

# NITROFUNGI and PYROFUNGI projects

## Final seminar 28.8.2017

Location: Lecture hall 106 (B5), Latokartanonkaari 7, Viikki Campus, Helsinki

Registration by 25.8.2017 <https://elomake.helsinki.fi/lomakkeet/80981/lomake.html>

9.00- 9.15 Morning coffee

9.15- 11.15 PYROFUNGI project

Doc. Jussi Heinonsalo: Opening and short introduction to the aims of the PYROFUNGI project

Prof. Hui Sun: Microbial community shifts in structure and function across a boreal forest fire chronosequence (published x 2)

PhD student Minna Santalahti: The effect of reindeer grazing on soil fungal communities and enzyme activities (submitted)

PhD student Minna Santalahti: Vertical and seasonal dynamics of fungal communities in boreal Scots pine forest soil (published)

Prof. Hui Sun: Geographical fungal gradient from southern to northern and arctic boreal forest soil (manuscript)

Doc. Jussi Heinonsalo: Fungal hyphal turnover and dynamics in Southern boreal forest (manuscript)

PhD student Xuan Zhou: Fungal hyphal turnover and dynamics in Northern and subarctic boreal forest (manuscript)

11.15- 12.15 Lunch break (own cost)

12.15-14.00 NITROFUNGI project (part A Field studies)

Doc. Jussi Heinonsalo: Short introduction to the aims of the NITROFUNGI project

PhD student Kira Ryhti: The effects of tree and ground vegetation belowground C allocation to soil CO<sub>2</sub> fluxes (manuscript)

Doc. Jussi Heinonsalo: Field-scale rhizosphere priming effect quantification: new insight into belowground litter input (manuscript)

PhD student Mari Mäki: Contribution of understory vegetation and soil processes to boreal forest isoprenoid exchange (published)

Dr. Antti-Jussi Kieloaho: Soil concentrations and soil-atmosphere exchange of alkylamines in a boreal Scots pine forest (published)

Doc. Mari Pihlatie: The effects of tree and ground vegetation belowground C allocation to soil CH<sub>4</sub> fluxes (manuscript)

Prof. Jukka Pumpanen: Comparison of methods for separating autotrophic and heterotrophic soil respiration (manuscript)

PhD student Outi-Maaria Sietiö: The impact of plant-derived C flow on fungal and bacterial communities (manuscript)

Doc. Jussi Heinonsalo: Ability of mycorrhizal genus *Piloderma* to use organic nitrogen and deliver it to Scots pine (published)

Doc. Bartosz Adamczyk: Plant-microbial interaction with condensed tannins increase SOM turnover and formation (manuscript)

PhD student Outi-Maaria Sietiö: The impact of plant-derived C flow on root litter decomposition (manuscript)

14.00- 14.15 Coffee break

14.15- 16.00 NITROFUNGI project (part B Microcosm studies)

Dr. Antti-Jussi Kieloaho: Stimulation of soil organic nitrogen pool: The effect of plant and SOM degrading enzymes (published)

Doc. Bartosz Adamczyk: The contribution of ericoid plants to soil N chemistry and OM decomposition in boreal forest soil (published)

Doc. Sari Timonen: Bacteria in ericoid mycorrhizospheres (published)

PhD student Outi-Maaria Sietiö: Ericoid plant species shape fungal communities in roots and soil (submitted)

Doc. Malin Bomberg: Fungal biomass as N source for boreal forest soil microbes (manuscript)

PhD student Elisa Halmeenmäki: Above- and belowground fluxes of CH<sub>4</sub> from boreal dwarf shrubs and pine seedlings (accepted)

Dr. Liisa Kulmala: The differences in carbon dynamics between boreal dwarf shrubs and Scots pine seedlings (submitted)

PhD student Heikki Kiheri: Staining and microscopy of mycorrhizal fungal colonization in preserved ericoid plant roots (published)

Doc. Bartosz Adamczyk: Condensed tannins increase the recalcitrance of fungal litter in boreal forest soil (submitted)

Doc. Bartosz Adamczyk: Novel method to study concentration of chitin from soil and fungal samples (manuscript)

16.00- 17.00 Closing and Sparkling wine, snacks and free discussion

17.00 Departure for dinner (own cost, email [Jussi.heinonsalo@helsinki.fi](mailto:Jussi.heinonsalo@helsinki.fi) if you like to join us)