

Publications

Publications listed between 1 October 2008 and 31 September 2009 are classified in the following manner:

- J Papers describing original research in refereed journals.
- R Books, book chapters and reviews in books – provided each has been edited externally
- P Published proceedings of contributions to conferences or learned societies (including published abstracts)
- O Popular articles and unrefereed publications

Abreu, I.N., Angeli, S., Polle, A., Moritz, S., Albrechtsen, B. & Fischer, U. 2010. Bacterial auxin biosynthesis genes cause stomatal opening during avirulent *Pseudomonas syringae* PV tomato–poplar interaction. *20th International Conference of Plant Growth Substances*, Tarragona, Spain, 28 June–2 July 2010 (Poster). P

Abreu, I.N., Kanichukattu, E.N., Gordon, S.L., Brennan, R.M. & Stewart, D. 2009. Are polyphenols viable targets for soft fruit breeding? A model study on blackcurrant. *4th International Conference on Polyphenols and Health*, Harrogate, UK, 7–11 December 2009 (Poster). P

Abreu, I.N., Kanichukattu, E.N., Gordon, S.L., Brennan, R.M. & Stewart, D. 2010. Metabolomics as a potential selection tool for novel traits in soft fruit breeding programs. *6th Metabolomics Society Conference*, Amsterdam, The Netherlands, 27 June–1 July 2010 (Talk). P

Abreu, I.N., Kanichukattu, E.N., Sungurtas, J., Verrall, S.R. & Stewart, D. 2010. Metabolomics as a route to fruit flavour and functionality: blackcurrant as a model study. *28th International Horticultural Congress*, Lisbon, Portugal, 22–27 August 2010 (Poster and Talk). P

Agu, R.C., Swanston, J.S., Walker, J.W., Pearson, S.Y., Bringham, T.A., Brosnan, J.M. & Jack, F.R. 2009. Predicting alcohol yield from UK soft winter wheat for grain distilling: combined influence of hardness and nitrogen measurements. *Journal of the Institute of Brewing* **115**, 183–190. J

Al-Mrabeh, A., Anderson, E.A., Torrance, L., Evans, A. & Fenton, B. 2010. A literature review of insecticide and mineral oil use in preventing the spread of non-persistent viruses in potato crops. Potato Council Ltd, Stoneleigh, **June 2010**, 65pp. http://www.potato.org.uk/departments/research_and_development/publications/index.html O

Almoosawi, S., McDougall, G.J., Fyfe, L. & Al-Dujaili, E.A.S. 2010. Investigating the inhibitory activity of green coffee and cacao bean extract on pancreatic lipase. *Nutrition Bulletin* **35**, 207–212. <http://dx.doi.org/10.1111/j.1467-3010.2010.01841.x> J

Anandanadesan, A., Chaplain, M., Hubbard, S.F. & Karley, A.J. 2010. Mathematical modelling of the spatio-temporal dynamics of aphid–parasitoid–plant–virus interactions. *British Ecological Society Annual Meeting 2010*, Leeds, UK, 7–9 September 2010 (Poster). P

Andrews, M., Hodge, S. & Raven, J.A. 2010. Positive plant–microbial interactions. *Annals of Applied Biology* **157**, 317–320. <http://dx.doi.org/10.1111/j.1744-7348.2010.00440.x> J

Andrews, M., Maule, H.G., Hodge, S., Cherrill, A. & Raven, J.A. 2009. Seed dormancy, nitrogen nutrition and

shade acclimation of *Impatiens glandulifera*: implications for its successful invasion of a deciduous woodland. *Plant Ecology and Diversity* **2**, 145–153. <http://dx.doi.org/10.1080/17550870903186256> J

Andrews, M., Raven, J.A. & Hodge, J. 2009. The role and potential of microorganisms in crop nutrition: An overview. *Association of Applied Biologists. International Conference on Positive Plant Microbial Interactions in Relation to Plant Performance and Ecosystem Function*, Grantham, Lincs, UK, 15–16 December 2009 (Talk). *Aspects of Applied Biology* **98**, 157–158. P

Armstrong, M.R., Boevink, P., Bukharova, T., McLellan, H., Ramos, M., Gilroy, E.M., Pritchard, L., Whisson, S.C., Beynon, J. & Birch, P.R.J. 2010. Identifying candidate host 'targets' of *Phytophthora infestans* translocated RXLR proteins. *Oomycete Molecular Genetics Network Congress*, Toulouse, France, 6–8 June 2010. P

Atkins, S.D., Fitt, B.D.L., Fraaije, B., Harvey, S., Lynott, J. & Newton, A.C. 2010. The epidemiological importance of asymptomatic infection of winter barley by *Rhynchosporium secalis* and its consequences for crop protection and breeding. *Proceedings Crop Protection in Northern Britain 2010*, Dundee, Scotland, 23–24 February, 2010, 81–86 (Talk). P

Atkins, S.D., King, K., Fraaije, B. & Newton, A.C. 2010. *Rhynchosporium secalis*: a historical perspective. *Proceedings Crop Protection in Northern Britain 2010*, Dundee, Scotland, 23–24 February 2010, 103–108 (Talk). P

Bacon, S., Rena, G., Stewart, D. & McDougall, G.J. 2009. Polyphenol regulators of FoxO1a: implications for diabetes and dementia. *4th International Conference on Polyphenols and Health*, Harrogate, UK, 7–11 December 2009 (Poster). P

Bagavathiannan, M.V., Gulden, R.H., Begg, G.S. & Van Acker, R.C. 2010. The demography of feral alfalfa (*Medicago sativa* L.) populations occurring in road side habitats in southern Manitoba, Canada: Implications for novel trait confinement. *Environmental Science and Pollution Research* **17**, 1448–1459. <http://dx.doi.org/10.1007/s11356-010-0330-2> J

Banks, G., Young, M.W. & Squire, G.R. 2010. Increase and isolation of feral oilseed rape over 11 years in an agricultural region. *2nd International Conference on Implications of GM Crop Cultivation at Large Spatial Scales*, Bremen, Germany, 25–26 March 2010 (Talk). P

Barrett, G., Campbell, C.D., Fitter, A.H. & Hodge, A. 2010. The importance of being a little myco-centric: How do direct temperature responses by arbuscular mycorrhizal fungi influence plant growth and nutrition? *Society for Experimental Biology. Annual Main Meeting 2010*, Prague, Czech Republic, 30 June–3 July 2010 (Talk). http://sebiology.org/meetings/Past_Meetings/prague/Documents/Abstracts_Index.pdf P



- Barrett, G., Wishart, J. & George, T.S.** 2010. The genetic basis of phosphorus use efficiency in barley. *Spring School - RNAi and the World of Small RNA Molecules*, Wageningen University, The Netherlands, 14–16 April 2010 (Poster). P
- Bartlett, M.D., Briones, M.J.I., Neilson, R., Schmidt, O., Spurgeon, D. & Creamer, R.E.** 2010. A critical review of current methods in earthworm ecology: From individuals to populations (Review). *European Journal of Soil Biology* **46**, 67–73. <http://dx.doi.org/10.1016/j.ejsobi.2009.11.006> J
- Beale, C.M., Lennon, J.J., Yearsley, J.M., Brewer, M.J. & Elston, D.A.** 2010. Regression analysis of spatial data. *Ecology Letters* **13**, 246–264. <http://dx.doi.org/10.1111/j.1461-0248.2009.01422.x> J
- Begg, G.S., Birch, A.N.E., Iannetta, P.P.M., Young, M.W. & Squire, G.R.** 2010. Engineering arable landscapes to balance the pros and cons of weeds. *IOBC/wprs Working Group Meeting – Landscape Management for Functional Biodiversity*, Cambridge, UK, 22 June–1 July 2010. *IOBC/wprs Bulletin* **56**, 13–16. P
- Bek, A.S., Sauer, J., Thygesen, M.B., Duus, J.Ø., Petersen, B.O., Thirup, S., James, E.K., Jensen, K.J., Stougaard, J. & Radutoiu, S.** 2010. Improved characterisation of nod factors and genetically based variation in LysM receptor domains identify amino acids expendable for nod factor recognition in *Lotus* spp. *Molecular Plant–Microbe Interactions* **23**, 58–66. <http://dx.doi.org/10.1094/MPMI-23-1-0058> J
- Bengough, A.G., Hans, J., Bransby, M.F. & Valentine, T.A.** 2010. PIV as a method for quantifying root cell growth and particle displacement in confocal images. *Microscopy Research and Technique* **73**, 27–36. <http://dx.doi.org/10.1002/jemt.20749> J
- Bengough, A.G., Valentine, T.A. & McKenzie, B.M.** 2010. Pushing through hard soil — do root hairs grip the soil and aid root penetration? *Society for Experimental Biology. Annual Main Meeting 2010*, Prague, Czech Republic, 30 June–3 July 2010 (Talk). http://sebiology.org/meetings/Past_Meetings/prague/Documents/Abstracts_Index.pdf P
- Berdeaux, O., Gregoire, S., Fournier, C., Christie, W.W., Lambelet, P. & Sébédio, J.L.** 2010. Detection of lactobacillic acid in low erucic rapeseed oil – A note of caution when quantifying cyclic fatty acid monomers in vegetable oils. *Chemistry and Physics of Lipids* **163**, 698–702. <http://dx.doi.org/10.1016/j.chemphyslip.2010.07.002> J
- Berepiki, A., Lichius, A., Shoji, J.Y., Tilsner, J. & Read, N.D.** 2010. F-actin dynamics in *Neurospora crassa*. *Eukaryotic Cell* **9**, 547–557. <http://dx.doi.org/10.1128/EC.00253-09> J
- Berry, P., Spink, J., Foulkes, J. & White, P.J.** 2010. The physiological basis of genotypic differences in nitrogen use efficiency in oilseed rape (*Brassica napus* L.). *Field Crops Research* **119**, 365–373. <http://dx.doi.org/10.1016/j.fcr.2010.08.004> J
- Bierman, S. & Glasbey, C.A.** 2009. A graphical method for dating chicks using bivariate body measurements. *Journal of Agricultural, Biological and Environmental Statistics* **14**, 443–451. <http://dx.doi.org/10.1198/jabes.2009.08048> J
- Bierman, S., Butler, A., Marion, G. & Kühn, I.** 2010. Bayesian image restoration models for combining expert knowledge on recording activity with species distribution data. *Ecography* **33**, 451–460. <http://dx.doi.org/10.1111/j.1600-0587.2009.05798.x> J
- Bingham, I.J., Bengough, A.G. & Rees, R.M.** 2010. Soil compaction – N interactions in barley: Root growth and tissue composition. *Soil and Tillage Research* **106**, 241–246. <http://dx.doi.org/10.1016/j.still.2009.10.008> J
- Bink, M.C.A.M., Schiex, T. & Marshall, D.F.** 2010. Statistical challenges on the 1,000 Euro genome sequences in plants (EU COST Action TD0801). *Plant & Animal Genome XVIII*, San Diego, California, USA, 9–13 January 2010 (Poster). P
- Birch, A.N.E.** 2010. Book Review: Insect-resistant maize. A case study of fighting the African stem-borer. By J. Burgi. CAB, Wallingford (2009). *Experimental Agriculture* **46**, 418. <http://dx.doi.org/10.1017/s0014479710000153> O
- Birch, A.N.E.** 2010. Food web studies on raspberries. *Knowledge Scotland – Policy Briefing* **137**. <http://www.knowledgescotland.org/briefings.php?id=127> O
- Birch, A.N.E.** 2010. The future central role of IPM in EU crop protection: how can ecological research be put into practice? *Society for Experimental Biology. Food Security and Safety Symposium*, University of Lancaster, UK, 13–15 September 2010 (Talk). P
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- Birch, A.N.E. & Shepherd, T.** 2010. Integrated pest and disease management for high quality raspberry production. *Defra Horticulture LINK Annual Report*, 85pp. O
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- Birch, P.R.J.** 2009. Genomics provides clues to sustainable potato protection. *BBSRC Business Summer 2009*, 10–11. O
- Birch, P.R.J., Armstrong, M.R., Avrova, A.O., Boevink, P., Breen, S., Bryan, G.J., Cooke, D.E.L., Engelhardt, S., Gilroy, E.M., Hein, I., Lees, A.K., McLellan, H., Pritchard, L., Taylor, R., Tian, Z.D., Whisson, S.C., Bos, J., Kamoun, S. & Vleeshouwers, V.G.A.A.** 2009. *Phytophthora infestans*: the potato destroyer. *BSPP Presidential Meeting. Darwin to Disease: Crops and their Pathogens*, Oxford University Museum, UK, 22 September 2009 (Talk). P
- Birch, P.R.J., Armstrong, M.R., Boevink, P., Breen, S., Bukharova, T., Gilroy, E.M., Hein, I., McLellan, H., Pritchard, L., Taylor, R. & Whisson, S.C.** 2010. The host targets and virulence functions of RXLR effectors from the potato late blight pathogen *Phytophthora infestans*. *9th International Mycological Congress. The Biology of Fungi*, Edinburgh, Scotland, 1–6 August 2010 (Talk). P
- Birch, P.R.J., Bos, J.I.B., Armstrong, M.R., Gilroy, E.M., Taylor, R.M., Hein, I., Boevink, P., Breen, S., Pritchard, L., Sadanandom, A., Kamoun, S. & Whisson, S.C.** 2010. Localisation and function of *Phytophthora infestans* RXLR effectors and their host targets. *22nd New Phytologist Symposium on Effectors in Plant–Microbe Interactions*, INRA Versailles Research Centre, Paris, France, 13–6 September 2009 (Talk). P
- Blok, V.C.** 2010. Using molecular diagnostics for plant parasitic nematodes: practical and research applications. *43rd Brazilian Plant Pathology Congress*, Cujaba, Brazil, 16–19 August 2010 (Abstract). P

- Blok, V.C. & Neilson, R.** 2010. The importance of diagnostics to potato production. *Potatoes in Practice 2010*, Balruddery Farm, Dundee, Scotland, 12 August 2010 (Talk). P
- Blok, V.C., Cock, P.J.A., Hunt, M., Hedley, P.E., Morris, J. & Jones, J.T.** 2010. Investigations of the expression of the multipartite mtDNA of *Globodera pallida*. *Society of Nematologists Annual Meeting*, Boise, Idaho, USA, 11–14 July 2010 (Poster). P
- Blok, V.C., Cock, P.J.A., Hunt, M., Hedley, P.E., Morris, J. & Jones, J.T.** 2010. Investigations of the expression of the multipartite mtDNA of *Globodera pallida*. *COST 872. Nematogenics. Exploiting genomics to understand plant–nematode interactions. 4th Annual Meeting*, Lisbon, Portugal, 24–27 May 2010 (Poster). P
- Blok, V.C., Grujic, N., Hoolahan, A., Downton, M., Phillips, M.S. & Cock, P.J.A.** 2010. The mitochondrial genome of potato cyst nematodes: structure and diversity. *3rd Symposium on Potato Cyst Nematodes*, Harper Adams University College, Newport, UK, 14–15 September 2010 (Poster). *Aspects of Applied Biology* **103**, 107. P
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- Brennan, R.M. & Graham, J.** 2009. Improving fruit quality in *Rubus* and *Ribes* through breeding (Invited review). *Functional Plant Science and Biotechnology* **3 Special Issue 1**, 22–29. J
- Brennan, R.M., Jorgensen, L., Hackett, C.A., Bayer, M., Milne, L., Hedley, P.E. & Russell, J.R.** 2010. Marker-assisted breeding in blackcurrant (*Ribes nigrum* L.): present and future prospects. *28th International Horticultural Congress*, Lisbon, Portugal, 22–27 August 2010 (Talk). P
- Broadley, M.R. & White, P.J.** 2009. Eat roots and leaves. Can biofortified horticultural produce address dietary mineral deficiencies in humans? *Nutrition Society Winter Meeting, Food Supply and Quality in a Climate-Changed World*, University of Reading, UK, 15 December 2009 (Invited Talk). P
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Brown, L.K., George, T.S., Thompson, J.A., Wright, G.M., Lyon, J., Hubbard, S.F. & White, P.J. 2010. What are the implications of variation in root hair length on P-limited yield in barley (*Hordeum vulgare* L.)? *Society for Experimental Biology. Annual Main Meeting 2010*, Prague, Czech Republic, 30 June–3 July 2010 (Poster). http://sebiology.org/meetings/Past_Meetings/prague/Documents/Abstracts_Index.pdf P

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