

# Dr. Deirdre Rooney

BSc (Hons) Botany (University College Dublin)

PhD Microbial Ecology of Upland Grasslands (University College Dublin)



## Research Interests

- Plant soil interactions in natural and managed ecosystems
- Microbial ecology of agricultural soils
- Behavioural trends of translocated *Chrysolina graminis* (current student project)

## Recent publications

Allan, M., Chambers, L. and **Rooney, D.C.** 2016. Biochar: A tool for remediation of contaminated soils? *In preparation*.

**Rooney, D.C.**, Prosser, J. I., Bending, G. D., Baggs, E. M., Killham, K., Hodge A. 2012. Effect of arbuscular mycorrhizal colonisation on the growth and phosphorus nutrition of *Populus euramericana* c.v. Ghoy. *Biomass and Bioenergy* 35, 4605-4612

**Rooney D.C.**, Kennedy N., Gleeson D.B. and Clipson N. 2010. Responses of ammonia-oxidising bacterial communities to nitrogen, lime and plant species in upland grassland soil. *Applied and Environmental Soil Science* Article ID 319721, doi:10.1155/2010/319721.

**Rooney D.C.**, Hutchens E., McDermott F. and Clipson N. 2010. Microbial community structure of moonmilk deposits and cave sediments in Ballinamintra Cave, Ireland. *Microbial Ecology* 60 (4), 753-761.

**Rooney D.C.**, Killham K., Bending G., Baggs E. and Hodge A. 2009. Mycorrhizas and biomass crops: opportunities for future sustainable development. *Trends in Plant Science* 14 (10), 542-549.

Carson J.K., Campbell L., **Rooney D.C.**, Clipson N. and Gleeson D.B. 2009. Minerals in soils select distinct bacterial communities in their microhabitats. *FEMS Microbiology Ecology* 67 (3), 381-388.

**Rooney D.C.** and Clipson N. 2009. Synthetic sheep urine affects fungal community structure in an upland grassland soil. *Fungal Ecology* 2 (1), 36-43.

**Rooney D.C.** and Clipson N. 2008. Impact of sheep urine deposition and plant species on ammonia-oxidising bacteria in upland grassland soil. *Canadian Journal of Microbiology* 54, 1-6.

**Rooney D.C.** and Clipson N. 2008. Phosphate addition and plant species alters microbial community structure in acidic upland grassland soil. *Microbial Ecology* 57 (1), 4-13.

**Rooney D.C.**, Kennedy N., Deering L., Gleeson D.B. and Clipson N. 2006. The effects of sheep urine deposition on microbial community structure in an acidic upland grassland soil. *Applied and Environmental Microbiology* 72 (11), 7231-7237.

## Reviewer for journals

- Journal for Nature Conservation
- Plant and Soil
- Fungal Ecology

