

CABI staff publications in 2014

Scientific Publications

- Adams, I.P., Harju, V.A., Hodges, T., Hany, U., Skelton, A., Rai, S., Deka, M.K., Smith, J., Fox, A., Uzayisenga, B., Ngaboyisonga, C., Uwumukiza, B., Rutikanga, A., **Rutherford M., Ricthis [Ritchie], B., Phiri, N.** and Boonham, N. (2014) First report of maize lethal necrosis disease in Rwanda. *New Disease Reports* 29, 22. doi:10.5197/j.2044-0588.2014.029.022
- Ko, K., Liu, Y., Hou, M., **Babendreier, D., Zhang, F.** and **Song, K.** (2014) Evaluation for potential *Trichogramma* (Hymenoptera: Trichogrammatidae) strains for control of the striped stem borer (Lepidoptera: Crambidae) in the Greater Mekong Subregion. *Journal of Economic Entomology* 107(3), 955–963.
- Ramnanam, N.** (ed.) (2014) *Economic Impact of IAS in the Caribbean: Case Studies*. CABI, St Augustine, Trinidad & Tobago, 88 pp.
- Tang, R.** and Zhang, Z.N. (2014) An overview of recent progress in lepidopteran pheromone researches. *Chinese Journal of Applied Entomology* 51(5), 1149–1162. [In Chinese with English abstract].
- Schüngel, M., **Smith, D.**, Bizet, C., Stackebrandt, E. and The MIRRI Consortium (2014) The role of the European Microbial Resource Research Infrastructure project. *Enliven: Microbes and Microbial Techniques* 1(1), 001.
- Ali, G.** and **Zia, Q.** (2014) Working with water in cotton; developing water scouting strategies at farm level. *Universal Journal of Agricultural Research* 2(4), 127–130.
- Ali, S.S., Melnick, R.L., **Crozier, J.**, Phillips-Mora, W., Strem, M.D., Shao, J., Zhang, D., Sicher, R., Meinhardt, L. and Bailey, B.A. (2014) Successful pod infections by *Moniliophthora roreri* result in differential *Theobroma cacao* gene expression depending on the clone's level of tolerance. *Molecular Plant Pathology* 15(7), 698–710. doi:10.1111/mpp.12126.
- Asadi, G., Ghorbani, R., Cristofaro, C., Chetverikov, P., Petanović, R., Vidović, B. and **Schaffner, U.** (2014) The impact of the flower mite *Aceria acroptiloni* on the invasive plant Russian knapweed, *Rhaponticum repens*, in its native range. *BioControl* 59(3), 367–375.
- Bailey, B.A., Melnick, R.L., Strem, M.D., **Crozier, J.**, Shao, J., Sicher, R., Phillips-Mora, W., Ali, S.S., Zhang, D. and Meinhardt, L. (2014) Differential gene expression by *Moniliophthora roreri* while overcoming cacao tolerance in the field. *Molecular Plant Pathology* 15(7), 711–729. doi:10.1111/mpp.12134.
- Bebber, D.P., **Holmes, T., Smith, D.** and Gurr, S.J. (2014) Economic and physical determinants of the global distributions of crop pests and pathogens. *New Phytologist* 202(3), 901–910.
- Bebber, D.P., **Holmes, T.J.** and Gurr, S.J. (2014) The global spread of crop pests and pathogens. *Global Ecology and Biogeography* 23(12), 1398–1407. doi:10.1111/geb.12214.
- Bettiol, W., Rivera, M.C., Mondino, P., Montealegre A., J.R. and **Colmenárez, Y.C.** (eds) (2014) *Control Biológico de Enfermedades de Plantas en América Latina y el Caribe*. Facultad de Agricultura, Universidad de la República, Montevideo, Uruguay, 402 pp.
- Buckingham, D.L., **Brook, A.J., Eschen, R., Maczey, N., Wheeler, K.** and Peach W.J. (2014) Integrating biodiversity conservation with grassland farming: extensive cattle grazing and farmland birds. In: *Grassland Science in Europe, Vol. 19. Proceedings of the 25th European Grassland Federation on “EGF at 50: The Future of European Grasslands”*. Aberystwyth University, Aberystwyth, UK, pp. 236–238.

- Bridge, P., Edgington, S.** and Hughes, K.A. (2014) Novel Antarctic fungi: potential mycoinsecticides? *Outlooks in Pest Management* 25(5), 340–343.
- Caffrey, J.M., Baars, J.-R., Barbour, J.H., Boets, P., Boon, P., Davenport, K., Dick, J.T.A., Early, J., Edsman, L., Gallagher, C., Gross, J., Heinimaa, P., Horrill, C., Hudin, S., Hulme, P.E., Hynes, S., Maclsaac, H.J., McLoone, P., Millane, M., Moen, T.L., Moore, N., Newman, J., O’Conchuir, R., O’Farrell, M., O’Flynn, C., Oidtmann, B., Renals, T., Ricciardi, A., Roy, H., **Shaw, R.**, Weyl, O., **Williams, F.** and Lucy, F.E. (2014) Tackling invasive alien species in Europe: the top 20 issues. *Management of Biological Invasions* 5(1), 1–20.
- Carvalho, G.M.A., Carvalho, C.R., Barreto, R.W. and **Evans, H.C.** (2014) Coffee rust genome measured using flow cytometry: does size matter? *Plant Pathology* 63(5), 1022–1026. doi:10.1111/ppa.12175.
- Chowdappa, P., Chethana. C.S., Pant, R.P. and **Bridge P.D.** (2014) Multilocus gene phylogeny reveals occurrence of *Colletotrichum cymbidiicola* and *C. cliviae* on orchids in North East India. *Journal of Plant Pathology* 96(2), 327–334.
- Cock, M.J.W.** (2014) An updated and annotated checklist of the larger butterflies (Papilionoidea) of Trinidad, West Indies: Papilionidae, Pieridae and Nymphalidae. *Insecta Mundi* 0353, 1–41.
- Cock, M.J.W.** (2014) An updated and annotated checklist of the Hedyliidae and Hesperidae (Lepidoptera) of Trinidad, West Indies. *Insecta Mundi* 393, 1–40.
- Cock, M.J.W.** and Congdon, T.C.E. (2014) Observations on the biology of Afrotropical Hesperidae (Lepidoptera) principally from Kenya. Part 7. Hesperinae *incertae sedis*: grass and bamboo feeders. *Zootaxa* 3872, 301–354. doi.org/10.11646/zootaxa.3872.4.1.
- Cock, M.J.W.**, Congdon, T.C.E. and Collins, S.C. (2014) Observations on the biology of Afrotropical Hesperidae (Lepidoptera). Part 6. Hesperinae *incertae sedis*: palm feeders. *Zootaxa* 3831(1), 1–61. doi.org/10.11646/zootaxa.3831.1.1.
- Colmenarez, Y., Moore, D., Polar, P.** and Vasquez, C. (2014) Population trends of the red palm mite, *Raoiella indica* Hirst (Acari: Tenuipalpidae) and associated entomopathogenic fungi in Trinidad, Antigua, St Kitts and Nevis and Dominica. *Acarologia* 54, 433–442.
- Colmenárez, Y., Vásquez, C.** and James, M. (2014) Control biológico de enfermedades de plantas en el Caribe. In: Bettiol, W., Rivera, M.C., Mondino, P., Montealegre A., J.R. and Colmenárez, Y.C. (eds) (2014) *Control Biológico de Enfermedades de Plantas en América Latina y el Caribe*. Facultad de Agricultura, Universidad de la República, Montevideo, Uruguay, pp. 139–155.
- Cvrković, T., Jović, J., Mitrović, M., Krstić, O. and **Toševski, I.** (2014) Experimental and molecular evidence of *Reptalus panzeri* as a natural vector of bois noir. *Plant Pathology* 63(1), 42–53.
- Danielsen, S.**, Matsiko, F.B. and Kjær, A.M. (2014) Implementing plant clinics in the maelstrom of policy reform in Uganda. *Food Security* 6, 807–818. doi:10.1007/s12571-014-0388-7.
- Dashora, K.** and **Khetarpal, R.** (2014) Reassessing the role of corporate social responsibility as drivers of food security. *Indian Journal of Applied Research* 4(7), 332–335.
- Day, R.** and **Romney, D.** (2014) Putting innovation systems approaches into practice. In: Pyburn, R. and Woodhill, J. (eds) *The Dynamics of Rural Innovation: a Primer for Emerging Professionals*. LM Publishers, Arnhem, the Netherlands, pp. 36–42.

- Dhileepan, K., Taylor, D.B.J., Lockett, C.J., Balu, A., **Seier, M.K.**, Murugesan, S., **Tanner, R.A.**, **Pollard, K.M.**, Kumaran, N. and Nesar, S. (2014) Biological control of prickly acacia (*Vachellia nilotica* subsp. *indica*): current research and future prospects. In: Impson, F.A.C., Kleinjan, C.A. and Hoffmann, J.H. (eds) *Proceedings of the XIV International Symposium on Biological Control of Weeds*. University of Cape Town, South Africa, pp. 21–30.
- Djeddour, D.** and **Shaw, R.** (2014) Classical biocontrol of weeds in Europe: are we pushing against an open door? In: Impson, F.A.C., Kleinjan, C.A. and Hoffmann, J.H. (eds) *Proceedings of the XIV International Symposium on Biological Control of Weeds*. University of Cape Town, South Africa, pp. 129–134.
- Edgington, S.**, **Thompson, E.**, **Moore, D.**, Hughes, K.A. and **Bridge, P.** (2014) Investigating the insecticidal potential of *Geomyces* (Myxotrichaceae: Helotiales) and *Mortierella* (Mortierellaceae: Mortierellales) isolated from Antarctica. *SpringerPlus* 3(289), 8 pp.
- Ellison, C.A.**, Day, M.D. and **Witt, A.** (2014) Overcoming barriers to the successful implementation of a classical biological control strategy for the exotic invasive weed *Mikania micrantha* in the Asia-Pacific region. In: Impson, F.A.C., Kleinjan, C.A. and Hoffmann, J.H. (eds) *Proceedings of the XIV International Symposium on Biological Control of Weeds*. University of Cape Town, South Africa, pp. 135–141.
- Eschen, R.**, **Holmes, T.**, Smith, D., Roques, A., Santini, A. and **Kenis, M.** (2014) Likelihood of establishment of tree pests and diseases based on their worldwide occurrence as determined by hierarchical cluster analysis. *Forest Ecology and Management* 315, 103–111.
- Finegold, C.**, **Oronje, M.L.**, **Leach, M.C.**, Karanja, T., **Chege, F.** and **Hobbs, S.L.A.** (2014) Plantwise Knowledge Bank: building sustainable data and information processes to support plant clinics in Kenya. *Agricultural Information Worldwide* 6, 96–101.
- Flood, J.** (2014) Trading up through plant health. *New Agriculturist* 14(1). www.new-ag.info/en/focus/focusItem.php?a=3187
- Gariepy, T.D., **Haye, T.** and **Zhang, J.** (2014) A molecular diagnostic tool for the preliminary assessment of host-parasitoid associations in biological control programs for a new invasive pest. *Molecular Ecology* 23(15), 3912–3924. doi:10.1111/mec.12515.
- Gariepy, T.D., **Haye, T.**, Fraser, H. and **Zhang, J.** (2014) Occurrence, genetic diversity, and potential pathways of entry of *Halyomorpha halys* in newly-invaded areas of Canada and Switzerland. *Journal of Pest Science* 87(1), 17–28.
- Gassmann, A.** and **Toševski, I.** (2014) Biological control of *Rhamnus cathartica*: is it feasible? A review of work done in 2002–2012. *Journal of Applied Entomology* 138, 1–13.
- Gassmann, A.**, De Clerck-Floate, R., Sing, S., **Toševski, I.**, Mitrović, M. and Krstić, O. (2014) Biology and host specificity of *Rhinusa pilosa*, a recommended biological control agent of *Linaria vulgaris*. *BioControl* 59(4), 473–483.
- Gerber, E.** and **Schaffner, U.** (2014) Gebietsfremde Staudenknöteriche im Schweizer Wald – Auswirkungen und Massnahmen. [Exotic knotweeds on Swiss forest sites: consequences and measures to take.] *Schweizerische Zeitschrift für Forstwesen* 165(6), 150–157.
- Gibson, D.I., Bray, R.A., **Hunt, D.J.**, Georgiev, B.B., Scholz, T., Harris, P.D., Bakke, T.A., Pojmanska, T., Niewiadomska, K., Kostadinova, A., Tkach, V., Bain, O., Durette-Desset, M-C., Gibbons, L., Moravec, F., Petter, A., Dimitrova, Z.M., Buchmann, K.,

- Valtonen, T. and de Jong, Y. (2014) Fauna Europaea: helminths (animal parasitic). *Biodiversity Data Journal* 2, e1060. doi:10.3897/BDJ.2.e1060.
- Gordon, A. and **Finegold, C.** (2014) How trends in fisheries trade and production threaten the nutrition of Africa's urban poor. *Nature & Faune* 28(2), 27–30.
- Gourlay, H., Rendell, E., **Olsen, E.**, Groenteman, R., Probst, C., Padamsee, M., Bellgard, S. and Goeke, D. (2014) The results of surveys and DNA analysis of tutsan (*Hypericum androsaemum*) and tutsan rust (*Melampsora hypericorum*) in New Zealand and Europe. In: Impson, F.A.C., Kleinjan, C.A. and Hoffmann, J.H. (eds) *Proceedings of the XIV International Symposium on Biological Control of Weeds*. University of Cape Town, South Africa, pp. 89–92.
- Gupta, K., Karihaloo, J.L. and **Khetarpal, R.K.** (2014) *Biosafety Regulations for GM Crops in Asia-Pacific*. Asia-Pacific Consortium on Agricultural Biotechnology, New Delhi, India, and Asia-Pacific Association of Agricultural Research Institutions, Bangkok, Thailand, xii + 160 pp.
- Haye, T.**, Abdallah, S., Garipey, T. and Wyniger, D. (2014) Phenology, life table analysis and temperature requirements of the invasive brown marmorated stink bug, *Halyomorpha halys*, in Europe. *Journal of Pest Science* 87(3), 407–418. doi:10.1007/s10340-014-0560-z.
- Haye, T.**, Wyniger, D. and Garipey, T. (2014) Recent range expansion of brown marmorated stink bug in Europe. In: Müller, G., Pospischil, R. and Robinson, W.H. (eds) *Proceedings of the Eighth International Conference on Urban Pests*, 20–23 July 2014, Zurich, Switzerland, pp. 309–314.
- Hinz, H.L.**, Schwarzländer, M., **Gassmann, A.** and Bouchier, R.S. (2014) Successes we may not have had: a retrospective analysis of selected weed biological control agents in the United States. *Invasive Plant Science and Management* 7, 565–579.
- Hora Júnior, B.T., Macedo, D.M., Barreto, R.W., **Evans, H.C.**, Mattos, C.R.R., Maffia, L.A. and Mizubuti, E.S.G. (2014) Erasing the past: a new identity for the Damoclean pathogen causing South American leaf blight of rubber. *PLoS ONE* 9, e104750. doi:10.1371/journal.pone.0104750.
- Hulme, P.E., Pyšek, P., Pergl, J., **Schaffner, U.** and Vilà, M. (2014) Pragmatism required to assess impacts of invasive plants. [Letter.] *Frontiers in Ecology* 12(3), 153–154. doi:10.1890/14.WB.003.
- Hulme, P.E., Pyšek, P., Pergl, J., Jarošík, V., **Schaffner, U.** and Vilà, M. (2013) Greater focus needed on alien plant impacts in protected areas. *Conservation Letters* 7(5), 459–466. <http://onlinelibrary.wiley.com/doi/10.1111/conl.12061/abstract>
- Jenner, W.H.**, **Kuhlmann, U.**, Miall, J.H., Cappuccino, N. and Mason, P.G. (2014) Does parasitoid state affect host range expression? *Biological Control* 78, 15–22.
- Kim, M.K., Choe, K., Kim, R.J., Han, W.S., Ri, J.K., Kang, S.I., **Holmes, K.**, Ri, J.O., Ri, K.N., **Hunt, E.**, **Kuhlmann, U.**, **Grossrieder, M.** (2014) *Pesticide Sprayer Operators Manual (Korean Language)*. [Revised and Reissued.] Foreign Language Publishing House, Pyongyang, DPR Korea, 44 pp.
- Kang, S.I., Ryang, Y.S., Pak, I.C., Kang, C.H., Min, S.K., **Holmes, K.**, **Toepfer, S.**, Bollhalder, F., Chen, J. and **Li, H.** (2014) *Entomopathogenic Nematode Production Manual (Korean Language)*. Foreign Language Publishing House, Pyongyang, DPR Korea, 82 pp.
- Kenis, M.**, Koné, N., Chrysostome, C.A.A.M., Devic, E., Koko, G.K.D., **Clottey, V.A.**, **Nacambo, S.** and Mensah, G.A. (2014) Insects used for animal feed in West Africa. *Entomologia* 2(2), 107–114. doi: 10.4081/entomologia.2014.218.

- Khetarpal, R.K. and Dashora, K.** (2014) Knowledge management for plant biosecurity in South Asia. *Scientific Research and Essays* 9(24), 997–1002.
- Kovačević, M., Djurić, Z., Jović, J., Perković, G., Hrnčić, S., **Toševski, I.** and Delić, D. (2014) First report of stolbur phytoplasma associated with maize redness disease of maize in Bosnia and Herzegovina. [Disease Note.] *Plant Disease* 98(3), 418.
- Kyrpides, N.C., Hugenholtz, P., Eisen, J.A., Woyke, T., Göker, M., Parker, C.T., Amann, R., Beck, B.J., Chain, P.S.G., Chun, J., Colwell, R.R., Danchin, A., Dawyndt, P., Dedeurwaerdere, T., DeLong, E.F., Detter, J.C., De Vos, P., Donohue, T.J., Dong, X.-Z., Ehrlich, D.S., Fraser, C., Gibbs, R., Gilbert, J., Gilna, P., Glöckner, F.O., Jansson, J.K., Keasling, J.D., Knight, R., Labeda, D., Lapidus, A., Lee, J.-S., Li, W.-J., Juncai M.A., Markowitz, V., Moore, E.R.B., Morrison, M., Meyer, F., Nelson, K.E., Ohkuma, M., Ouzounis, C.A., Pace, N., Parkhill, J., Qin, N., Rossello-Mora, R., Sikorski, J., **Smith, D.**, Sogin, M., Stevens, R., Stingl, U., Suzuki, K.i., Taylor, D., Tiedje, J.M., Tindall, B., Wagner, M., Weinstock, G., Weissenbach, J., White, O., Wang, J., Zhang, L., Zhou, Y.-G., Field, D., Whitman, W.B., Garrity, G.M. and Klenk, H.P. (2014) Genomic encyclopedia of bacteria and archaea: sequencing a myriad of type strains. *PLoS Biology* 12(8), e1001920. doi:10.1371/journal.pbio.1001920 [Kyrpides, N.C. and 63 other authors including **Smith, D.** (2014) Genomic encyclopedia of bacteria and archaea: sequencing a myriad of type strains. *PLoS Biology* 12(8), e1001920. doi:10.1371/journal.pbio.1001920.]
- Li, H.**, Guillemaud, T., French, B.W., **Kuhlmann, U.** and **Toepfer, S.** (2014) Phenotypic trait changes in laboratory – reared colonies of the maize herbivore, *Diabrotica virgifera virgifera*. *Bulletin of Entomological Research* 104, 97–115.
- Lopes, R.B., Laumann, R.A., **Moore, D.**, Oliveira, M.W.M. and Faria, M. (2014) Combination of the fungus *Beauveria bassiana* and pheromone in an attract-and-kill strategy against the banana weevil, *Cosmopolites sordidus*. *Entomologia Experimentalis et Applicata* 151, 75–85.
- Luo, S.**, **Li, H.**, Lu, Y., **Zhang, F.**, **Haye, T.**, **Kuhlmann, U.** and **Wu, K.** (2014) Functional response and mutual interference of *Peristenus spretus* (Hymenoptera: Braconidae), a parasitoid of *Apolygus lucorum* (Heteroptera: Miridae). *Biocontrol Science and Technology* 24, 247–256.
- Lyndel, W.M., Lacerda Costa, G.G., Thomazella, D.P.T., Teixeira, P.J.P.L., Falsarella Carazzolle, M., Schuster, S.C., Carlson, J.E., Gultinan, M.J., Mieczkowski, P., Farmer A., Ramaraj, T., **Crozier, J.**, Davis, R.E., Shao, J., Melnick, R.L., Pereira, G.A.G. and Bailey, B.A. (2014) Genome and secretome analysis of the hemibiotrophic fungal pathogen, *Moniliophthora roreri*, which causes frosty pod rot disease of cacao: mechanisms of the biotrophic and necrotrophic phases. *BMC Genomics* 15(164), 25 pp.
- Mahmood, R.**, **Rehman, A.** and **Ahmad, M.** (2014) Prospects of biological control of citrus insect pests in Pakistan. *Journal of Agricultural Research (Lahore)* 52(2), 229–244.
- Maxwell, A., Vettraino, A.M., **Eschen, R.** and Andjic, V. (2014) International plant trade and biosecurity. In: Dixon, G. and Aldous, D. (eds) *Plants for People and Places*. Springer, Berlin, Germany, pp. 1171–1195.
- Meijer, J.** and **Vos, J.** (2014) European agricultural research; towards a greater impact on global challenges: intersection between AR and ARD. Study to support EIARD-SCAR Strategic Working Group ‘ARCH – Agricultural Research on Global Challenges’. EIARD-SCAR Strategic Working Group ‘ARCH – Agricultural Research on Global Challenges’, 39 pp. www.ard-

europe.org/fileadmin/site_master/content/arch/documents/arch_studies/intersection_study/ar_-_ard_intersection_study_report.pdf

- Meijer, J. and Vos, J.** (2014) European Agricultural Research; towards a greater impact on global challenges. Briefing paper to support EIARD-SCAR Strategic Working Group 'ARCH – Agricultural Research on Global Challenges'. EIARD-SCAR Strategic Working Group 'ARCH – Agricultural Research on Global Challenges', 9 pp. www.ard-europe.org/fileadmin/site_master/content/arch/documents/arch_studies/intersection_study/briefing_paper.pdf
- Milosavljević, A., Pfač-Dolovac, A., Mitrović, M., Jović, J., **Toševski, I.**, Duduk, N. and Trkulja, N. (2014) First report of *Cercospora carotae*, causal agent of cercospora leaf spot of carrot, in Serbia. *Plant Disease* 98(8), 1153. doi:10.1094/pdis-02-14-0135-pdn.
- Milosavljević, A., Pfač-Dolovac, A., Mitrović, M., Jović, J., **Toševski, I.**, Duduk, N. and Trkulja, N. (2014) First report of *Cercospora apii* causal agent of *Cercospora* early blight of celery in Serbia. *Plant Disease* 98(8), 1157. doi:10.1094/pdis-02-14-0135-pdn.
- Minter, D.W.** and Cannon, P.F. (2014) *Anthostomella alchemillae*, *Anthostomella appendiculosa*, *Anthostomella arenaria*, *Anthostomella caricis*, *Anthostomella chionostoma*, *Anthostomella clypeoides*, *Anthostomella lugubris*, *Anthostomella rubicola*, *Anthostomella scotina*, *Anthostomella tomicoides*. *IMI Descriptions of Fungi and Bacteria* set 199, sheets 1981–1990.
- Müller-Schärer, H., Lommen, S.T.E., Rossinelli, M., Bonini, M., Boriani, M., Bosio, G. and **Schaffner, U.** (2014) *Ophraella communa*, the ragweed leaf beetle, has successfully landed in Europe: fortunate coincidence or threat? *Weed Research* 54(2), 109–119.
- Musebe, R., Agwanda, C.A., Akiri, M.** and Founsie, H. (2014) An assessment of the economic viability of ecological coffee processing technology in Cameroon. *African Journal of Business Management* 8(21), 1000–1010.
- Musebe, R., Massawe, A., Mansuet, T., Kimani, M., Kuhlmann, U. and Toepfer, S.** (2014) Achieving rational pesticide use in outdoor tomato production through farmer training and implementation of a technical guideline. *Journal of Agricultural Extension and Rural Development* 6(12), 367–381.
- Muys, B., Norgrove, L., Alamirew, T., Birech, R., Chirinian, E., Delelegn, Y., Ehrensperger, A., **Ellison, C.A.**, Feto, A., Freyer, B., Gevaert, J., Gmünder, S., Jongschaap, R.E.E., Kaufmann, M., Keane, J., **Kenis, M.**, Kiteme, B., Langat, J., Lyimo, R., Moraa, V., Muchugu, J., Negussie, A., Ouko, C., Rouamba, M.W., Soto, I., Wörgetter, M., Zah, R. and Zetina, R. (2013) Integrating mitigation and adaptation into development: the case of *Jatropha curcas* in sub-Saharan Africa. [Editorial.] *GCB Bioenergy* 6(3), 169–171. doi:10.1111/gcbb.12070.
- Nacambo, S.,** Leuthardt, F.L.G., **Wan, H., Li, H., Haye, T.,** Baur, B., Weiss, R.M. and **Kenis, M.** (2014) Development characteristics of the box-tree moth *Cydalima perspectalis* and its potential distribution in Europe. *Journal of Applied Entomology* 138(1–2), 14–26.
- Negussie, E., Oduor, G., Musebe, R., Agwanda, C. and Akiri, M.** (2014) Role of low-cost simple technologies to enhance commercialisation of smallholders: lessons from Ethiopia. *Agriculture for Development* 21(Spring 2014), 8–11.
- Negussie, E.G.** and Ndinda, C. (2014) The role of loan guarantees in alleviating credit constraints: lessons for smallholder farmers cooperatives. *International Journal of Business and Social Science* 5, 143–154.
- Parsa, S., Morse, S., Bonifacio, A., Chancellor, T.C.B., Condori, B., Crespo-Pérez, V., **Hobbs, S.L.A.,** Kroschel, J., Ba, M.N., Rebaudo, F., Sherwood, S.G., Vanek, S.J., Faye, E., Herrera, M.A. and Dangles, O. (2014) Obstacles to integrated pest

- management adoption in developing countries. *Proceedings of the National Academy of Sciences of the United States of America* 111(10), 3889–3894.
- Pilz, C., **Toepfer, S.**, Knuth, P., Strimutzer, T., Heimbach, U. and Grabenweger, G. (2014) Persistence of the entomoparasitic nematode *Heterorhabditis bacteriophora* in maize fields. *Journal of Applied Entomology* 138(3), 202–212. doi:10.1111/j.1439-0418.2012.01743.x.
- Powell, A.** (2014) How mobility liberates content from the library and puts it in the hands of the users. *Against the Grain* June 2014, 16 & 18.
- Pozzebon, A., **Ahmad, S.**, Tirello, P., Lorenzon, M. and Duso, C. (2014) Does pollen availability mitigate the impact of pesticides on generalist predatory mites? *BioControl* 59(5), 585–596. doi:10.1007/s10526-014-9598-3.
- Quandt, C.A., Kepler, R.M., Gams, W., Araújo, J.P.M., Ban, S., **Evans, H.C.**, Hughes, D., Humber, R., Hywel-Jones, N., Li, Z., Luangsa-ard, J.J., Rehner, S.A., Sanjuan, T., Sato, H., Shreshta, B., Sung, G.-H., Yao, Y.-J., Zare, R. and Spatafora, J.W. (2014) Phylogenetic-based nomenclatural proposals for Ophiocordycipitaceae (Hypocreales) with new combinations in *Tolypocladium*. *IMA Fungus* 5, 121–134. doi:10.5598/ima fungus.2014.05.01.12.
- Rafi, M.A., Sultan, A., Kitching, I.J., **Pittaway, A.R.**, Markhasiov, M., Khan, M.R. and Naz, F. (2014) The hawkmoth fauna of Pakistan (Lepidoptera: Sphingidae). *Zootaxa* 3794(3), 393–418.
- Rahioui, I., Eyraud, V., Karaki, L., Sasse, F., Carre-Pierrat, M., Qin, A., Zheng, M.H., **Toepfer, S.**, Sivignon, C., Royer, C., Da Silva, P. and Gressent, F. (2014) Host range of the potential biopesticide Pea Albumin 1b (PA1b) is limited to insects. *Toxicon* 89, 67–76.
- Rehman, H.M., Mahmood, R.** and Razaq, M. (2014) Occurrence, monitoring techniques and management of *Dasineura amaramanjarae* Grover (Diptera: Cecidomyiidae) in Punjab, Pakistan. *Pakistan Journal of Zoology* 46(1), 45–52.
- Rice, K., Bergh, C.J., Bergmann, E.J., Biddinger, D.J., Dieckhoff, C., Dively, G., Fraser, H., Garipey, T., Hamilton, G., **Haye, T.**, Herbert, A., Hoelmer, K., Hooks, C.R., Jones, A., Krawczyk, G., Kuhar, T., Martinson, H., Mitchell, W., Nielsen, A.L., Pfeiffer, D.G., Raupp, M.J., Rodriguez-Saona, C., Shearer, P., Shrewsbury, P., Venugopal, P.D., Whalen, J., Wiman, N.G., Leskey, T.C. and Tooker, J.F. (2014) Biology, ecology, and management of brown marmorated stink bug (Hemiptera: Pentatomidae). *Journal of Integrated Pest Management* 5(3), 13pp. doi:10.1603/ipm14002.
- Rocha, S.L., Jorge, V.L., Della Lucia, T.M.C., Barreto, R.W., **Evans, H.C.** and Elliot, S.L. (2014) Quality control by leaf-cutting ants: evidence from communities of endophytic fungi in foraged and rejected vegetation. *Arthropod-Plant Interactions* 8, 485–493. doi:10.1007/s11829-014-9329-9.
- Roy, H.E., Peyton, J., Aldridge, D.C., Bantock, T., Blackburn, T.M., Britton, R., Clark, P., Cook, E., Dehnen-Schmutz, K., Dines, T., Dobson, M., Edwards, F., Harrower, C., Harvey, M.C., Minchin, D., Noble, D.G., Parrott, D., Pocock, M.J.O., Preston, C.D., Roy, S., Salisbury, A., Schönrogge, K., Sewell, S., **Shaw, R.H.**, Stebbing, P., Stewart A.J.A. and Walker, K.J. (2014) Horizon scanning for invasive alien species with the potential to threaten biodiversity in Great Britain. *Global Change Biology* 20(12), 3859–3871.
- Rware, H., Wairegi, L., Oduor, G., Macharia, M., Romney, D.**, Tarfa, B., Maria, R., Ley, G., Tetteh, F., Makumba, W., Dicko, M., Nouri, M., Leon, N., Gondwe, B., Kaizzi, K., Negash, D., Kibunja, C., **Alawy, A.**, Wartmann, C. and Rutsimba, E. (2014) Assessing the potential to change stakeholders knowledge and practices on fertilizer

- recommendations in Africa. *Agricultural Sciences* 5, 1384–1391.
doi:10.4236/as.2014.514149.
- Ryan, M.J., Kasulyte-Creasey, D., Kermode, A., San, S.P. and Buddie, A.G.** (2014) Controlled rate cooling of fungi using a Stirling cycle freezer. *CryoLetters* 35(1), 63–68.
- Schumann, M., **Toepfer, S.**, Vemmer, M., Patel, A., **Kuhlmann, U.** and Vidal, S. (2014) Field evaluation of an attract and kill strategy against western corn rootworm larvae. *Journal of Pest Science* 87(2), 259–271. doi:10.1007/s10340-013-0551-5.
- Shaw, R.** (2014) Japanese knotweed, journalism and the general public. *Bulletin OEPP/EPPO Bulletin* 44(2), 239–242.
- Smith, D.** (2014) Culture collections. In: Batt, C.A. and Tortorella, M.-L. (eds) *Encyclopaedia of Food Microbiology, 2nd Edition, Vol. 1*. Elsevier Ltd, Academic Press, pp. 546–552.
- Smith, D., McCluskey, K. and Stackebrandt, E.** (2014) Investment into the future of microbial resources: culture collection funding models and BRC business plans for biological resource centres. *SpringerPlus* 3(81), 12 pp.
- Stackebrandt, E., **Smith, D.**, Casaregola, S., Varese, C.G., Verkleij, G., Lima N. and **Bridge, P.** (2014) Deposit of microbial strains in public service collections as part of the publication process to underpin good practice in science. *SpringerPlus* 3(208), 4 pp.
- Streito, J.-C., Rossi, J.-P., **Haye, T.**, Hoelmer, K. and Tassus, X. (2014) La punaise diabolique (*Halyomorpha halys*): nouveau ravageur à la conquête de la France. *Phytoma* 677, 26–29.
- Sun, Y., Müller-Schärer, H. and Schaffner, U.** (2014) Plant neighbours rather than soil biota determine impact of an alien plant invader. *Functional Ecology* 28(6), 1545–1555. doi:10.1111/1365-2435.12295.
- Szalai, M., Kiss, J., Kövér, S., **Toepfer, S.** (2014) Simulating crop rotation strategies with a spatiotemporal lattice model to improve legislation for the management of the maize pest *Diabrotica virgifera virgifera*. *Agricultural Systems* 124, 39–50.
- Tanner, R.A., Liang J., Shaw, R., Murphy, S.T. and Gange, A.C.** (2014) An ecological comparison of *Impatiens glandulifera* Royle in the native and introduced range. *Plant Ecology* 215, 833–843. doi:10.1007/s11258-014-0335-x.
- Toepfer, S., Li, H., Pak, S.G., Son, K.M., Ryang, Y.S., Kang, S.I., Han, R. and Holmes, K.** (2014) Soil insect pests of cold temperature zones of East Asia, including DPR Korea: a review. *Journal of Pest Science* 87, 567–595. doi:10.1007/s10340-013-0540-8.
- Toševski, I., Caldara, R., Jović, J., Baviera, C., Hernandez-Vera, G., Gassmann, A. and Emerson, B.C.** (2014) Revision of *Mecinus heydenii* species complex (Curculionidae): integrative taxonomy reveals multiple species exhibiting host specialization. *Zoologica Scripta* 43(1), 34–51.
- Waller, J.M.** (2014) Globalisation; a game of consequences. *Agriculture for Development* 23, 47–49.
- Wan, H., Haye, T., Kenis, M., Nacambo, S., Xu, H., Zhang, F. and Li, H.** (2014) Biology and natural enemies of *Cydalima perspectalis* in Asia: is there biological control potential in Europe? *Journal of Applied Entomology* 138(10), 715–722. doi:10.1111/jen.12132.
- Wang, Z.-Y., He, K.L., **Zhang, F.**, Lu, X. and **Babendreier, D.** (2014) Mass rearing and release of *Trichogramma* for biological control of insect pests of corn in China. *Biological Control* 68, 136–144.
- Winston, R.L., Schwarzländer, M., **Hinz, H.L.**, Day, M.D., **Cock, M.J.W.** and Julien, M.H. (eds) (2014) *Biological Control of Weeds: a World Catalogue of Agents and Their*

Target Weeds, 5th edition. FHTET-2014-04. USDA Forest Service, Forest Health Technology Enterprise Team, Morgantown, West Virginia, 838 pp.

Yankey, E.N, **Swarbrick, P.J.**, Nipah, J.O., Quaicoe, R.N. and Dickinson, M.J. (2014) Detection of the Cape St. Paul wilt phytoplasma in coconut palms in Ghana through the combination of visual symptoms assessment and molecular diagnosis using a *secA* gene based assay. *Journal of Plant Pathology* 96(2), 281–285.

Zhang, Q. and **Min, W.** (2014) Bt cotton in China: implications for the rural poor and poverty alleviation. In: Sajor, E.E., Resurreccion, B.P. and Rakshit, S.K. (eds) *Bio-innovation and Poverty Alleviation: Case Studies from Asia*. Sage Publications India, New Delhi, India, pp. 291–314.