

Online Resource 1

Article title: Rapid nitrogen loss from ectomycorrhizal pine germinants signalled by their fungal symbiont

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Authors: Joshua M Smith, Matthew D Whiteside and Melanie D Jones

Corresponding author: Melanie D Jones

Biology Department and Okanagan Institute of Biodiversity Resilience and Ecosystem Services,
University of British Columbia, Okanagan campus, Kelowna, British Columbia, V1V 1V7
Canada

melanie.jones@ubc.ca

Online Resource 1. ^{15}N concentrations in shoots of *Pinus contorta* associated with *Suillus tomentosus*.

Treatment Number	Foliar Treatment	Hyphal Well ³	Harvest Time (d)	Hyphae	¹⁵ N Analyses Replicates (Foliar Application)				¹⁵ N at% (\pm SD)			
					Shoot (H ₂ O)	Shoot (N)	Root (H ₂ O)	Root (N)	Shoot (H ₂ O)	Shoot (N)	Root (H ₂ O)	Root (N)
1	Differential ¹	N/A	73	Intact	3	3	5 ⁴	-	0.36498 \pm 0.00044	0.36467 \pm 0.00044	0.36529 \pm 0.00082 ⁴	-
2	H ₂ O ²	N/A	73	Intact	6	-	4	-	0.36456 \pm 0.00059	-	0.36546 \pm 0.00065	-
3	Differential ¹	NH ₄	75	Intact	8	8	7	7	0.37013 \pm 0.00714	0.37459 \pm 0.02246	0.40144 \pm 0.03624	0.44986 \pm 0.13613
4	Differential ¹	Glycine	75	Intact	8	8	7	6	0.40763 \pm 0.06895	0.41788 \pm 0.12623	0.77019 \pm 0.53239	0.96079 \pm 1.14465
5	Differential ¹	H ₂ O	75	Intact	4	4	3	3	0.36481 \pm 0.00044	0.36478 \pm 0.00092	0.36525 \pm 0.00094	0.36518 \pm 0.00082
6	H ₂ O ²	NH ₄	75	Intact	8	-	7	-	0.37173 \pm 0.00967	-	0.39652 \pm 0.03413	-
7	H ₂ O ²	Glycine	75	Intact	8	-	6	-	0.36550 \pm 0.00237	-	0.37652 \pm 0.01550	-
8	H ₂ O ²	H ₂ O	75	Intact	8	-	5	-	0.36485 \pm 0.00069	-	0.36476 \pm 0.00079	-
9	Differential ¹	NH ₄	75	Severed	4 ⁴	-	4 ⁴	-	0.36890 \pm 0.00473 ⁴	-	0.40152 \pm 0.03464 ⁴	-
10	Differential ¹	Glycine	75	Severed	5 ⁴	-	4 ⁴	-	0.36532 \pm 0.00083 ⁴	-	0.36819 \pm 0.00521 ⁴	-

¹Microcosms where the foliage of one of the two *P. contorta* seedlings was treated with 4.7 mM-N NH₄Cl and the other received deionized H₂O.

²Microcosms where the foliage of both seedlings received H₂O.

³At 73 d; 9.46 mM-N NH₄Cl (98+ at% ^{15}N), 9.46 mM-N glycine (99+ at% ^{15}N), or deionized H₂O were added to wells accessible by hyphae but not roots; N/A indicates treatments that were harvested before N additions were made to the hyphal wells.

⁴Analyses where differential foliar applications were merged due to low replicate counts.