


Recent Publication from Dr. Mohn Lab


[< Back to Articles](#) [1]

 Life Sciences Institute

International Society for Microbial Ecology Journal

Long-term effects of timber harvesting on hemicellulolytic microbial populations in coniferous forest soils


MOHN LAB
Dept. of Microbiology & Immunology
Hilary Leung, Kendra Maas, Roland Wilhelm, and William Mohn
ISME J. 10(2): 363-75 (2016)



Ecozone

- K
- S
- M
- J
- L

Using Stable-isotope probing, this work identifies novel hemicellulolytic bacterial and fungal populations and characterizes their long-term response to timber harvesting.

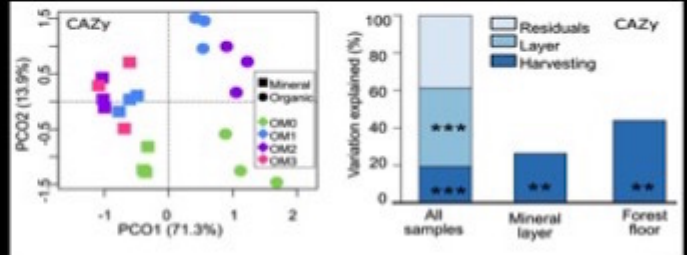
 Life Sciences Institute

Department of Microbiology and Immunology

MICROBIAL ECOLOGY

Forest harvesting reduces the soil metagenomic potential for biomass decomposition

MOHN LAB
Dept. of Microbiology & Immunology
Erick Cardenas, Marty Kranabetter, Graeme Hope, Kendra Maas, Steven Hallam and William Mohn
ISME J. 9:2465-2476 (2015)
published online 24 April 2015
doi:10.1038/ismej.2015.57



PCA plot showing PCO2 (13.9%) vs PCO1 (71.3%) for CAZy genes. Legend: Mineral (black), Organic (grey), OM0 (green), OM1 (blue), OM2 (purple), OM3 (red).

Stacked bar chart showing Variation explained (%) for CAZy genes in All samples, Mineral layer, and Forest floor. Legend: Residuals (white), Layer (light blue), Harvesting (dark blue).

This work models the long-term effects of forest harvesting on the cycling of carbohydrates and lignin by soil organisms.



Life Sciences Institute

Department of Microbiology and Immunology

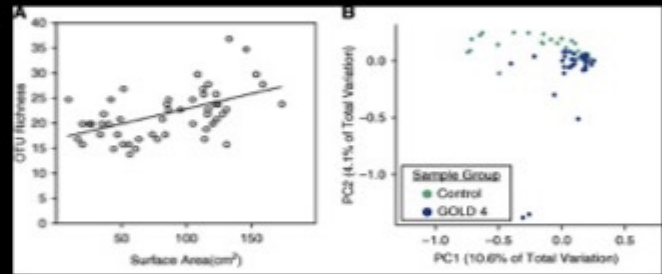
"Blue" Journal

Host response to the lung microbiome in chronic obstructive pulmonary disease

Mohn Lab

Dept. of Microbiology & Immunology

Sze M, Dimitriu PA, ... Mohn WW, Hogg JC
(2015) Am J Respir Crit Care Med 192:
438-45



We integrated data on the lung tissue microbiome, micro-computed tomography, inflammatory cells, and host gene expression to describe novel associations between the lung microbiome and the pathogenesis of chronic obstructive pulmonary disease