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Research Only
Earth and Environmental Sciences - Academic & Research

Employment

Research Associate

Research Only
Earth and Environmental Sciences - Academic & Research
The University of Manchester
1 Aug 2019 → present

Research Associate

Research Only
School of Earth and Environmental Sciences
1 Aug 2016 → 31 Jul 2019

Research outputs

Adapting to environmental change

Fry, E., Zhu, F. & Greenwood, B., Mar 2020, *Microbiomes of soils, plants and animals: an integrated approach*. Antwis, R. E., Harrison, X. A. & Cox, M. J. (eds.). UK: Cambridge University Press, p. 154-181 27 p. (Ecological Reviews).
DOI: 10.1017/9781108654418 <https://doi.org/10.1017/9781108654418.008>

Microbial biotechnology

Antwis, R. E., Fry, E., James, C. E. & Ferry, N., Mar 2020, *Microbiomes of soils, plants and animals: an integrated approach*. Antwis, R. E., Harrison, X. A. & Cox, M. J. (eds.). UK : Cambridge University Press, p. 182-221 40 p.
DOI: 10.1017/9781108654418 <https://doi.org/10.1017/9781108654418.009>

TRY plant trait database – enhanced coverage and open access

The Nutrient Network, 1 Jan 2020, In: *Global Change Biology*. 26, 1, p. 119-188 70 p.
DOI: 10.1111/gcb.14904

The role of plant litter in driving plant-soil feedbacks

Veen, G. F. C., Fry, E., ten Hooven, F., Kardol, P., Morriën, E. & De Long, J., 22 Oct 2019, In: *Frontiers in Environmental Science*. 7, p. 1-10 10 p.
DOI: 10.3389/fenvs.2019.00168

Why are plant–soil feedbacks so unpredictable, and what to do about it?

De Long, J., Fry, E., Veen, G. F. C. & Kardol, P., 21 Jan 2019, In: *Functional Ecology*. 33, p. 118-128 10 p.
DOI: 10.1111/1365-2435.13232

Drought soil legacy overrides maternal effects on plant growth

De Long, J. R., Semchenko, M., Pritchard, W. J., Cordero, I., Fry, E. L., Jackson, B. G., Kurnosova, K., Ostle, N. J., Johnson, D., Baggs, E. M. & Bardgett, R. D., 2019, In: *Functional Ecology*.
DOI: 10.1111/1365-2435.13341

Root architecture governs plasticity in response to drought.

Fry, E., Hall, A., Sturrock, C. J., Bullock, J. & Bardgett, R., Dec 2018, In: *Plant and Soil*. 433, p. 189-200 11 p.
DOI: 10.1007/s11104-018-3824-1

Drought reduces floral resources for pollinators

Phillips, B. B., Shaw, R. F., Holland, M. J., Fry, E., Bardgett, R., Bullock, J. M. & Osborne, J. L., 7 Jun 2018, In: *Global Change Biology*. 24, 7, p. 3226-3235 10 p.
DOI: 10.1111/gcb.14130

Plant communities as modulators of soil carbon storage

Fry, E., De Long, J. & Bardgett, R., 18 Apr 2018, *Soil carbon storage: modulators, mechanisms and modeling*. Singh, B. K. (ed.). Academic Press, p. 29-58 29 p.
DOI: 10.1016/C2016-0-03949-9

Drought neutralises plant-soil feedback of two mesic grassland forbs

Fry, E. L., Johnson, G. N., Hall, A. L., Pritchard, W. J., Bullock, J. M. & Bardgett, R. D., Apr 2018, In: *Oecologia*. 186, 4, p. 1113-1125 13 p.
DOI: 10.1007/s00442-018-4082-x

Plant attributes explain the distribution of soil microbial communities in two contrasting regions of the globe.

Delgado-Baquerizo, M., Fry, E., Eldridge, D. J., De Vries, F., Manning, P., Hamonts, K., Kattage, J., Boenisch, G., Singh, B. K. & Bardgett, R., 2018, In: *New Phytologist*.
DOI: 10.1111/nph.15161

Soil multifunctionality and drought resistance are determined by plant structural traits in restoring grassland.

Fry, E., Savage, J., Hall, A., Oakley, S., Pritchard, W., Ostle, N. J., Pywell, R. F., Bullock, J. M. & Bardgett, R., 2018, In: *Ecology*.
DOI: 10.1002/ecy.2437

Using plant, microbe and soil fauna traits to improve the predictive power of biogeochemical models

Fry, E., De Long, J., Álvarez Garrido, L., Alvarez, N., Carrillo, Y., Castañeda-Gómez, L., Chomel, M., Dondini, M., Drake, J. E., Hasegawa, S., Hortal, S., Jackson, B. G., Jiang, M., Lavallee, J. M., Medlyn, B. E., Rhymes, J., Singh, B. K., Smith, P., Anderson, I. C., Bardgett, R. & 2 others, Baggs, E. M. & Johnson, D., 2018, In: *Methods in Ecology and Evolution*.
DOI: 10.1111/2041-210X.13092

Fifty important questions in microbial ecology

Antwis, R., Griffiths, S., Harrison, X., Aranega-Bou, P., Arce, A., Brailsford, F., de Menezes, A., Devaynes, A., Forbes, K., Fry, E., Goodhead, I., Haskell, E., James, C., Johnston, S., Lewis, G., Lewis, Z., Macey, M., McCarthy, A., McDonald, J., Mejia Florez, N. & 7 others, O'Brien, D., Orland, C., Pautasso, M., Reid, W., Robinson, H., Wilson, K. & Sutherland, W., 2017, In: *FEMS Microbiology Ecology*. FEMSEC-16-11-0599.R2.
DOI: 10.1093/femsec/fix044

Plant, Soil, and Microbial Controls On Grassland Diversity Restoration: A Long-term, Multi-site Mesocosm Experiment

Fry, E., Pilgrim, E. S., Tallowin, J. R. B., Smith, R. S., Mortimer, S. R., Beaumont, D. A., Simkin, J. M., Harris, S., Shiel, R. S., Quirk, H., Harrison, K., Lawson, C. S., Hobbs, P. J. & Bardgett, R., 2017, In: *Journal of Applied Ecology*.
DOI: 10.1111/1365-2664.12869

Shifts in microbial communities do not explain the response of grassland ecosystem function to plant functional composition and rainfall change

Fry, E., Manning, P., Macdonald, C. A., Hasegawa, S., De Palma, A., Power, S. A. & Singh, B. K., 28 Oct 2015, In: *Soil Biology and Biochemistry*. 92, p. 199-210 11 p.
DOI: 10.1016/j.soilbio.2015.10.006

Seasonal variation in the capacity for plant trait measures to predict grassland carbon and water fluxes

Everwand, G., Fry, E., Eggers, T. & Manning, P., 1 Sep 2014, In: *Ecosystems*. 17, 6, p. 1095-1108 13 p.

Ecosystem functions are resistant to extreme changes to rainfall regimes in a mesotrophic grassland.

Fry, E., Manning, P. & Power, S. A., 1 Aug 2014, In: *Plant and Soil*. 381, 1-2, p. 351-365 14 p.

Plant Functional Group Composition Modifies the Effects of Precipitation Change on Grassland Ecosystem Function

Fry, E. L., Manning, P., Allen, D. G. P., Hurst, A., Everwand, G., Rimpler, M. & Power, S. A., 20 Feb 2013, In: *PLoS ONE*. 8, 2, e57027.
DOI: 10.1371/journal.pone.0057027

Trait-based classification and manipulation of plant functional groups for biodiversity–ecosystem function experiments
Fry, E. L., Power, S. A. & Manning, P., Feb 2013, In: Journal of Vegetation Science. 25, 1, p. 248-261 14 p.

Press/Media

BBC NORTH WEST TONIGHT: Wildfires and peat

Ellen Fry

29/06/18

1 item of Media coverage

I NEWS: Saddleworth Moor could take a decade to recover after 'apocalyptic' blaze, wildlife chiefs warn

Ellen Fry

28/06/18

1 Media contribution

MAIL ONLINE: Droughts mean fewer flowers for bees

Ellen Fry

12/04/18

1 item of Media coverage

XINHUA: Scientists develop way of saving Britain's disappearing chalklands

Richard Bardgett & Ellen Fry

21/08/18

1 item of Media coverage

Datasets