

Peer-reviewed publications list
(My students/staff names are underlined)

1. Drouin M., Bradley RL, Lapointe L (Submitted May 2014) Human-mediated dispersal of non-native earthworms and their impacts on the ecological integrity of sugar maple forests in Québec. *Biological Conservation*.
2. Pierre-Olivier Jean, R.L. Bradley, J-P Tremblay, S. Côté (Submitted May 2014) Combining near infrared spectra of fecal samples and geostatistical tools to generate forage nutritional quality maps across heterogeneous landscapes. *Ecological Applications*
3. Kernecker M, Whalen JK, Bradley RL (Submitted March 2014) Litter controls earthworm-mediated carbon and nitrogen transformations in soil from temperate riparian buffers. *Applied Soil Ecology*.
4. Kernecker M, Whalen JK, Bradley RL (Submitted June 16, 2014) Endogeic earthworms lower net methane production in saturated riparian soils. *Pedobiologia*
5. Chagnon P-L, Bradley RL, Klironomos JN. (Submitted, June 2014) Trait-based partner selection between plants and arbuscular mycorrhizal fungi. *Oikos*.
6. Chagnon P-L, Bradley RL. (Submitted, March 2014) The relative importance of host vigor and hormonal response to pathogens in controlling the development of arbuscular mycorrhizal fungi. *Soil Biology & Biochemistry*.
7. Gauthier M, Bradley RL, Šimek M (Accepted July 2014 – pending revisions) More evidence that anaerobic oxidation of methane is prevalent in soils: Is it time to upgrade our models? *Soil Biology & Biochemistry*
8. Chagnon P-L, **Bradley RL**, Klironomos JN. (2014 - In press). Plant-fungal symbioses as ecological networks: characterize more than interactions to really advance knowledge. *Fungal Ecology*.
9. Vessey JK, Feil H, Burton DL, Bradley RL, Smith DL. (2014) The bilateral influence of plant and rhizosphere characteristics in Brassicas varying in seed oil productivity. *Can J. Plant Sci.*
10. Fox M, Tackaberry LE, Bergeron Y, Drouin P, **Bradley RL**, Massicotte HB, Chen H (2014). Microbial community structure of soils under four productivity classes of aspen forests in Northern British Columbia. *Écoscience*. 20: 264-275.
11. Drouin M, Bradley RL, Lapointe L, Whalen J. (2014) Non-native anecic earthworms (*Lumbricus terrestris* L.) reduce seed germination and seedling survival of temperate and boreal trees species. *Appl. Soil Ecol.* 75: 145-149.
12. Jean P-O, **Bradley RL**, Giroux M-A, Tremblay J-P, Côté SD. (2014). Near infrared spectroscopy and fecal chemistry as predictors of the diet composition of white-tailed deer. *Rang. Ecol. Manag.* 67:154-159.
13. Chagnon P-L, **Bradley RL**. (2013). Evidence that soil nutrient stoichiometry controls the competitive abilities of arbuscular mycorrhizal vs. root-borne non-mycorrhizal fungi. *Fung. Ecol.* 6: 557–560.
14. Kyselkova M, Jirout J, Chronakova A, Vrchotova N, **Bradley RL**, Schmitt H, Elhottova D. (2013) Cow excrements enhance the occurrence of tetracycline resistance genes in soil regardless of their oxytetracycline content. *Chemosphere* 93: 2413–2418
15. Thiffault N, Fenton NJ, Munson AD, Hébert F, Fournier RA, Valéria O, **Bradley RL**, Bergeron Y, Grondin P, Paré D and Joanisse G. (2013). Managing understory vegetation for maintaining productivity in black spruce forests: A synthesis within a multi-scale research model. *Forests* 4, 613-631.

16. Chagnon P-L, **Bradley RL**, Maherali H, Klironomos JN. (2013). A C-S-R framework for studying life history of mycorrhizal fungi. *Trends Plant Sci.* 18: 484-491.
17. Lebel P, **Bradley RL**, Thiffault N. (2013) Evidence that *Kalmia angustifolia* creates water-stress to regenerating *Picea mariana* seedlings in Northwestern Quebec (Canada). *Am. J. Plant Sci.* 4: 1278-1284
18. Pelletier-Bergeron S, **Bradley RL**, Munson A, Parsons W. (2013) Physico-chemical and functional characteristics of soil charcoal produced at five different temperatures. *Soil Biol. Biochem.* 58: 140-146.
19. Thevathasan N, Gordon A, **Bradley RL**, et al., 2012. Agroforestry Research and Development in Canada: The Way Forward. Pp. 247-283 *In* Garrity, D.P. and Nair, P.K. (Eds.): Agroforestry – The Way Forward. Springer-Verlag.
20. **Bradley RL**, Chronáková A, Elhottová D, Šimek M. (2012). Interactions between land-use history and earthworms control gross rates of soil methane production in an overwintering pasture. *Soil Biol. Biochem.* 53: 64-71.
21. Chagnon P-L, **Bradley RL**, Klironomos J. (2012). Using ecological network theory to evaluate the causes and consequences of arbuscular mycorrhizal community structure. *New Phytologist* 194: 307-312.
22. Lorente M, Parsons WFJ, **Bradley RL**, Munson AD. (2012) Soil and plant legacies associated with harvest trails in boreal black spruce forests. *For. Ecol. Manag.* 269: 168–176.
23. Aulen M, Shipley B, **Bradley RL**. (2012). Prediction of *in situ* root decomposition rates in an interspecific context from chemical and morphological traits. *Ann. Bot.* 109: 287-297.
24. Dufresne M, **Bradley RL**, Tremblay J-P, Côté SD. (2011). Evidence that soil depth and clay content control the post-disturbance regeneration of balsam fir and paper birch under heavy browsing from deer. *Écoscience.* 18: 363-368.
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26. Chagnon P-L, **Bradley RL** (2011). On the use of sodium-hexametaphosphate to extract spores of arbuscular mycorrhizal fungi from soil. *Soil Biol. Biochem.* 43: 2273-2274.
27. Royer-Tardif S, **Bradley RL**. (2011). Forest floor properties across sharp compositional boundaries separating trembling aspen and jack pine stands in the southern boreal forest. *Plant Soil* 345: 353–364.
28. Royer-Tardif S, **Bradley RL**. (2011). Evidence that soil fertility controls the mixing of jack pine with trembling aspen. *For. Ecol. Manag.* 262: 1054–1060.
29. **Bradley RL**, Whalen J, Chagnon P-L, Lanoix M, Alves MC. (2011). Nitrous oxide production and potential denitrification in soils from riparian buffer strips: Influence of earthworms and plant litter. *Appl. Soil Ecol.* 47: 6–13.
30. Rivest D, Cogliastro A, **Bradley RL**, Olivier A. (2010) Intercropping hybrid poplar with soybean increases soil microbial biomass, mineral N supply and tree growth. *Agrofor. Syst.* 80: 33-40.
31. Bambrick AD, Whalen JK, **Bradley RL**, Cogliastro A, Gordon AM, Olivier A, Thevathasan NV. (2010). Spatial heterogeneity of soil organic carbon in tree-based intercropping systems in Quebec and Ontario, Canada. *Agrofor. Syst.* 79: 343-353.
32. Beaudette C, **Bradley RL**, Whalen J, McVetty PBE, Vessey K, Smith DL. (2010). Tree-based intercropping does not compromise canola (*Brassica napus* L.) seed oil yield and reduces soil nitrous oxide emissions. *Agr. Ecosys. Envir.* 139: 33-39.
33. Lteif A, Whalen JK, **Bradley RL**, Camiré C. (2010). Nitrogen transformations revealed by isotope dilution in an organically-fertilized hybrid poplar plantation. *Plant Soil* 333: 105-116.

34. Evers AK, Bambrick A, Lacombe S, Dougherty MC, Peichl M, Gordon AM, Thevathasan, NV, Whalen J., **Bradley RL**. (2010) Potential greenhouse gas mitigation through temperate tree-based intercropping systems. *Agr. J.* 4: 49-57.
35. Royer-Tardif S, **Bradley RL**, Parsons W. (2010). Evidence that plant diversity and site productivity confer stability to forest floor microbial biomass. *Soil Biol. Biochem.* 42: 813-821.
36. Laganière J, Paré D, **Bradley RL**. (2010). How does a tree species influence litter decomposition? Separating the relative contribution of litter quality, litter mixing and forest floor conditions. *Can. J. For. Res.* 40: 465-475.
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39. Van Lier O, Fournier RA, **Bradley RL**, Thiffault N. (2009). A multi-resolution satellite imagery approach for large area mapping of ericaceous shrubs in Northern Quebec, Canada. *Int. J. Appl. Earth Obs. Geoinf.* 11: 234-243.
40. Laganière J, Paré D, **Bradley RL**. (2009). Linking the abundance of aspen with soil faunal communities and rates of belowground processes within single stands of mixed aspen-black spruce. *Appl. Soil Ecol.* 41:19-28.
41. Lacombe S, **Bradley RL**, Hamel C, Beaulieu C. (2009). Do tree-based intercropping systems increase the diversity and stability of soil microbial communities? *Agr. Ecosys. Envir.* 131 : 25-31.
42. Joanisse G, **Bradley RL**, Preston C, Bending G. (2009). Sequestration of soil nitrogen as tannin-protein complexes may improve the competitive ability of sheep laurel (*Kalmia angustifolia*) relative to black spruce (*Picea mariana*). *New Phytologist* 181: 187-198.
43. LeBel P, Thiffault N, **Bradley RL**, (2008). *Kalmia* removal increases nutrient supply and growth of black spruce seedlings: an effect fertilizer cannot emulate. *For. Ecol. Manag.* 256: 1780-1784.
44. Lteif A, Whalen JK, **Bradley RL**, Camiré C. 2008. Diagnostic tools to evaluate the foliar nutrition and growth of hybrid poplars. *Can. J. For. Res.* 38: 2138-2147.
45. Joanisse G, **Bradley RL**, Preston C. 2008. Do tannin-rich plant communities occurring on highly acidic soils increase the DON:DIN ratio? *Biol. Fertil. Soils.* 44: 903-907.
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47. Lamarche J, **Bradley R.L.**, Hooper E., Shipley B, Simao-Beauvoir A.-M., Beaulieu C. (2007) Forest floor bacterial community composition and catabolic profiles in relation to landscape features in Québec's southern boreal forest. *Microbial Ecology.* 54: 10-20.
48. Joanisse J, **Bradley R.L.**, Preston C. and Munson A. (2007) Soil enzyme inhibition by condensed litter tannins may drive ecosystem structure and processes : the case of *Kalmia angustifolia*. *New Phytologist* 175: 535-546.
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51. Lapointe B., **Bradley R.L.**, Parsons W., Brais S. (2006). Nutrient and light availability to white spruce seedlings in partial and clearcut harvested aspen stands. *Silva Fennica* 40: 459-471.
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57. Grenon F., **Bradley R.L.**, Jones M., Shipley B., Peat H. (2005) Soil factors controlling mineral N uptake by *Picea engelmannii* seedlings: the importance of gross NH_4^+ production rates. *New Phytologist* 165: 791-800.
58. Lapointe B., **Bradley R.L.**, Shipley B. (2005) Mineral nitrogen and microbial dynamics in the forest floor of clearcut or partially harvested successional boreal forest stands. *Plant and Soil* 271: 27-37.
59. Sommerville D., **Bradley R.L.**, Maily, D. (2004) Leaf litter quality and decomposition rates of yellow birch and sugar maple seedlings grown in mono- and mixed-culture pots at three soil fertility levels. *Trees Structure and Function* 18: 608-613.
60. Grenon F., **Bradley R.L.**, Titus B.D. (2004) Temperature sensitivity of mineral N transformation rates, and heterotrophic nitrification: possible factors controlling the post-disturbance mineral N flush in forest floors. *Soil Biology & Biochemistry* 36: 1465-1474.
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64. Lavoie M. and **Bradley R.L.** (2003). Inferred effects of cloud deposition on forest floor nutrient cycling and microbial properties along a short elevation gradient. *Environmental Pollution* 121: 333-344.
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