Selected publications

Bengt Söderström

Wright, D.P., Johansson, T., Le Quére, A., Söderström, B. & Tunlid, A. 2005. Spatial patterns of gene expression in the extramatrical mycelium and mycorrhizal root tips formed by the ectomycorrhizal fungus Paxillus involutus in association with birch (Betula pendula Roth.) seedlings in soil microcosms. New Phytologist 167, 579-596.

Le Quéré, A., Wright, D.P., Söderström, B., Tunlid, A., Johansson, T. 2005. Global patterns of gene regulation associated with the development of ectomycorrhiza between birch (Betula pendula Roth.) and Paxillus involutus (Batsch) Fr. Molecular Plant-Microbe Interactions 18, 659-673.

Johansson, T., Le Quéré, A., Ahrén, D, Söderström, B., Erlandsson, R., Lundeberg, J., Uhlén, M., & Tunlid, A. 2004. Transcriptional responses of Paxillus involutus and Betula pendula during formation of ectomycorrhizal root tissue. Molecular Plant-Microbe Interactions 17, 201-215

Bidartondo, M.I., Ek, H., Wallander, H. & Söderström, B. 2001. Carbon sink strength in relation to ammonium and apatite additions of Suillus pungens, Rhizopogon spp., and Paxillus involutus in ectomycorrhizal association with Pinus muricata. New Phytologist 151, 543-550.

van Aarle, I.M., Olsson, P.A. & Söderström, B. 2001. Microscopical detection of phosphatase activity of saprophytic and arbuscular mycorrhizal fungi using a fluorogenic substrate. Mycologia 93, 17-24

Olsson, P.A., Francis, R., Read, D.J. & Söderström, B. 1998. Growth of arbuscular mycorrhizal mycelium in calcareous dune sand and its interactions with other soil microorganisms as estimated by measuerment of specific fatty acids. Plant and Soil 201, 9-16

Olsson P.A., Bååth E., Jakobsen I. & Söderström B. 1996. Soil bacteria respond to presence of roots but not to arbuscular mycorrhizal mycelium. Soil Biology and Biochememistry 28, 463-470.

Chalot M., Brun A., Botton B. & Söderström B. 1996. Kinetics, energetics and specificity of a general amino acid transporter from the ectomycorrhizal fungus Paxillus involutus. Microbiology 142, 1749-1756.

Olsson P.A., Bååth E., Jakobsen I. & Söderström B. 1995. The use of phospholipid and neutral lipid fatty acids to estimate biomass of arbuscular mycorrhizal fungi in soil. Mycological Research 99, 623-629.

Brun A., Chalot M., Finlay R.D & Söderström B. 1995. Structure and function of the ectomycorrhizal association between Paxillus involutus (Batsch) Fr. and Betula pendula (Roth.). I. Dynamics of mycorrhiza formation. New Phytologist 129, 487-493.

Arnebrant K., Ek., Finlay R.F. & Söderström B. 1992. Nitrogen translocation between Alnus glutinosa (L.) Gaertn. seedlings inoculated with Frankia sp and Pinus contorta

Doug. ex Loud seedlings connected by a common ectomycorrhizal mycelium. New Phytologist 124, 231-242

Finlay R.D., Ek H., Odham G. & Söderström B. 1988. Mycelial uptake, translocation and assimilation of nitrogen from 15labelled ammonium by Pinus sylvestris plants infected with four different ectomycorrhizal fungi. New Phytologist 110, 59-66.

Söderström B. & Read D.J. 1987. Respiratory activity of intact and excised ectomyccorhizal mycelial systems growing in unsterilized soil. Soil Biology and Biochemistry 19, 231-236.

Bååth E., Lundgren B. & Söderström B. 1981. Effects of nitrogen fertilization on the biomass and activity of fungi and bacteria in a podzolic soil. Zentralblatt für Bakteriologie, Mikrobiologie und Hygiene I. Abt. Orig. C 2, 90-98.

Söderström B.E. 1977. Vital staining of fungi in pure culture and in soil with fluorescein diacetate. Soil Biology and Biochemistry 9, 59-63.

[Research Quality Assurance for the Future - RQ08. A Quality Review of Research at Lund University 2007/2008. Editors GS Boulton & B Söderström. 522 p]