

Scientific publications 2010

Refereed items published in international journals or books

- Andersson P., Johansson S., Stenlid J., Broberg A. 2010. Isolation, identification and necrotic activity of viridiol from *Chalara fraxinea*, the fungus responsible for dieback of ash. *Forest Pathology* vol. 40 43-46
- Arnerup J., Swedjemark G., Elfstrand M., Karlsson B., Stenlid J. 2010. Variation in growth of *Heterobasidion parviporum* in a full-sib family of *Picea abies* *Scandinavian Journal of Forest Research* vol. 25 nr 2 106-110
- Blixt E., Olson Å., Lindahl B., Djurle A., Yuen J. 2010. Spatiotemporal variation in the fungal community associated with wheat leaves showing symptoms similar to *stagonospora nodorum* blotch *European Journal of Plant Pathology* 373-386
- Boberg J., Finlay R., Stenlid J., Lindahl B. 2010. Fungal C translocation restricts N-mineralization in heterogeneous environments *Functional Ecology* nr 24 454-459
- Dahlberg A., Dahlberg A., Genney D.R., Heilmann-Clausen J. 2010. Developing a comprehensive strategy for fungal conservation in Europe: current status and future needs *Fungal Ecology* vol. 3 nr 2 50-64
- Dalman K., Olson Å., Stenlid J. 2010. Evolutionary history of the conifer root rot fungus *Heterobasidion annosum sensu lato* *Molecular Ecology* vol. 19 nr 22 4979-4993
- Feddermann N., Finlay R., Boller T., Elfstrand M. 2010. Functional diversity in arbuscular mycorrhiza - the role of gene expression, phosphorus nutrition and symbiotic efficiency. *Fungal Ecology* vol. 24 1-8
- Fransson P.M.A., Johansson E. 2010. Elevated CO₂ and nitrogen influence exudation of soluble organic compounds by ectomycorrhizal root systems *FEMS Microbiology Ecology* vol. 71 186-196
- Högberg N., Engh I., Kauserud H., Saetre JP. 2010. Two invasive populations of the dry rot fungus *Serpula lacrymans* show divergent population genetic structures. *Molecular Ecology* vol. 19 nr 4 706-715
- Ihrmark K., Asmail N., Ubhayasekera W., Melin P., Stenlid J., Karlsson M. 2010. Comparative molecular evolution of *Trichoderma* chitinases in response to mycoparasitic interactions *Evolutionary Bioinformatics* vol. 2010:6 1-26
- Jaime L., Linderholm A., Olaria C., Brandström Durling M., Gilbert M.T.P., Ellegren H., Willerslev E., Liden K., Götherstrom A. 2010. Ancient DNA reveals traces of Iberian Neolithic and Bronze Age lineages in modern Iberian horses *Molecular Ecology* vol. 19 64-78

- Johansson S., Vasaitis R., Ihrmark K., Barklund P., Stenlid J. 2010. Detection of *Chalara fraxinea* from tissue of *Fraxinus excelsior* using species-specific ITS primers *Forest Pathology* vol. 40 111-115
- Lindahl B., de Boer W., Finlay R. 2010. Disruption of root carbon transport into forest humus stimulates fungal opportunists at the expense of mycorrhizal fungi *ISME Journal* vol. 4 872-881
- Lygis V., Vasiliauskaite I., Stenlid J., Vasaitis R. 2010. Impact of forest fire on persistence of *Heterobasidion annosum* s.s. root rot, and on diversity of wood-inhabiting fungi in roots of *Pinus mugo* *Forestry* vol. 83 83-92
- Mekonnen B., Yahya A., Alström S. 2010. Micro-organisms associated with endangered *Cordeauxia edulis* affect its growth and inhibit pathogens. *African Journal of Agricultural Research* vol. 5 nr 24 3360-3368
- Menkis A., Uotila A., Arhipova N., Vasaitis R. 2010. Effects of stump and slash removal on growth and mycorrhization of *Picea abies* seedlings outplanted on a forest clear-cut *Mycorrhiza* vol. 20 505-509
- Menkis A., Whittle C.A., Johannesson H. 2010. Gene genealogies indicates abundant gene conversions and independent evolutionary histories of the mating-type chromosomes in the evolutionary history of *Neurospora tetrasperma* *BMC Evolutionary Biology* vol. 10 nr 234 1-11
- Monard C., Nunan N., Bardoux G., Vieublé-Gonod L. 2010. A miniaturised method to quantify microbial mineralisation of ¹³C-labelled organic compounds in small soil samples *Soil Biology & Biochemistry* vol. 42 1640-1642
- Monard C., Marin-Laurent F., Devers-Lamrani M., Lima O., Vandenkoornhuysse P., Binet F. 2010. atz gene expressions during atrazine degradation in the soil drilosphere *Molecular Ecology* vol. 19 749-759
- Oliva J., Gonthier P., Stenlid J. 2010. Gene flow and inter-sterility between allopatric and sympatric populations of *Heterobasidion abietinum* and *H. parviporum* in Europe *Forest Pathology* 1-14
- Oliva J., Thor M., Stenlid J. 2010. Long-term effects of mechanized stump treatment against *Heterobasidion annosum* root rot in *Picea abies* *Canadian Journal of Forest Research* vol. 40 1020-1033
- Oliva J., Thor M., Stenlid J. 2010. Reaction zone and periodic increment decrease in *picea abies* trees infected by *Heterobasidion annosum* s.l. *Forest Ecology and Management* vol. 260 692-698
- Oliva Palau J., Colinas C. 2010. Epidemiology of *Heterobasidion abietinum* and *Viscum album* on silver fir (*Abies alba*) stands of the Pyrenees *Forest Pathology* vol. 40 nr 1 19-32

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- Pihlgren A., Hallingbäck T., Aronsson M., Dahlberg A., Edqvist M., Johansson G., Krikorev M., Thor G. 2010. Var femte växt och svamp är med på nya rödlistan *Svensk botanisk tidskrift* vol. 104 210-226
- Strandberg R., Nygren K., Menkis A., James T.Y., Wik L., Stajich J.E., Johannesson H. 2010. Conflict between reproductive gene trees and species phylogeny among heterothallic and pseudohomothallic members of the filamentous ascomycete genus *Neurospora* *Fungal Genetics and Biology* vol. 47 869–878
- Tomsovsky M., Menkis A., Vasaitis R. 2010. Phylogenetic relationships in European *Ceriporiopsis* species inferred from nuclear and mitochondrial ribosomal DNA sequences *Fungal Biology* vol. 114 350-358
- Wallander H., Johansson U., Sterkenburg E., Brandström Durling M., Lindahl B. 2010. Production of ectomycorrhizal mycelium peaks during canopy closure in Norway spruce forests. *New Phytologist* vol. 187 nr 4 1124-1134

Popular science articles

- Lundin G., Andersson B., Rydberg T., Twengström E. 2010. Inverkan av jordbearbetning och stubbhackning på spridning av bladfläcksjuka (*Pyrenophora tritici-repentis*) i höstvetete vol. 393
- Skovsgaard J.P., Thomsen I.M., Barklund P. 2010. Skötsel av bestånd med askskottsjuka Fakta. Skog
- Wikström M., Heyman F., Persson L. 2010. Ny aggressiv art orsakar rotröta i både ärt och åkerböna. *Arvensis* nr 3 18-19

Dissertations

- Dalman K. 2010. *Heterobasidion* root rot : genetic mapping of virulence and evolutionary history *Acta Universitatis agriculturae Sueciae* nr 2010:81
- Lundén K. 2010. *Heterobasidion* - conifer pathosystem : heterologous array analysis and transcriptional shift from saprotrophic to necrotrophic growth *Acta Universitatis agriculturae Sueciae* nr 2010:19
- Widmark A-K. 2010. The late blight pathogen, *Phytophthora infestans* : interaction with the potato plant and inoculum sources *Acta Universitatis agriculturae Sueciae* nr 2010:2

Master thesis

- El Khosht F. 2010. Species diversity and geographical distribution of *Fusarium* species on winter wheat in two regions in Sweden
- Graf-Wimark D.R.H. 2010. Substrate utilization, ammonium mineralization and phylogenetic relationships of the fungi *Leptodontidium* sp. found in boreal forest soil
- Hosseini S. 2010. Expression patterns of pathogenicity genes during *Phytophthora pisi* infection of pea roots
- Hutzenlaub N. 2010. Assessment of soil suppressiveness : the system of fusarium foot rot on wheat
- Romeralo C. 2010. Reliability of Rotfinder instrument for detecting decay in standing trees
- Westman C. 2010. Svampsamhällen och svampsjukdomar på åkerböna samt svamparnas inverkan på grobarheten
- Wirsén H. 2010. Svartrost, *Puccinia graminis* f. sp. *avenae*, epidemiologi och bekämpningsstrategier i Mälardalen

Conference proceedings

- Alsanius B., Zhu L-H., Liljeroth E., Jensen D.F., Molin G., Wohanka W. 2010. Postgraduate school in horticulture - μ HORT BHGL-Schriftenreihe vol. 27 63-63
- Andersson P., Hansson D., Nord C., Olson Å., Bengtsson S., Karlsson M., Vasaitis R., Menkis A., Stenlid J., Broberg A. 2010. Microbial secondary metabolism with implications for forest pathology
- Andersson P., Bengtsson S., Stenlid J., Broberg A. 2010. Steroidal secondary metabolites from *Chalara fraxinea*, the fungus responsible for dieback of ash
- Bergkvist G., Friberg H. 2010. Förfruktseffekt och utvintring i höstvetete Meddelande från Södra jordbruksförsöksdistriktet
- Berlin A., Szabo L., Djurle A., Samils B., Yuen J. 2010. Population structure of *Puccinia graminis* f.sp. *avenae* in oat fields in Sweden
- Blandon-Diaz U., Widmark A-K., Hannukkala A., Högberg N., Yuen J. 2010. Phenotypic variation within a clonal lineage of *Phytophthora infestans* from Nicaragua nr 14 265
- Blixt E., Andersson B. 2010. *Alternaria solani* - occurrence and fungicide sensitivity in Sweden
- Djurle A., Grudzinska-Sterno M., Rasmussen P.H., Yuen J. 2010. Incidence of *Fusarium* species and mycotoxins in Swedish winter wheat fields. 12

- Grønbech Hansen J., Andersson B., Bain R., Lees A., Bugiano R., Faye R., Bucena L., Kildea S., Cooke L., Dubois, L., Filippov A., Hannukkala A., Hausladen H., Hausvater E., Heldak J., Hermansen A., Nærstad R., Kapsa J., Koppel M., Musa T., Ronis A., Schepers H., Vogelaar K., Vanhaverbeke P. 2010. The development and control of Late Blight (*Phytophthora infestans*) in Europe in 2009 PPO-Special Report nr 14 11-16
- Grönberg L., Andersson B., Högberg N., Widmark A-K., Yuen J. 2010. Genotypic variation of *Phytophthora infestans* within and between fields in the Nordic countries PPO-Special Report nr 14 151-153
- Heyman F., Persson L., Wikström M. 2010. A new *Phytophthora* species causing root rot in pea and other legumes
- Karlsson M., Stenlid J. 2010. Diversity, domain-structures and phylogenetic relationships of family 18 glycoside hydrolases vol. XI 278-282
- Nord C., Menkis A., Vasaitis R., Broberg A. 2010. Bioactive sesquiterpenes from the basidiomycete *Hypochnicium vellereum*
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