. Manhattan, KS. March 30-April 1, 2009. Poster.
- Jumpponen, A. and Jones, K.L. 2009. Analysis of Quercus macrocarpa phyllosphere fungal communities using 454 sequencing. 454-sequencing workshop. Manhattan, KS. November 10, 2009. Oral Presentation.
- Jumpponen, A., Jones, K.L. and Blair, J. 2009. Phyllosphere fungal communities differ among the urban and non-urban environments – analysis across a growing season. Mycological Society of America Annual Meeting. Snowbird, UT. July 25-29, 2009. Oral Presentation.
- Myrold, D.D., Jumpponen, A., and Jones, K.L. 2009. Measuring changes in soil microbial communities after 10 years of organic matter manipulations in an old-growth Douglas-fir soil using high-throughput sequencing. Pittsburg, PA. Annual Meeting of the Soil Science Society of America, November 1-5, 2009.