Adrian C Newton - Publication list

Last updated: February 2nd 2011

Refereed publications:

- 80 Newton AC, Johnson SN, Gregory PJ, 2011. Implications of climate change on diseases, crop yields and food security. Euphytica (in press, doi: 10.1007/s10681-011-0359-4).
- 79 Chakraborty S, Newton AC, 2011. Climate change, plant diseases and food security, an overview. Plant Pathology 60, 2-14.
- 78 Thirugnanasambandam A, Wright K, Havis N, Whisson S, Newton AC, 2011. Agrobacterium-mediated transformation of the barley pathogen *Ramularia collo-cygni* with fluorescent marker tags and live tissue imaging of infection development. Plant Pathology (in press).
- 77 Thirugnanasambandam A, Wright KM, Whisson SC, Atkins SD, Newton AC, 2011. Infection of Rrs1 barley by an incompatible race of the fungus, *Rhynchosporium secalis*, expressing the green fluorescent protein. Plant Pathology (in press, doi: 10.1111/j.1365-3059.2010.02393.x).
- 76 Newton AC, Gravouil C, Fountaine JM, 2010. Managing the ecology of foliar pathogens: ecological tolerance in crops. Annals of Applied Biology 157, 343-359.
- 75 Newton AC, Fitt BDL, Atkins SD, Walters DR, Daniell T, 2010. Pathogenesis, mutualism and parasitism in the trophic space of microbe-plant interactions. Trends in Microbiology 18, 365-373.
- 74 Newton AC, Duncan JM, Augustin NH, Guy DC, Cooke DEL, 2010. Survival, distribution and genetic variability of inoculum of the strawberry red core pathogen, *Phytophthora fragariae* var. *fragariae*, in soil. Plant Pathology 59, 472-479.
- 73 George TS, Brown LK, Newton AC, Hallett PD, Thomas W, White PJ, 2011. Impact of soil tillage on the robustness of the genetic component of variation in phosphorus (P) use efficiency in barley (*Hordeum vulgare* L.). 'Proceedings of the International Plant Nutrition Colloquium, Plant and Soil 339, 113-123.
- 72 Newton AC, Aker T, Baresel JP, Bebeli P, Bettencourt E, Bladenopoulos KV, Czembor JH, Fasoula DA, Katsiotis A, Koutis K, Koutsika-Sotiriou M, Kovacs G, Larsson H, Pinheiro de Carvalho MAA, Rubiales D, Russell J, dos Santos TMM, Vaz Patto MC, 2010. Cereal landraces for sustainable agriculture: a review. Agronomy for Sustainable Development 30, 237-269.
- 71 Gregory PJ, Johnson SN, Newton AC, Ingram JSI, 2009. Integrating pests and pathogens into the climate change/food security debate. Journal of Experimental Botany 60, 2827-2838.
- 70 Newton AC, Begg G, Swanston JS, 2009. Deployment of diversity for enhanced crop function. Annals of Applied Biology 154, 309-322.
- 69 Newton AC, Guy DC, 2009. The effects of uneven, patchy cultivar mixtures on disease control and yield in winter barley. Field Crops Research 110, 225-228.
- 68 Marshall B, Newton AC, Zhan J, 2009. Quantitative evolution of aggressiveness of powdery mildew in a two-cultivar barley mixture. Plant Pathology 58, 378-388.
- 67 Newton AC, Hackett CA, Swanston JS, 2008. Analysing the contribution of component cultivars and cultivar combinations to malting quality, yield and disease in complex mixtures.

 Journal of the Science of Food and Agriculture 88, 2142-2152.
- 66 Zhan J, Fitt BDL, Pinnschmidt HO, Oxley SJP, Newton AC, 2008. Resistance, epidemiology and sustainable management of *Rhynchosporium secalis* populations on barley. Plant Pathology 57, 1-14.
- 65 Swanston JS, Newton AC, Hoad S, Spoor W, 2006. Variation across environments in patterns of water uptake and endosperm modification in barley varieties and variety mixtures. Journal of the Science of Food and Agriculture 86, 826-833.

- 64 Walters D, Walsh D, Newton A, Lyon G, 2005. Induced resistance for plant disease control: maximising the efficacy of resistance elicitors. Phytopathology, 95, 1368-1373.
- 63 Swanston JS, Newton AC, Hoad S, Spoor W, 2005. Barleys grown as cultivar mixtures, compared with blends made before and after malting, for effects on malting performance. Journal of the Institute of Brewing 111, 144-152.
- 62 Walters D, Newton AC, Lyon GD, 2005. Induced resistance: helping plants to help themselves in the fight against disease. The Biologist 52, 28-33.
- 61 Swanston JS, Newton AC, Brosnan JM, Broadhead A, Glasgow E, 2005. Determining the Spirit Yield of Wheat Varieties and Variety Mixtures. Journal of Cereal Science 42, 127-134.
- 60 Newton AC, Toth IK, Neave P, Hyman L, 2004. Bacterial inoculum from a previous crop affects fungal disease development on subsequent non-host crops. New Phytologist 163, 133-138.
- 59 Newton AC, Hackett C, Lowe, R, Wale S, 2004. Relationship between canopy reflectance and yield loss due to disease in barley. Annals of Applied Biology 145, 95-106.
- 58 Goodman BA, Newton AC, 2005. Effects of drought stress and its sudden relief on free radical processes in barley. Journal of the Science of Food and Agriculture 85, 47-53.
- 57 Swanston JS, Newton AC, 2005. Ecologically benign approaches to agricultural practice for bioethanol and by-product production from UK wheat. Journal of Industrial Ecology 9, 109-126.
- 56 Hein I, Campbell E, Woodhead M, Hedley P, Young V, Morris W, Ramsey L, Stockhaus J, Lyon GD, Newton AC, Birch PRJ, 2004. Characterisation of early transcriptional changes involving multiple signalling pathways in the *Mla13* barley interaction with Powdery Mildew (*Blumeria graminis* f.sp. *hordei*). Planta 218, 803-813.
- 55 Newton AC, Lees A, Hilton A, Thomas WTB, 2003. Susceptibility of oat cultivars to blackened groats: causes and remedies. Plant Breeding 122, 125-130.
- 54 Newton AC, Guy DC, Campbell E, Thomas WTB, 2003. The effect of variable environment on inducible powdery mildew resistance expression in barley. Journal of Plant Disease and Protection 110, 113-119.
- 53 Lyon GD, Newton AC, Marshall B, 2002. The need for a standard nomenclature for gene classification (a Nucleotide Function Code) and an automated data-based tool to assist in understanding the molecular associations in cell signalling in plant-pathogen interactions. Molecular Plant Pathology 3, 103-109.
- 52 Durban M, Hackett CA, McNicol JW, Newton AC, Thomas WTB, Currie ID, 2003. The practical use of semi-parametric models in field trials. Journal of Agricultural, Biological and Environmental Statistics 8, 48-66.
- 51 Newton AC, Guy DC, Nadziak J, Gacek E, 2002. The effect of inoculum pressure, germplasm selection and environment on spring barley cultivar mixtures efficacy. Euphytica 125, 325-335.
- 50 Newton AC, Searle J, Hackett CA, Cooke DEL, 2001. Variability in pathotype, aggressiveness, RAPD profile, and rDNA ITS1 sequences of UK isolates of *Rhynchosporium secalis*. Journal of Plant Disease and Protection 108, 446-458.
- 49 Lyngkjær MF, Newton AC, Atzema JL, Baker SJ, 2000. The barley *mlo*-gene an important powdery mildew resistance source. Agronomie: Plant Genetics and Breeding 20, 745-756.
- 48 de Vallavieille-Pope C, Giosue S, Munk L, Newton AC, Niks R, Østergård H, Pons J, Rossi V, Sache I, 2000. Assessment of epidemiological parameters and their use in epidemiological and forecasting models of cereal airborne diseases. Agronomie: Plant Genetics and Breeding 20, 715-727.
- 47 Finckh MR, Gacek ES, Goyeau H, Lannou C, Merz U, Mundt CC, Munk L, Nadziak J, Newton AC, de Vallavieille-Pope C, Wolfe MS, 2000. Cereal variety and species mixtures in practice,

- with emphasis on disease resistance. Agronomie: Plant Genetics and Breeding 20, 813-837.
- 46 Forster BP, Ellis RP, Thomas WTB, Newton AC, Tuberosa R, This D, El-Enein RA, Bahri MH, Ben Salem M, 2000. The development and application of molecular markers for abiotic stress tolerance in barley. Journal of Experimental Botany 51, 18-27.
- 45 Swanston JS, Gacek E, Guy DC, Newton AC, 2000. Malting performance of barley cultivar mixtures from the UK and Poland. Journal of the Institute of Brewing 106, 239-243.
- 44 Newton AC, Guy DC, Gaunt RE, Thomas WTB, 2000. The effect of powdery mildew inoculum pressure and fertiliser level on disease tolerance in spring barley. Journal of Plant Diseases and Protection 107, 67-73.
- 43 Caten CE, Newton AC, 2000. Variation in cultural characteristics, pathogenicity, vegetative compatibility and electrophoretic karyotype within field populations of *Stagonospora nodorum*. Plant Pathology 49, 219-226.
- 42 Newton AC, Toth IK, 1999. Helper bacteria and pathogenicity assessments. New Phytologist 144, 385-386.
- 41 Baker SJ, Newton AC, Gurr SJ, 2000. Cellular characteristics of temporary partial breakdown of *mlo*-resistance in barley to powdery mildew. Physiological and Molecular Plant Pathology 56, 1-11.
- 40 Newton AC, Hackett CA, Guy DC, 1998. Diversity and complexity of *Erysiphe graminis* f.sp. *hordei* collected from barley cultivar mixtures or barley plots treated with a resistance elicitor. European Journal of Plant Pathology 104, 925-931.
- 39 Newton AC, Guy DC, 1998. Exploration and exploitation strategies of powdery mildew on barley cultivars with different levels of nutrients. European Journal of Plant Pathology 104, 829-833.
- 38 Baker SJ, Newton AC, Crabb D, Guy, DC, Jefferies RA, MacKerron DKL, Thomas WTB, Gurr SJ, 1998. Temporary partial breakdown of *mlo*-resistance in spring barley by sudden relief of soil water-stress under field conditions: the effects of genetic background and *mlo* allele. Plant Pathology 47, 401-410.
- 37 Newton AC, Swanston JS, Guy DC, Ellis RP, 1998. The effect of cultivar mixtures on malting quality in winter barley. Journal of the Institute of Brewing 104, 41-45.
- 36 Newton AC, Osbourn AE, Caten CE, 1998. Heterokaryosis and vegetative incompatibility in *Stagonospora nodorum*. Mycologia 90, 215-225.
- 35 Newton AC, Dashwood EP, 1998. The interaction of humidity and resistance elicitors on expression of polygenic resistance of barley to mildew. Journal of Phytopathology 146, 123-130.
- 34 Newton AC, Thomas WTB, Guy DC, Gaunt R, 1998. The interaction of fertiliser treatment with tolerance to powdery mildew in spring barley. Field Crops Research 55, 45-56.
- 33 Newton AC, Ellis RP, Hackett CA, Guy DC, 1997. The effect of component number on *Rhynchosporium secalis* infection and yield in mixtures of winter barley cultivars. Plant Pathology 46, 930-938.
- 32 Jennings JM, Newton AC, Buck KW, 1997. Detection of polymorphism in *Puccinia hordei* using RFLP and RAPD markers, differential cultivars, and analysis of the intergenic spacer region of rDNA. Journal of Phytopathology 145, 511-519.
- 31 Lyon GD, Newton AC, 1997. Do resistance elicitors offer new opportunities in integrated disease control strategies? Plant Pathology 46, 636-641.
- 30 Newton AC, Young IM, 1996. Temporary partial breakdown of Mlo-resistance in spring barley by the sudden relief of soil water stress. Plant Pathology 45, 970-974.

- 29 Rohe M, Searle J, Newton AC, Knogge W, 1996. Transformation of the plant pathogenic fungus *Rhynchosporium secalis*. Current Genetics 29, 587-590.
- 28 Hackett CA, Reglinski T, Newton AC, 1995. Use of additive models to represent trends in barley field trials. Annals of Applied Biology 127, 391-403.
- 27 Reglinski T, Lyon GD, Newton AC, 1995. The control of *Botrytis cinerea* and *Rhizoctonia solani* on lettuce using elicitors extracted from yeast cell walls. Journal of Plant Disease and Protection 102, 257-266.
- 26 Newton AC, Andrivon D, 1995. Assumptions and implications of current gene-for-gene hypotheses. Plant Pathology 44, 607-618.
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- 23 Reglinski T, Lyon GD, Newton AC, 1994. Induction of resistance mechanisms in barley by yeast-derived elicitors. Annals of Applied Biology 124, 509-517.
- 22 Newton AC, Thomas WTB, 1994. Detection of tolerance of barley cultivars to infection by powdery mildew (*Erysiphe graminis* f.sp. *hordei*). Euphytica 75, 179-187.
- 21 Goleniewski G, Newton AC, 1994. Modelling the spread of fungal diseases using a nearest neighbour approach: the effect of geometrical arrangement. Plant Pathology 43, 631-643.
- 20 Reglinski T, Newton AC, Lyon GD, 1994. Assessment of the ability of yeast-derived elicitors to control barley powdery mildew in the field. Journal of Plant Disease and Protection 101, 1-10.
- 19 Newton AC, Thomas WTB, 1993. Evaluation of sources of partial resistance to mildew in barley using enzyme linked immunosorbent assay and other assessment methods. Euphytica 66, 27-34.
- 18 Newton AC, Reglinski T, 1993. An enzyme-linked immunosorbent assay for quantifying mildew biomass. Journal of Plant Disease and Protection 100, 176-179.
- 17 Newton AC, Thomas WTB, 1993. The interaction of either an effective or a defeated major gene with non-specific resistance on mildew infection (*Erysiphe graminis* f.sp. *hordei*) and yield in mixtures of barley. Journal of Phytopathology 139, 268-274.
- 16 Newton AC, 1993. The effect of humidity on expression of partial resistance to powdery mildew in barley. Plant Pathology 42, 364-367.
- 15 Newton AC, 1992. Selection for aggressiveness towards partial resistance in barley by *Erysiphe graminis* f.sp. *hordei*. Journal of Phytopathology 136, 165-169.
- 14 Newton AC, Thomas WTB, 1992. The effect of specific and non-specific resistance in mixtures of barley genotypes on infection by mildew (*Erysiphe graminis* f.sp. *hordei*) and on yield. Euphytica 59, 73-81.
- 13 Newton AC, Caten CE, 1991. Characteristics of strains of *Septoria nodorum* adapted to wheat or to barley. Plant Pathology 40, 546-553.
- 12 Newton AC, McGurk L, 1991. Recurrent selection for adaptation of *Erysiphe graminis* f.sp. *hordei* to partial resistance and the effect on expression of partial resistance of barley. Journal of Phytopathology 132, 328-338.
- 11 Newton AC, 1991. Isozyme variability in isolates of some facultative phytopathogenic fungi. Journal of Phytopathology 131, 199-204.
- 10 Newton AC, 1990. Detection of components of partial resistance to mildew (*Erysiphe graminis* f.sp. *hordei*) incorporated into advanced breeding lines using measurement of fungal cell wall sterol. Plant Pathology 39, 598-602.
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- 7 Newton AC Crute IR, 1989. A consideration of the genetic control of species specificity in fungal plant pathogens and its relevance to a comprehension of the underlying mechanisms. Biological Reviews 64, 35-50.
- 6 Newton AC, 1988. Somatic recombination in *Rhynchosporium secalis*. Plant Pathology 38, 71-74.
- 5 Newton AC, 1988. Mutant instability in *Septoria nodorum*. Transactions of the British Mycological Society 91, 607-610.
- 4 Newton AC, Caten CE, 1988. Auxotrophic mutants of *Septoria nodorum* isolated by direct screening and by selection for resistance to chlorate. Transactions of the British Mycological Society 90, 199-207.
- 3 Newton AC, 1987 Occurrence of double-stranded RNA and virus-like particles in *Septoria* nodorum. Transactions of the British Mycological Society 88, 113-116.
- 2 Newton AC, Johnson R, Caten CE, 1986. Attempted somatic hybridization of *Puccinia striiformis* f.sp. *tritici* and *P. striiformis* f.sp. *hordei*. Plant Pathology 35, 108-113.
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Invited chapters in books:

- 12 Newton AC, Aker T, Baresel JP, Bebeli P, Bettencourt E, Bladenopoulos KV, Czembor JH, Fasoula DA, Katsiotis A, Koutis K, Koutsika-Sotiriou M, Kovacs G, Larsson H, Pinheiro de Carvalho MAA, Rubiales D, Russell J, dos Santos TMM, Vaz Patto MC, 2011. Cereal Landraces for Sustainable Agriculture: A Review. (Chapter 10.) E. Lichtfouse et al. (eds.), Sustainable Agriculture: Volume 2, doi: 10.1007/978-94-007-0394-0 10.
- 11 Swanston JS, Newton AC, 2009. Growing wheat for high alcohol homogeneous and heterogeneous approaches. In: Wheat Crops: Growth, Fertilization and Yield, Frank Columbus (ed). Nova Science Publishers, Inc., Hauppauge, New York, USA.
- 10 Bingham IJ, Newton AC, 2009. Crop tolerance of foliar pathogens: possible mechanisms and potential for exploitation. In: Disease control in crops Biological and environmentally friendly approaches, Edited by Dale Walters, Wiley-Blackwell, Chichester, UK, pp142-161.
- 9 Newton AC, 2009. Plant disease control through the use of variety mixtures. In: Disease control in crops Biological and environmentally friendly approaches, Edited by Dale Walters, Wiley-Blackwell, Chichester, UK, pp162-171.
- 8 Walters D, Lyon GD, Newton AC, 2007. Induced resistance in crop protection: the future, drivers and barriers. In: Induced Resistance for Plant Defence: a sustainable approach to crop protection, Eds: Dale Walters, Gary D Lyon & Adrian C Newton, pp. 243-250. Blackwell Publishing, Oxford, UK.
- 7 Newton AC, Pons-Kühnemann J, 2007. Induced resistance in natural ecosystems and pathogen population biology: exploiting interactions. In: Induced Resistance for Plant Defence: a sustainable approach to crop protection, Eds: Dale Walters, Gary D Lyon & Adrian C Newton, pp. 133-142. Blackwell Publishing, Oxford, UK.
- 6 Newton AC, McRoberts N, Hughes G, 2006. Information technology in plant disease epidemiology. In: The Epidemiology of Plant Diseases, Second Edition, Ed: D Gareth Jones & BM Cooke, pp. 335-356. Kluwer Academic Publishers, Dordrecht.
- 5 Lyon GD, Newton AC, 1999. Implementation of elicitor mediated induced resistance in agriculture. In: Induced plant defenses against pathogens and herbivores, eds: Anurag A. Agrawa, Sadik Tuzun, Elisabeth Bent, pp. 299-318. APS Press, American Phytopathological Society, St Paul, Minneasota.
- 4 Newton AC, Gaunt RE, 1998. Information technology in epidemiology. In: The Epidemiology of Plant Diseases, Ed: D Gareth Jones, pp. 278-292. Kluwer Academic Publishers, Dordrecht.

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- 2 Newton AC, 1997. Cultivar mixtures in intensive agriculture. In: Gene-for-gene relationship in plant parasite interactions. Eds: I R Crute, J Burdon and E Holub, pp. 65-80. CAB International, Wallingford, Oxford.
- 1 Newton AC, 1987. Markers in pathogen populations. In: Genetics and Plant Pathogenesis. (ed. P.R. Day G.J. Jellis), pp.187-194. Blackwells Scientific Publications, Oxford.

Non-refereed publications and knowledge exchange:

- 252 Newton AC, Avrova A, Thirugnanasambandam A, Looseley M, 2011. Asymptomatic infection the Trojan horse of crop production? Scottish Crop Research Annual Report for 2010.
- 251 Newton AC, Toth IK, Holden NJ, 2010. Stopping the benign microbes all around us becoming pathogenic to plants. KnowledgeScotland.org.uk, On-line 1st December 2010 http://www.knowledgescotland.org/briefings.php?id=195
- 250 Newton AC, Toth IK, Holden N, 2011.Implications of climate change for pathogen defence in plants. Society for General Microbiology Spring conference (SGM Spring Conference 2011, 11-14 April, Harrogate International Centre www.sgmharrogate2011.org.uk). HA09 Food Bio Security session.
- 249 Newton AC, Walters DR, 2010. Plant elicitor trial experiments. Horticultural Development Company BGA Committee presentation, SCRI, 4th November 2010.
- 248 Bengough G, Hallett P, McKenzie B, Valentine T, Newton AC, 2010. Determining the phenotypic basis of differential cultivar response to soil physical constraints in winter and spring barley. SSCR presentation 21st October 2010 and written report on project for website.
- 247 Gravouil C, Fountaine J, Macrae A, Hein I, Dickinson M, Newton AC, 2010. Characterisation of barley (*Hordeum vulgare*) phyllosphere. Poster and abstract: 9th International Symposium on Leaf Surface Ecology, Corvalis, 15-18 August 2010.
- 246 Gravouil C, Dickinson M, Newton AC, Hein I,, 2010. Characterisation of the barley phyllosphere and its interactions with Rhynchosporium secalis. Poster: Postgraduate Symposium in Nottingham, 23 & 29 June, 2010.
- 245 Gravouil C, Newton AC, Hein I, Dickinson M, 2010. Effect of a potato bacterial pathogen on barley fungal diseases. Poster: 1st PiCLs Symposium, Dundee, 12-13 May 2010.
- 244 Thirugnanasambandam A, Wright K, Havis N, Whisson S, Atkins S, Newton AC, 2008. Role of seed-borne infection in Rhynchosporium and Ramularia epidemics in barley. HGCA PhD symposium, University of Nottingham, Sutton Bonington, 23rd April 2010.
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- 242 Thirugnanasambandam A, Wright K, Havis N, Whisson S, Atkins S, Newton AC, 2008. Role of seed-borne infection in Rhynchosporium and Ramularia epidemics in barley. HGCA PhD symposium, NIAB, Cambridge, 2nd May 2008.
- 241 Thirugnanasambandam A, Wright K, Havis N, Whisson S, Atkins S, Newton AC, 2008. Role of seed-borne infection in Rhynchosporium and Ramularia epidemics in barley. Molecular Biology of Plant Pathogens, Birnham, 17-19 September 2008.
- 240 Hallett, P.D., Newton, A.C., Bengough, A.G., Binnie, K., Gordon, D.C., Guy, D.C., McKenzie, B.M. & Valentine, T.A. 2006. Do mixed cultivars outperform monocultures under a range of soil tillage practices? ISTRO-2006, International Soil Tillage Research Organization Conference, Kiel, Germany, 23 August-3 September 2006.
- 239 Davis, J., Armengaud, P., Newton, A.C., White, P.J. & Amtmann, A. 2009. Potassium deficiency and JA-dependent responses to biotic stress in barley. University of Glasgow Post Graduate Symposium 2009, Glasgow, UK, 9 June 2009 (Poster).
- 238 Davis, J., Armengaud, P., Newton, A.C., White, P.J. & Amtmann, A. 2009. Potassium deficiency and defence signalling. Regulatory Oxylipins: An International Symposium, Lausanne, Switzerland, 4-6 June 2009 (Poster).
- 237 Davis, J., Armengaud, P., Newton, A.C., White, P.J. & Amtmann, A. 2008. Potassium deficiency and defence signalling. SEB Plant Symposium / GARNet, University of Nottingham, 8-10 September 2008 (Poster).
- 236 Button, D., Heilbronn, J., Ball, L., Natanson, L., Gartland, J., Gartland, K., Marshall, B., Newton, A.C. & Lyon, G.D. 2005. Drastic: A Database Resource for the Analysis of Signal Transduction in Cells. Proceedings of XII International Congress on Molecular Plant-Microbe Interactions, Cancun, Mexico, 17-22 July 2005.
- 235 Newton AC, Jones Z, Wattis J, Hiorns J, Taha I, 2010. Optimising composition and spatial deployment of diversity in agricultural crops for disease control and yield enhancement. Maths in Plant Science Study Group website: www.cpib.ac.uk/PlantStudyGroup/http://www.cpib.ac.uk/2009/problems-and-reports-from-the-third-mppsg/
- 234 Newton AC, Bengough GA, Guy DC, McKenzie BM, Hallett PD, 2010. Effects on yield and disease of interactions between barley cultivars and with soil tillage treatments. Abstract: 9th Conference of the European Foundation for Plant Pathology 'Integrated Plant Disease Management', Évora, Portugal, 15-18 November 2010.
- 233 Newton AC, Atkins SD, Fitt BDL, Fraaije B, Looseley M, 2010. The epidemiological importance of asymptomatic infection of winter barley by *Rhynchosporium secalis* and its consequences for crop protection and breeding. Abstract: 9th Conference of the European Foundation for Plant Pathology 'Integrated Plant Disease Management', Évora, Portugal, 15-18 November 2010.
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- 231 Newton AC, Optimising composition and spatial deployment of diversity in agricultural crops for disease control and yield enhancement. Third Maths in Plant Sciences Study Group, University of Nottingham, 14-17 December 2009. http://www.cpib.ac.uk/wp-content/uploads/MPSSG-3-Newton-proposal.pdf
- 230 Lees AK, Newton AC, Fenton B, Cooke DEL, 2010. Understanding pest and pathogen biodiversity as a key to controlling crop diseases. SCRI Annual Report for 2009.
- 229 Chakraborty S, Newton AC, 2010. Climate change, plant diseases and food security, an overview. In: Climate Change and Plant Diseases: Experimental approaches to understanding and managing disease under a changing climate, Ed Chakraborty S. CABI, Oxford, UK.
- 228 Newton AC, Bengough AG, Guy DC, McKenzie BM, Hallett PD, 2010. Interactions between barley cultivars and soil cultivation effects on yield and disease. Proceedings Crop Protection in Northern Britain, 2010, 137-142.
- 227 Atkins SD, Fitt BDL, Fraaije B, Lucas JA, Stonard JF, Lynott J, Newton AC, 2010. The epidemiological importance of asymptomatic infection of

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- 226 Atkins SD, King K, Fraaije, Newton AC, 2010. *Rhynchosporium secalis*: a historical perspective. Proceedings Crop Protection in Northern Britain, 2010, 103-108.
- 225 Newton AC, 2009. Foliar pathogens of cereals causal agents, non-pathogenic microorganisms and other factors in disease expression. Aspects of Applied Biology 98, 117-120.
- 224 Fountaine J, Daniell T, Harling R, Fountaine J, Dickinson, M, Shepherd T, Newton AC. 2009 Leaf waxes mutants and their effects on pathogens and the phylloplane mycrobial community. Aspects of Applied Biology 98, 207-212.
- 223 Newton AC, Lyon G, Begg G, Zhan J, Guy D, Walters D, 2009. Deployment strategies for crops with inducible resistance. In: Induced resistance in plants against insects and diseases Proceedings of the IOBC/wprs joint working group meetings: "Induced resistance to plants against insects and diseases" and "Breeding for Resistance to Pests and Diseases". Crete, 27-29 April 2006, IOBC/wprs Bulletin 44, 131-135.
- 222 Newton AC, Book review for.... 'Climate Change Turning up the heat.' By A. B. Pittock. Earthscan: London (2007), pp.316, £22.95(paperback). ISBN 978-1-84407-300-9.
- 221 Fountaine JM, Gravouil C, Harling R, Shepherd T, Taylor J, Dickinson M, Newton AC, 2009. Leaf wax and cultivar effects on phylloplane organisms and disease in barley. Association of Applied Biologists conference: International Conference on Positive Plant Microbial Interactions in Relation to Plant Performance and Ecosystem Function at: The Olde Barn Hotel, Grantham, Lincs, UK, 15-16 December 2009.
- 220 George TS, Brown LK, Newton AC, Hallett PD, Thomas W, White PJ, 2009. Impact of soil tillage on the robustness of the genetic component of variation in phosphorus (P) use efficiency in barley (*Hordeum vulgare* L.). 16th International Plant Nutrition Colloquium (IPNC), Late 2009.
- 219 Atkins S, Fitt B, Lucas J, Fraaje B, Newton AC, 2009. The enemy within: Rhynchosporium on barley. Cereals 2009, Royston, Cambridgeshire, 10-11 June 2009, poster.
- 218 Hoad S, Newton AC, Wilson G, 2009. Evaluating the benefits of variety blends in spring barley. Royal Northern Agricultural Society CropTech event, 18th June 2009, poster.
- 217 Newton AC, 2009. Climate change research at SCRI. SCRI Annual Report for 2008, 62-63.
- 216 Newton AC, Exploiting diversity in cereal production. SSCR-CROPS conference 'Farming in Tough Times'. Battleby, Perth, 17th February.
- 215 Newton AC, 2009. Book review: Plant Pathology: Concepts and Laboratory Exercises. Second Edition, edited by RN Trigiano, MT Windham & AS Windham. CRC Press.
- 214 Gregory PJ, Johnson SN, Newton AC, Ingram JSI, 2008. Climate change: the challenge for international agriculture. In: Halford N, Jones HD, Lawlor D, (Eds.) Effects of Climate Change on Plants: Implications for Agriculture. Aspects of Applied Biology 88, 1.
- 213 Matthews R, Newton A, Ellis C, Moran D, Glasbey C, Skuce P, 2008. Integrating climate change research across the Main Research Providers in Scotland. (Discussion paper). Main Research Providers Cross Cutting Theme for Climate Change Group. 8 pp. http://openscotland.gov.uk/Publications/2008/05/15115150/13.
- 212 Newton AC, 2008. Climate Change and Scottish Agriculture: Report and Recommendations of the Agriculture and Climate Change Stakeholder Group (ACCSG). http://www.scotland.gov.uk/Resource/Doc/223055/0060051.pdf
- 211 Newton AC, 2008. Crop plant genetic diversity and implications for management. Scottish Biodiversity Forum's Action Plan and Science Group: Genetic diversity in conservation and sustainability. RBGE, 7th March 2008.
- 210 Newton AC, 2008. Mildew fungicide primes plant's own defences. Article in farming press written by Hugh Symington for DuPont. Crops magazine 8th March 2008.
- 209 Newton AC, Guy DC, Swanston JS, 2008. Deployment of heterogeneity in cereals for disease control and yield enhancement. ICPP2008, Turin, 24th-29th August 2008.
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