

Scientific Publications by CABI staff in 2017

☼ Available open access

- Abram, P.K., and 48 authors including **Haye, T.** (2017) Indigenous arthropod natural enemies of the invasive brown marmorated stink bug in North America and Europe. *Journal of Pest Science* 90(4), 1009–1020.
- Adhikari, D., Sharma, D.R., **Pandit, V., Schaffner, U., Jenner, W. and Dougoud, J.** (2017) Coverage and access of plant clinic in Nepal. *Journal of Agriculture and Environment (Kathmandu)* 18, 54–62. ☼
- Adhikari, D., Sharma, D.R., **Pandit, V.**, Subedi, R.K. and Adhikari, S. (2017) Contribution of plant clinic to the plant health system in Nepal. *International Conference on Recent Advances in Agriculture and Horticulture Sciences (ICRAAHS)* 35(4), 1171–1182. ☼
- Andrianova, T.V. and **Minter, D.W.** (2017) Leaf spot hyphomycetes. *IMI Descriptions of Fungi and Bacteria* 214(2131–2140), [46] pp. [*Cercospora althaeina*, *C. capparis*, *C. mercurialis*, *Phacellium vossianum*, *Pseudocercospora ribicola*, *Pseudocercospora magnusiana*, *Ramularia anchusae*, *R. doronicae*, *R. echii*, *R. geranii*.]
- Augustin, J.O., Simões, T.G., Dijksterhuis, J., Elliot, S.L. and **Evans, H.C.** (2017) Putting the waste out: a dangerous game in eusocial leaf-cutting ant communities. *Royal Society Open Science* 4(161013), 16 pp. ☼
- Bajwa, B.E., Bhatti, H., Ahmad, T. and Mazhar, M.S.** (2017) Potential of biological control of aflatoxins causing organisms in rice and maize value chains in Pakistan. *Journal of Agriculture and Environmental Sciences* 6(2), 1–6. ☼
- Bajwa, B.E., Mazhar, M.S. and Ali, S.** (2017) SPS compliance in fresh produce supply chains: an integrated approach for food quality and safety assurance. *Journal of Food Technology* 15(3–6), 7–16. ☼
- Bekker, C. de, Ohm, R.A., **Evans, H.C.**, Brachmann, A. and Hughes, D.P. (2017) Ant-infecting *Ophiocordyceps* genomes reveal a high diversity of potential behavioral manipulation genes and a possible major role for enterotoxins. *Scientific Reports* 7, 12508. ☼
- Booy, O., Cornwell, L., Parrott, D., Sutton-Croft, M. and **Williams, F.** (2017) Impact of biological invasions on infrastructure. In: Vilà, M. and Hulme, P.E. (eds) *Impact of Biological Invasions on Ecosystem Services*. Springer, Cham, Switzerland, pp. 235–247.
- Buggs, R., Coker, T., Dennis, C., Walker, D., Smith, J., Mota-Sanchez, D. and **Cock, M.** (2017) 10. Plant health – state of research. In: Willis, K.J. (ed.) *State of the World's Plants 2017*. Royal Botanic Gardens, Kew, UK, pp. 64–71, 93–94. ☼
- Cannon, P.F. and **Minter, D.W.** (2017) Microfungi on *Ammophila*. *IMI Descriptions of Fungi and Bacteria* 211(2101–2110), [40] pp. [*Amarenomyces ammophilae*, *Anthostomella phaeosticta*, *Belonium psammicola*, *Chitonospora ammophila*,

Phomatospora arenaria, *Plejobolus arenarius*, *Taphrophila trichella*, *Thyrostromella myriana*, *Tiarospora perforans*, *Tubeufia parvula*.]

- Chen X., Wu D.H., Zhang L.M., Zan Q.A., **Zhang F.**, Xiao C. and Li Z.Y. (2017) [Morphological study of immature stages of *Drosophila suzukii* (Matsumura) (Diptera: Drosophilidae).] *Chinese Journal of Applied Entomology* 54(3), 481–488. [In Chinese with English abstract.] ☀
- Cock, M.J.W.** (2017) A preliminary catalogue of the moths (Lepidoptera except Papilionoidea) of Tobago, West Indies. *Insecta Mundi* 0585, 1–58. ☀
- Cock, M.J.W.** (2017) Moths (Lepidoptera) from the Five Islands, Trinidad and Tobago, including new country records. *Living World, Journal of the Trinidad & Tobago Field Naturalists' Club* 2017, 21–25. ☀
- Cock, M.J.W.** (2017) The butterflies (Papilionoidea) of Tobago, West Indies, West Indies: An updated and annotated checklist. *Insecta Mundi* 0539, 1–38. ☀
- Cock, M.J.W.** and Alston-Smith, S. (2017) Six new records of butterflies (Lepidoptera, Papilionoidea) from Trinidad, West Indies. *Living World, Journal of the Trinidad and Tobago Field Naturalists' Club* 2017, 7–13. ☀
- Cock, M.J.W.** and Congdon, T.C.E. (2017) Observations on the biology of Afrotropical HesperIIDae (Lepidoptera) with particular reference to Kenya. Part 11. Heteropterinae. *Zootaxa* 4226(4), 487–508.
- Cock, M.J.W.** and **Shaw, R.H.** (2017) The biology of *Epiplima albida* (Hampson) (Lepidoptera, Uraniidae, Epipliminae) on Sri Lankan privet, *Ligustrum robustum* subsp. *walkerii* (Oleaceae). *Tropical Lepidoptera Research* 27(2), 96–100. ☀
- Cock, M.J.W.**, Beseh, P.K., **Buddie, A.G.**, **Cafá, G.** and **Crozier, J.** (2017) Molecular methods to detect *Spodoptera frugiperda* in Ghana, and implications for monitoring the spread of invasive species in developing countries. *Scientific Reports* 7(4103), 10 pp. ☀
- Cock, M.J.W.**, Congdon, T.C.E. and Collins, S.C. (2017) Observations on the biology of Afrotropical HesperIIDae (Lepidoptera). Part 12. New information and corrections. *Zootaxa* 4312, 471–496.
- Costi, E., **Haye, T.** and Maistrello, L. (2017) Biological parameters of the invasive brown marmorated stink bug, *Halyomorpha halys*, in southern Europe. *Journal of Pest Science* 90(4), 1059–1067.
- Cunniff, J.**, Jones, G., Charles, M. and Osborne, C.P. (2017) Yield responses of wild C3 and C4 crop progenitors to subambient CO₂: a test for the role of CO₂ limitation in the origin of agriculture. *Global Change Biology* 23(1), 380–393.
- Dashora, K.**, Roy, S., **Nagpal, A.**, **Roy, S.M.**, **Flood, J.**, Prasad, A.K., **Khetarpal, R.**, **Neave, S.** and Muraleedharan, N. (2017) Pest management through *Bacillus thuringiensis* (*Bt*) in a tea-silkworm ecosystem: status and potential prospects. *Applied Microbiology and Biotechnology* 101(5), 1795–8113.

- Day, R., Abrahams, P., Bateman, M., Beale, T., Clottey, V., Cock, M., Colmenarez, Y., Corniani, N., Early, R., Godwin, J., Gomez, J., Gonzalez Moreno, P., Murphy, S.T., Oppong-Mensah, B., Phiri, N., Pratt, C., Silvestri, S. and Witt, A.** (2017) Fall armyworm: impacts and implications for Africa. *Outlooks on Pest Management* 28(5), 196–201. ☀
- Delgado, J.D., Riera, R., Rodríguez, R.A., **González-Moreno, P.** and Fernández-Palacios, J.M. (2017) A reappraisal of the role of humans in the biotic disturbance of islands. *Environmental Conservation* 44(4), 371–380.
- Dick, J.T.A., Alexander, M.E., Ricciardi, A., Laverty, C., Downey, P.O., Xu, M., Jeschke, J.M., Saul, W.C., Hill, M.P., Wasserman, R., Barrios-O’Neill, D., Weyl, O.L.F. and **Shaw, R.H.** (2017) Functional responses can unify invasion ecology. *Biological Invasions* 19(5), 1667–1672, 1677.
- Egonyu, V, Mukasa, Y., Ogari, I., Ahumuza, G., Hakiza, G., Olal, S., **Phiri, N.** and **Ritchie, B.** (2017) Diversity and abundance of twig borers of Robusta coffee and their associated ambrosia fungi in Uganda. *African Entomology* 25(2), 311–318.
- Ellison, C.A.** and **Cock, M.J.W.** (2017) Classical biological control of *Mikania micrantha*: the sustainable solution. In: **Ellison, C.A., Sankaran, K.V.** and **Murphy, S.T.** (eds) (2017) *Invasive Alien Plants: Impacts on Development and Options for Management*. CABI, Wallingford, UK, pp. 162–190.
- Ellison, C.A.** and Sankaran, K.V. (2017) Profile of an invasive plant: *Mikania micrantha*. In: **Ellison, C.A., Sankaran, K.V.** and **Murphy, S.T.** (eds) (2017) *Invasive Alien Plants: Impacts on Development and Options for Management*. CABI, Wallingford, UK, pp. 18–28.
- Ellison, C.A., Sankaran, K.V.** and **Murphy, S.T.** (eds) (2017) *Invasive Alien Plants: Impacts on Development and Options for Management*. CABI, Wallingford, UK, 224 pp.
- Eschen, R.** (2017) Informing authorities about new pest records on woody plants. In: Roques, A., Cleary, M., Matsiakh, I. and **Eschen, R.** (eds) *Field Guide for the Identification of Damage on Woody Sentinel Plants*. CABI, Wallingford, UK, p. 281. ☀
- Eschen, R.** (2017) Introduction. In: Roques, A., Cleary, M., Matsiakh, I. and **Eschen, R.** (eds) *Field Guide for the Identification of Damage on Woody Sentinel Plants*. CABI, Wallingford, UK, pp. 1–3. ☀
- Eschen, R., Douma, J.C., Grégoire, J.-C., Mayer, F., Rigaux, L.** and Potting, R.P.J. (2017) A risk categorisation and analysis of the geographic and temporal dynamics of the European import of plants for planting. *Biological Invasions* 19(11), 3243–3257.
- Evans, H.C.** and Kirk, P.M. (2017 October) Systematics of Pochonia. In: Manzanilla-Lopez, R.H. and Lopez-Llorca, L.V. (eds) *Perspectives in Sustainable Nematode Management through Pochonia chlamydosporia Applications for Root and Rhizosphere Health*. Springer International, Cham, Switzerland, pp. 21–43.

- Fraimout, A., Debat, V., Fellous, S., Hufbauer, R.A., Foucaud, J., Pudlo, P., Marin, J.-M., Price, D.K., Cattell, J., Chen, X., Deprá, M., Duyck, P.F., Guedot, C., **Kenis, M.**, Kimura, M.T., Loeb, G., Loiseau, A., Martinez-Sañudo, I., Pascual, M., Richmond, M.P., Shearer, P., Singh, N., Tamura, K., Xuéreb, A., **Zhang, J.** and Estoup, A. (2017) Deciphering the routes of invasion of *Drosophila suzukii* by means of ABC random forest. *Molecular Biology and Evolution* 34(4), 980–996.
- Gallardo, B., Aldridge, D.C., **González-Moreno, P.**, Pergl, J., Pizarro, M., Pyšek, P., Thuiller, W. Yesson, C. and Vilà, M. (2017) Protected areas offer refuge from invasive species spreading under climate change. *Global Change Biology* 23(12), 5331–5343.
- Garcia de Jalón, G.S., **Silvestri, S.** and Barnes, A.P. (2017) The potential for adoption of climate smart agricultural practices in Sub-Saharan livestock systems. *Regional Environmental Change* 17(2), 399–410.
- González-Moreno, P.**, Pino, J., Cózar, A., García-de-Lomas, J. and Vila, M. (2017) The effects of landscape history and time-lags on plant invasion in Mediterranean coastal habitats. *Biological Invasions* 19(2), 549–561.
- Gosik, R., Skuhrovec, J., **Toševski, I.** and Caldara, R. (2017) Morphological evidence from immature stages further suggests Lignyodina being close to Tychiina (Coleoptera, Curculionidae, Curculioninae, Tychiini). *Zootaxa* 4320(3), 426–446.
- Groom, Q.J., Adriaens, T., Desmet, P., Simpson, A., De Wever, A., Bazos, I., Cardoso, A.C., **Charles, L.**, Christopoulou, A., Gazda, A., Helmissaari, H., Hobern, D., Josefsson, M., Lucy, F., Marisavljevic, D., Oszako, D., Pergl, J., Petrovic-Obradovic, O., Prévot, C., Ravn, H.P., **Richards, G.**, Roques, A., Roy, H.E., Rozenberg, M-A.A., Scalera, R., Tricarico, E., Trichkova, T., Vercayie, D., Zenetos, A. and Vanderhoeven, S. (2017) Seven recommendations to make your invasive alien species data more useful. *Frontiers in Applied Mathematics and Statistics* 3(13), 8 pp.
- Gunapala, K.R.D , **Babendreier, D.** and **Toepfer, S.** (2017) Analysis of advice quality in crop clinics on rice problems in Sri Lanka. *Annals of Sri Lanka Department of Agriculture* 19, 84–90.
- Guo, L., Jiao, X., Song, K., **Babendreier, D.**, **Zhang, F.** and Hou, M. (2017) Thermal tolerance of potential *Trichogramma* strains for mass-production and paddy field release in the Greater Mekong Subregion. *BioControl* 62(6), 731–740.
- Haye, T.** and Weber, D.C. (2017) Editorial. Special issue on the brown marmorated stink bug, *Halyomorpha halys*: an emerging pest of global concern. *Journal of Pest Science* 90(4), 987–988.
- Haye, T.** and Weber, D.C. (eds) (2017) Special issue on the brown marmorated stink bug, *Halyomorpha halys*: an emerging pest of global concern. *Journal of Pest Science* 90(4), 987–1217.
- Haye, T.** and Zimmermann, O. (2017) Etablierung der Marmorierten Baumwanze, *Halyomorpha halys* (STÅL, 1855), in Deutschland. [Establishment of the brown

- marmorated stink bug, *Halyomorpha halys* (Stål, 1855), in Germany.] *Heteropteron* 48, 34–37.
- Heeb, L. and Jenner, E.** (2017) Climate-Smart Pest Management: Implementation guidance for policy makers and investors. Global Alliance for Climate-Smart Agriculture Practice Briefs on Climate-Smart Agriculture, 13 pp. <http://www.fao.org/3/BU464EN/bu464en.pdf>
- Hernández-Lambraño, R., **González-Moreno, P.** and Sánchez-Agudo, J.A. (2017) Towards the top: niche expansion of *Taraxacum officinale* and *Ulex europaeus* in mountain regions of South America. *Austral Ecology* 42(5), 577–589.
- Honey, S.F., Bajwa, B., Mazhar, M.S.** and Wakil, W. (2017) *Trogoderma granarium* (Everts) (Coleoptera: Dermestidae), an alarming threat to rice supply chain of Pakistan. *International Journal of Entomological Research* 5(1), 23–31. ☀
- Hulme, P.E., Bacher, S., **Kenis, M.**, Kühn, I., Pergl, J., Pyšek, P., Roques, A. and Vilà, M. (2017) Blurring alien introduction pathways risks losing the focus on invasive species policy. *Conservation Letters* 10(2), 265–266. ☀
- Hyder, S., Inam-ul-Haq, M., Bibi, S., **Malik, A.M.**, Ghuffar, S. and Iqbal, S. (2017) Novel potential of *Trichoderma* spp. as biocontrol agent. *Journal of Entomology and Zoology Studies* 5(4), 214–222. ☀
- Iqbal, S., Ashfaq, M., **Malik, A.M.**, Inam-ulhaq, Khan, K.S. and Mathews, P. (2017) Isolation, preservation and revival of *Trichoderma viride* in culture media. *Journal of Entomology and Zoology Studies* 5(3), 1640–1646. ☀
- Johnson, E.S., **Rutherford, M.A., Edgington, S., Flood, J., Crozier, J., Cafá, G., Buddie, A.G., Offord, L.**, Elliott, S.M. and Christie, K.V. (2017) First report of *Moniliophthora roreri* causing frosty pod rot on *Theobroma cacao* in Jamaica. *New Disease Reports* 36(2). ☀
- Kanwal, S., Tahir, S., Channa, M.S., **Mahmood, R., Keerio, I.D., Rehman, A., Rashid, K.** and Anwar, T. (2017) Fecundity, longevity and development time of parasitoid, *Acerophagus papayae* on papaya mealybug, *Paracoccus marginatus*. *Pakistan Journal of Entomology* 32(1), 1–10. ☀
- Karubanga, G.; Matsiko, F.B. and **Danielsen, S.** (2017) Access and coverage: which farmers do plant clinics reach in Uganda? *Development in Practice* 27(8), 1091–1102. ☀
- Katsanis, A., Magro, A., Ramon-Portugal, F., Kenis, M. and Babendreier, D.** (2017) Chemical defences of native European coccinellid eggs against intraguild predation by the invasive Asian coccinellid, *Harmonia axyridis* (Pallas). *BioControl* 62(3), 385–396.
- Kenis, M., Adriaens, T., Brown, P.M.J., Katsanis, A., San Martin, G., Branquart, E., Maes, D., Eschen, R., Zindel, R., Van Vlaenderen, J., Babendreier, D., Roy, H.E., Hautier, L. and Poland, R.L.** (2017) Assessing the ecological risk posed by a recently established invasive alien predator: *Harmonia axyridis* as a case study. *BioControl* 62(3), 341–354.

- Kenis, M.**, Roques, A., Santini, A., and Liebhold, A.M. (2017) Impact of non-native invertebrates and pathogens on market forest tree resources. In: Vilà, M. and Hulme, P.E. (eds) *Impact of Biological Invasions on Ecosystem Services*. Springer, Cham, Switzerland, pp. 103–117.
- Kenis, M.**; Hurley, B.P.; Hajek, A.E.; **Cock, M.J.W.** (2017) Classical biological control against insect pests of trees: facts and figures. *Biological Invasions* 19(11), 3401–3417. ☀
- Khetarpal, R.**, Gupta, K., Dev, U. and **Dashora, K.** (2017) Prevention and related measures for invasive alien plants in India: policy framework and other initiatives. In: **Ellison, C.A.**, Sankaran, K.V. and **Murphy, S.T.** (eds) (2017) *Invasive Alien Plants: Impacts on Development and Options for Management*. CABI, Wallingford, UK, pp. 124–137.
- Koné, N., Sylla, M., **Nacambo, S.** and **Kenis, M.** (2017) Production of house fly larvae for animal feed through natural oviposition. *Journal of Insects as Food and Feed* 3(3), 177–186. ☀
- Konopka, J.K.**, **Haye, T.**, Garipey, T., Mason, P., Gillespie, D. and McNeil, J.N. (2017) An exotic parasitoid provides an invasional lifeline for native parasitoids. *Ecology and Evolution* 7(1), 277–284. ☀
- Konopka, J.K.**, **Haye, T.**, Garipey, T.D. and McNeil, J.N. (2017) Possible coexistence of native and exotic parasitoids and their impact on control of *Halyomorpha halys*. *Journal of Pest Science* 90(4), 1119–1125.
- Kriticos, D.J., Kean, J.M., Phillips, C.B., Senay, S.D., Acosta, H. and **Haye, T.** (2017) The potential global distribution of the brown marmorated stink bug, *Halyomorpha halys*, a critical threat to plant biosecurity. *Journal of Pest Science* 90(4), 1033–1043.
- Kryvomaz, T.I., **Minter, D.W.** and Michaud, A. (2017) Myxomycetes (*Physarum*). *IMI Descriptions of Fungi and Bacteria* 212(2111–2120), [52] pp. [*Physarum auriscalpium*, *P. bogoriense*, *P. crateriforme*, *P. cremiluteum*, *P. lakhanpalii*, *P. luteolum*, *P. mutabile*, *P. plicatum*, *P. roseum*, *P. stellatum*.]
- Kyaw, H.W.W., Tsuchiya, K., Matsumoto, M., Iiyama, K., Aye, S.S., Zaw, M., **Kurose, D.**, Horita, M. and Furuya, N. (2017) Genetic diversity of *Ralstonia solanacearum* strains causing bacterial wilt of solanaceous crops in Myanmar. *Journal of General Plant Pathology* 83, 216–225.
- Lamontagne-Godwin, J.**, **Williams, F.**, Bandara, W.M.P.T. and Appiah-Kubi, Z. (2017) Quality of extension advice: a gendered case study from Ghana and Sri Lanka. *Journal of Agricultural Education and Extension* 23(1), 7–22. ☀
- Liao R., **Zhang J.**, **Tang R.**, Dong W., Xiao C., Yang Q. and **Zhang F.** (2017) [Ultrastructural morphology and distribution of sensilla on the antennae and maxillary palpi of *Drosophila suzukii* (Matsumura).] *Plant Protection* 43(1), 68–75. [In Chinese with English abstract.]

- Liu Y., Xie D.S., **Zhang F.**, **Zhang J.P.**, Hu C.H., Zhang J.M., Xiong Y., Liu B. and Dong W.X. (2017) [Oviposition preferences and reproductive success of *Drosophila suzukii* on 4 non-host fruits.] *Chinese Journal of Applied Entomology* 54(1), 107–112. [In Chinese with English abstract.] ☀
- Macharia, I., Kimani, E., Koome, F., Kosiom, T., Heya, H., Otipa. M. and **Oronje, ML.** (2017) First Report and Distribution of the Papaya Mealybug, *Paracoccus marginatus*, in Kenya. *Journal of Agricultural and Urban Entomology* 33(1), 142–150.
- Matsiakh, I., Witzell, J., Poljaković-Pajnik, L., **Kenis, M.**, Talgø, V., Manole, T., Ionescu-Mălăncuscedillă, I. and Barta, M. (2017) Damage to shoots and buds of broadleaf woody plants. In: Roques, A., Cleary, M., Matsiakh, I. and **Eschen, R.** (eds) Field Guide for the Identification of Damage on Woody Sentinel Plants. CABI, Wallingford, UK, pp. 135–149. ☀
- Mazhar, M.S.**, **Bajwa, B.E.** and **Ahmad, T.** (2017) Aflatoxin in fresh produce supply chains in Pakistan: review and way forward. *Journal of the Chemical Society of Pakistan* 39(5), 879–883. ☀
- McCluskey, K., Barker, K.B., Barton, H.A., Boundy-Mills, K., Brown, D.R., Coddington, J.A., Cook, K., Desmeth, P., Geiser, D., Glaeser, J.A., Greene, S., Kang, S., Lomas, M.W., Melcher, U., Miller, S.E., Nobles, Jr., D.R., Owens, K.J., Reichman, J.H., Silva, M., Wertz, J., Whitworth, C. and **Smith, D.** (2017) The U.S. Culture Collection Network responding to the requirements of the Nagoya Protocol on Access and Benefit Sharing. *mBio* 8(e00982-17), 10 pp. ☀
- Mibe, H.**, **Karanja, L.**, **Gakuo, S.**, **Romney, D.**, **Karanja, D.** and **Sones, K.** (2017) Mobile Landscape Analysis: Tanzania. *CABI Working Paper* 10, 33pp.
- Minter, D.W.** and Cannon, P.F. (2017) Some UK fungi of conservation concern. *IMI Descriptions of Fungi and Bacteria* 213(2121–2130), [46] pp. [*Biscogniauxia marginata*, *Lasiobotrys lonicerae*, *Lichenochora epifulgens*; *Mollisia fuscoparaphysata*, *Phaeosphaeria silenes-acaulis*, *Poronia erici*, *Pseudoyuconia thalictri*; *Rutstroemia johnstonii*; *Sporomega degenerans*, *Thyronectria roseovirens*.]
- Misawa, T., Kayamori, M., **Kurose, D.**, Sasaki, J. and Toda, T. (2017) First report of *Rhizoctonia* disease of lily caused by *Rhizoctonia solani* AG-11 in Japan. *Journal of General Plant Pathology* 83(11), 406–409.
- Misawa, T., **Kurose, D.** and Kuninaga, S. (2017) First report of leaf sheath rot of Welsh onion caused by nine taxa of *Rhizoctonia* spp. and characteristics of the pathogens. *Journal of General Plant Pathology* 83(3), 121–130.
- Misawa, T., **Kurose, D.**, Kayamori, M., Iwadate, Y. and Tsushima, S. (2017) First report of spinach leaf spot caused by *Stemphylium* sp. subgroups C2 and E3 and pathogenicity comparison of the pathogen with related pathogens *Journal of General Plant Pathology* 83(3), 147–151.

- Monteiro, T.S.A., Lopes, E.A., **Evans, H.C.** and Freitas, L.G. (2016) Interactions between *Pochonia chlamydosporia* and nematodes. In: Manzanilla-Lopez, R.H. and Lopez-Llorca, L.V. (eds) Perspectives in Sustainable Nematode Management through *Pochonia chlamydosporia* Applications for Root and Rhizosphere Health. Springer International, Cham, Switzerland, pp. 77–96.
- Morrison, W.R., III, Milonas, P., Kapantaidaki, D.E., Cesari, M., Di Bella, E., Guidetti, R., **Haye, T.**, Maistrello, L., Moraglio, S.T., Piemontese, L., Pozzebon, A., Ruocco, G., Short, B.D., Tavella, L., Vétek, G. and Leskey, T. (2017) Attraction of *Halyomorpha halys* (Hemiptera: Pentatomidae) haplotypes in North America and Europe to baited traps. *Scientific Reports* 7(16941), 11 pp. ☀
- Mottet, A., Henderson, B., Opio, C., Falcucci, A., Tempio, G., **Silvestri, S.**, Chesterman, S. and Gerber, P. (2017) Climate change mitigation and productivity gains in livestock supply chains: insights from regional case studies. *Regional Environmental Change* 17(1), 129–141.
- Mountain, D., Wakefield, N.H., Charles, L.M.F.** and **McGillivray, L.A.** (2017) The Invasive Species Compendium: information for the management of invasive species. In: Joshi R.C., Cowie R.H. and Sebastian L.S. (eds) *Biology and management of invasive apple snails*. Philippine Rice Research Institute (PhilRice), Science City of Muñoz, Philippines, pp. 337–341. ☀
- Muller, G.C., Junnila, A., Traore, M.M., Traore, S.F., Doumbia, S., Sissoko, F. Dembele, S.M., Schlein, Y., Arheart, K.L., Revay, E.E., Kravchenko, V.D., **Witt, A.** and Beier, J.C. (2017) The invasive shrub *Prosopis juliflora* enhances the malaria parasite transmission capacity of *Anopheles* mosquitoes: a habitat manipulation experiment. *Malaria Journal* 16(237), 9 pp. ☀
- Munthali, M., Nalivata, P., Makumba, W., Mbewe, E., Manase, H., **Oduor, G., Macharia, M.** and Kayuki, K. (2017) Optimizing nutrient use efficiency and returns from soybean production under smallholders in three agro-ecologies of Malawi. *Agricultural Sciences* 8, 801–815. ☀
- Murphy, S.T.** (2017) Invasive alien plants as a constraint to development in tropical Asia: is there a crisis in the making? In: **Ellison, C.A.**, Sankaran, K.V. and **Murphy, S.T.** (eds) (2017) *Invasive Alien Plants: Impacts on Development and Options for Management*. CABI, Wallingford, UK, pp. 1–17.
- Musebe, R.**, Dusenge, L., **Agwanda, C.**, Kajuga, J., Waweru, B., **Karanja, D.**, **Hongmei, L.** [**Li, H.**] and **Day, R.** (2017) Understanding the need for transfer of biologically-based crop protection technology for soil pest control in vegetable production in Rwanda. *African Journal of Agricultural Research* 12(21), 1793–1800. ☀
- Musebe, R., Karanja, D.**, Caneiro, E., **Flood, J.**, Desousa, H., Sualehe, F., **Day, R., Kimani, M.** and **Agwanda, C.** (2017) Retooling cotton growers for improved productivity in Mozambique: implications of integrated crop management practices. *Journal of Economics and Sustainable Development* 8(8), 93–101. ☀

- Musebe, R., Karanja, D.,** Rajendran, S., Kessy, R., Kansiiime, M., Marandu, D., Samali, S., Nicodemus, J. Nenguwo, N., Chiwanga, R. and Makuya, P. (2017) Development of market opportunities through post-harvest processing of the African indigenous vegetables in Tanzania. *African Journal of Business Management* 11(17), 426–437. ☀
- Naeem, T. **Honey, S.F., Bajwa, B., Mazhar, M.S.** and Jamil, N. (2017) Prey stage preference and predatory potential of *Typhlodromus divergentis* (Acari: Phytoseiidae) against two spotted spider mites, *Tetranychus urticae* (Acari: Tetranychidae). *Journal of Agricultural Research* 55(4), 661–669. ☀
- Nalivata, N., Kibunja, C., Mutegi, J., Tetteh, F., Tarfa, B., Dick, M.K., Ouattara, K., Cyamweshi, R.A., Nouri, M.K., **Bayu, W.** and Wortmann, C.S. (2017) Integrated soil fertility management in Sub-Saharan Africa. In Wortmann, C.S. and Sone, K. (eds) *Fertilizer Use Optimization in Sub-Saharan Africa*. CAB International, Nairobi, Kenya, pp. 25–39. ☀
- Negussie, E.G.** and Ndinda, C. (2017) Smallholders’ access to and demand for credit and influencing factors: policy and research implications for Ethiopia. *Journal of Business & Economic Policy* 4(3), 48–60. ☀
- Nortenbaert, A., Pfeifer, C., **Silvestri, S.** and Herrero, M. (2017) Targeting, out-scaling and prioritising climate-smart interventions in agricultural systems: Lessons from applying a generic framework to the livestock sector in sub-Saharan Africa. *Agricultural Systems* 151, 153–162. ☀
- Otieno, W.** (2017) Plantwise – An innovative approach to reduce crop losses by sharing plant health knowledge. In: Milligan, A. (Ed.) *Waste Not, Want Not – The Circular Economy to Food Security*. Proceedings of Crawford Fund 2016 Annual Conference, 29–30 August 2016, Canberra ACT, Australia. The Crawford Fund, Fyshwick ACT, Australia, pp. 35–39. ☀
- Overmann, J. and **Smith, D.** (2017) Microbial resource centers contribute to bioprospecting of bacteria and filamentous microfungi. In: Paterson, R. and Lima, N. (eds) *Bioprospecting: Success, Potential and Constraints*. Springer, Cham, Switzerland, pp. 51–79.
- Pergl, J., Pyšek, P., Bacher, S., Essl, F., Genovesi, P., Harrower, C.A., Hulme, P.E., Jeschke, J.E., **Kenis, M.**, Kühn, I., Perglová, I., Rabitsch, W., Roques, A., Roy, D.B., Roy, H.E., Vilà, M., Winter, M. and Nentwig, W. (2017) Troubling travellers: are ecologically harmful alien species associated with particular introduction pathways? *NeoBiota* 32, 1–20. ☀
- Pomalégni, S.C.B., Gbemavo, D.S.J.C., Kpadé, C.P., Kenis, M. and Mensah, G.A. (2017) Traditional use of fly larvae by small poultry farmers in Benin. *Journal of Insects as Food and Feed* 3(3), 187–192. ☀
- Powell, A.** (2017) CABI’s innovative use of technology, data and knowledge transfer to reduce crop losses in the developing world. *Food and Energy Security* 6(3), 94–97. ☀

- Pratt, C.F., Constantine, K.L. and Murphy, S.T.** (2017) Economic impacts of invasive alien species on African smallholder livelihoods. *Global Food Security* 14, 31–37. ☀
- Reeder, R.H., Edgington, S.,** Baucas, N.S. , Joshi, R.C., Bas-ilan, M.A.G., Skelton, A., Fowkes, A., Harju, V., Ward, R., Kelly, M., Kirk, A.B., Forde, S., Fox, A. and **Annamalai, S.** (2017) First report of *Turnip yellow mosaic virus* in Chinese cabbage and rocket in the Philippines. *New Disease Reports* 36, 8. ☀
- Rehman, H.M., Mahmood, R.,** Razaq, M., Saeed, R., Jamil, M. and Reddy, G.V.P. (2017) Varietal preferences and within-orchard and tree distribution of newly recorded gall midges, *Dasineura amaramanjarae* and *Procontarinia mangiferae* (Diptera: Cecidomyiidae), from commercial mango cultivars in Pakistan. *Environmental Entomology* 46(4), 826–830.
- Ritzema, R.S., Frelat, R., Douxchamps, S., **Silvestri, S.,** Rufino, M.C., Herrero, M., Giller, K.E., López-Ridaura, S., Teufel, N., Paul, B.K. and van Wijk, M. (2017) Is production intensification likely to make farm households food-adequate? A simple food availability analysis across smallholder farming systems from East and West Africa. *Food Security* 9(1), 115–131.
- Rocha, S.L., **Evans, H.C.,** Jorge, V.L., Cardoso, L.A.O., Rocha, F.B., Barreto, R.W., Hart, A.G. and Elliot, S.L. (2017) Recognition of endophytic *Trichoderma* species by leaf-cutting ants and their potential in a Trojan-horse management strategy. *Royal Society Open Science* 4(160628), 14 pp. ☀
- Roffeis, M., Almeida, J., Wakefield, M.E., Valada, T.R.A., Devic, E., Koné, N., **Kenis, M., Nacambo, S.,** Fitches, E.C., Koko, G.K.D., Mathijs, E., Achten, W.M.J. and Muys, B. (2017) Life cycle inventory analysis of prospective insect based feed production in West Africa. *Sustainability* 9(1697), 27 pp. ☀
- Rogers, P.,** Nunan, F. and Fentie, A.A. (2017) Reimagining invasions: The social and cultural impacts of *Prosopis* on pastoralists in southern Afar, Ethiopia. *Pastoralism: Research, Policy and Practice* 7(22), 13 pp. ☀
- Royo, C., Becerra, V., France, A., Paredes, M., **Buddie, A.** and Balzarini, M. (2017) Genetic diversity of *Chondrostereum purpureum* (Pers.) Pouzar causing silverleaf disease on blueberries in Chile. *Gayana Botánica* 74(1), 176–188. ☀
- Romano, P.D., **Smith, D.,** Bunk, B., Vasilenko, A., Glöckner, F.O. (2017) Designing the MIRRI information system. *PeerJ Preprints* 5:e2815v1, 3 pp. ☀
- Rondoni, G. Bertoldi, V., Malek, R., Foti, M.C., Peri, E., Maistrello, L., **Haye, T.** and Conti, E. (2017) Native egg parasitoids recorded from the invasive *Halyomorpha halys* successfully exploit volatiles emitted by the plant–herbivore complex. *Journal of Pest Science* 90(4), 1087–1095.
- Roques, A., Cleary, M., Matsiakh, I. and **Eschen, R.** (2017) Diagnostic keys. In: Roques, A., Cleary, M., Matsiakh, I. and **Eschen, R.** (eds) Field Guide for the Identification of Damage on Woody Sentinel Plants. CABI, Wallingford, UK, pp. 19–36. ☀

- Roques, A., Cleary, M., Matsiakh, I. and **Eschen, R.** (2017) Field Guide for the Identification of Damage on Woody Sentinel Plants. CABI, Wallingford, UK, 292 pp. ☀
- Rware, H.**, Kaizzi, K.C., Senkoro, C.J., **Bayu, W.**, **Oduor, G.** and **Watiti, J.** (2017) Enabling fertilizer use optimization in Sub-Saharan Africa. In Wortmann, C.S. and Sone, K. (eds) Fertilizer Use Optimization in Sub-Saharan Africa. CAB International, Nairobi, Kenya, pp. 220–224. ☀
- Sankaran, K.V., Tjitrosemito, S. and **Sastroutomo, S.S.** (2017) Impacts and management options for *Mikania micrantha* in plantations. In: **Ellison, C.A.**, Sankaran, K.V. and **Murphy, S.T.** (eds) (2017) Invasive Alien Plants: Impacts on Development and Options for Management. CABI, Wallingford, UK, pp. 39–58.
- Seebens, H. and 44 other authors including **Kenis, M.** (2017) No saturation in the accumulation of alien species worldwide. *Nature Communications* 8:14435, 1–9. ☀
- Shackleton, R.T., **Witt, A.B.R.**, Aool, W. and **Pratt, C.F.** (2017) Distribution of the invasive alien weed, *Lantana camara*, and its ecological and livelihood impacts in eastern Africa. *African Journal of Range & Forage Science* 34(1), 1–11. ☀
- Shackleton, R.T., **Witt, A.B.R.**, Nunda, W. and Richardson, D.M. (2017) *Chromolaena odorata* (Siam weed) in eastern Africa: distribution and socioecological impacts. *Biological Invasions* 19(4), 1285–1298.
- Shackleton, R.T., **Witt, A.B.R.**, Piroris, F.M. and van Wilgen, B.W. (2017) Distribution and socio-ecological impacts of the invasive alien cactus *Opuntia stricta* in eastern Africa. *Biological Invasions* 19(8), 2427–2441. ☀
- Shaw, R.H.** and **Cock, M.J.W.** (2017) Host specificity of *Epiplatys albida*, a potential biological control agent for Sri Lankan privet in the Mascarene Islands. *Insects* 8(77), 1–11. ☀
- Shaw, R.H.** and Hatcher, P.E. (2017) Weed biological control. In: Hatcher, P.E. and Froud-Williams, R.J. (eds) Weed Research: Expanding Horizons. John Wiley & Sons Ltd., Chichester, UK, pp. 215–243.
- Shikuku, K.M., Valdivia, R.O., Paul, B.K., Mwongera, C., Winowiecki, L., Läderach, P., Herrero, M. and **Silvestri, S.** (2017) Prioritizing climate-smart livestock technologies in rural Tanzania: A minimum data approach. *Agricultural Systems* 151, 204–216. ☀
- Sivapragasam, A.** (2017) Ecological and foraging aspects of the cabbage webworm, *Hellula undalis* Fabricius. *Mysore Journal of Agricultural Science* 51(A), 53–58.
- Sivapragasam, A.** and **Loke, W.H.** (2017) Plantwise – a Center for Agriculture and Bioscience International (CABI)–led extension program for farmers. *Mysore Journal of Agricultural Science* 51(A), 212–218.
- Smith, D.**, da Silva, M., Jackson, J. and Lyal, C. (2017) An explanation of the Nagoya Protocol and Access and Benefit Sharing, and its implication for microbiology. *Microbiology* 163(3), 289–296. ☀

- Smith, D.**, Martin, D. and Novossiolovala, T. (2017) Microorganisms: good or evil, MIRRI provides biosecurity awareness. *Current Microbiology* 74(3), 299–308. ☀
- Smith, D.**, Stackebrandt, E., Casaregola, S., Romano, P. and Glöckner, F.O. (2017) MIRRI recommendations for exploiting the full potential of micro-organism data. *Annals of Biometrics and Biostatistics* 4(1), 1027, 6 pp. ☀
- Sookdeo, K. and **Cock, M.J.W.** (2017) Notes on the Lepidoptera of Huevos, Trinidad and Tobago. *Living World, Journal of the Trinidad and Tobago Field Naturalists' Club* 2017, 43–48. ☀
- St Laurent, R.A. and **Cock, M.J.W.** (2017) Annotated list of Mimallonidae (Lepidoptera, Mimallonoidea) from Trinidad and Tobago. *Zootaxa* 4268, 53–70. ☀
- Stackebrandt, E. and **Smith, D.** (2017) Expanding the ‘Digital Protologue’ database (DPD) to ‘Archives of Microbiology’: an offer to scientists and science. (Editorial). *Archives of Microbiology* 199(4), 519–520. ☀
- Tang, R., Babendreier, D., Zhang, F., Kang, M., Song, K., Hou, M.-L.** (2017) Assessment of *Trichogramma japonicum* and *T. chilonis* as potential biological control agents of yellow stem borer in rice. *Insects* 8(19), 1–12. ☀
- Tewksbury, L., Casagrande, R.A., Cappuccino, N. and **Kenis, M.** (2017) Establishment of parasitoids of the lily leaf beetle (Coleoptera: Chrysomelidae) in North America. *Environmental Entomology* 46(2), 226–236.
- Toepfer, S.** and Zellner, M. (2017) Entomopathogenic nematodes can replace soil insecticides in western corn rootworm control. IOBC-WPRS Working Group Microbial and Nematode Control of Invertebrate Pests. *IOBC-WPRS Bulletin* 129, 144–156.
- Trivellone, V., Mitrović, M., Dietrich, C. H. and **Toševski, I.** (2017) *Osbornellus auronitens* (Hemiptera: Cicadellidae: Deltocephalinae), an introduced species new for the Palaearctic region. *Canadian Entomologist* 149(5), 551–559.
- Trkulja, N.R., Milosavljević, A.G., Mitrović, M.S., Jović, J.B., **Toševski, I.T.**, Khan, M.F.R. and Secor, G.A. (2017) Molecular and experimental evidence of multi-resistance of *Cercospora beticola* field populations to MBC, DMI and QoI fungicides. *European Journal of Plant Pathology* 149(4), 895–910.
- Turbé, A., Strubbe, D., Mori, E., Carrete, M., Chiron, F., Clergeau, P., **González-Moreno, P.**, Le Louarn, M., Luna, A., Menchetti, M., Nentwig, W., Pârâu, L.G., Postigo, J.-L., Rabitsch, W., Senar, J. C., Tollington, S., Vanderhoeven, S., Weiserbs, A. and Shwartz, A. (2017) Assessing the assessments: evaluation of four impact assessment protocols for invasive alien species. *Diversity and Distributions* 23(3), 297–307. ☀
- Vettraino, A.M., **Li, H.-M., Eschen, R.**, Morales-Rodriguez, C. and Vannini, A. (2017) The sentinel tree nursery as an early warning system for pathway risk assessment: Fungal pathogens associated with Chinese woody plants commonly shipped to Europe. *PLoS ONE* 12(11): e0188800. ☀

- Villaverde, T., **González-Moreno, P.**, Rodríguez-Sánchez, F., Escudero, M. (2017) Niche shifts after long-distance dispersal events in bipolar sedges (*Carex*, Cyperaceae). *American Journal of Botany* 104(11), 1765–1774.
- Von Virag, A.**, Bon, M.C., **Cloșca, C.**, Diaconu, A., **Haye, T.**, Weiss, R.M., Müller-Schärer, H. and **Hinz, H.L.** (2017) Phenology and temperature-dependent development of *Ceutorhynchus assimilis*, a potential biological control agent for *Lepidium draba*. *Journal of Applied Entomology* 141, 219–230.
- Wang, W., Zhang, W., Wang, X., Lei, C., **Tang, R.**, **Zhang, F.**, Yang, Q. and Zhu, F. (2017) Tracing heavy metals in ‘swine manure - maggot - chicken’ production chain. *Scientific Reports* 7(8417), 1–10. ☀
- Wegensteiner, R., Tkaczuk, C., **Kenis, M.**, and Papierok, B. (2017) Occurrence of *Tomicobia seitneri* (Hymenoptera: Pteromalidae) and *Ropalophorus clavicornis* (Hymenoptera: Braconidae) in *Ips typographus* adults (Coleoptera: Curculionidae: Scolytinae) from Austria, Poland and France. *Biologia* 72(7), 807–813.
- Weintraub, P.G., Scheffer, S.J., Visser, D., Valladares, G., Soares Correa, A., Shepard, B.M., Rauf, A., **Murphy, S.T.**, Mujica, N., MacVean, C., Kroschel, J., Kishinevsky, M., Joshi, R.C., Johansen, N.S., Hallett, R.H., Civelek, H.S., Chen, B. and Metzler, H.B. (2017) The invasive *Liriomyza huidobrensis* (Diptera: Agromyzidae): Understanding its pest status and management globally. *Journal of Insect Science* 17(1), 28, 1–27.
- Weyl, O.L.F., Nunes, A.L., Ellender, B.R., **Weyl, P.S.R.**, Chilala, A.C., Jacobs, F.J., Murray-Hudson, M. and Douthwaite, R.J. (2017) Why suggesting Australian redclaw crayfish *Cherax quadricarinatus* as biological control agents for snails is a bad idea. *African Journal of Aquatic Science* 42, 325–327.
- Wigboldus, S., **Danielsen, S.**, Dror, I., Camacho V., C., Blum, M., Kisauzi, D., Fett, S. and Wongtschowski, M. (2017) The contribution of AIS approaches to achieving impact at scale – intentions, realities and outlooks. *KIT Working Paper* 2017(10), 12 pp. ☀
- Witt, A.B.R.** (2017) Guide to the naturalized and invasive plants of Laikipia. CABI, Wallingford, UK, 186 pp. ☀
- Witt, A.B.R.** (2017) Guide to the naturalized and invasive plants of southeast Asia. CABI, Wallingford, UK, 214 pp. ☀
- Witt, A.B.R.** (2017) Use of non-native species for poverty alleviation in developing economies. In: Vilà, M. and Hulme, P.E. (eds) *Impact of Biological Invasions on Ecosystem Services*. Springer, Cham, Switzerland, pp. 295–310.
- Witt, A.B.R.** and Luke, Q. (2017) Guide to the naturalized and invasive plants of eastern Africa. CABI, Wallingford, UK, 608 pp. ☀
- Witt, A.B.R.**, Kiambi, S., Beale, T. and Van Wilgen, B.W. (2017) A preliminary assessment of the extent and potential impacts of alien plant invasions in the Serengeti-Mara ecosystem, East Africa. *Koedoe* 59(1), a1426, 16pp. ☀

- Witzell, J., Matsiakh, I., Poljaković-Pajnik, L., **Kenis, M.**, Talgø, V., Ravn, H.P., Barta, M. and Cleary, M. (2017) Damage to buds and shoots of coniferous woody plants. In: Roques, A., Cleary, M., Matsiakh, I. and **Eschen, R.** (eds) Field Guide for the Identification of Damage on Woody Sentinel Plants. CABI, Wallingford, UK, pp. 248–262. ☀
- Wu, H., Fang, Y., Xie, D.S., Chen, Z.J., Dou, W.J., **Zhang, F.**, Chen, G.H. (2017) [A preliminary *Drosophila suzukii* life table.] *Chinese Journal of Applied Entomology* 54(5), 730–741. [In Chinese with English abstract.] ☀
- Wu, L., Sun, Q., Desmeth, P., Sugawara, H., Xu, Z., McCluskey, K., **Smith, D.**, Alexander, V., Lima, L., Ohkuma, M., Robert, V., Zhou, Y., Li, J., Fan, G., Ingsriswang, S., Ozerskaya, S. and Ma, J. (2017) World data centre for microorganisms: an information infrastructure to explore and utilize preserved microbial strains worldwide. *Nucleic Acids Research* 1, 8 pp. ☀
- Yahaya, H., Badrulhadza, A., **Sivapragasam, A.**, Nordin, M., Muhamad Hisham, M.N. and Misrudin, H. (2017) Invasive apple snails in Malaysia. In: Joshi R.C., Cowie R.H. and Sebastian L.S. (eds) Biology and management of invasive apple snails. Philippine Rice Research Institute (PhilRice), Science City of Muñoz, Philippines, pp. 169–196. ☀
- Zhan, H.**, **Zhang, J.**, Chen, Z., Huang, Y., Ruuhola, T. and Yang, S. (2017) Effects of Cd²⁺ exposure on key life history traits and activities of four metabolic enzymes in *Helicoverpa armigera* (Lepidopteran: Noctuidae). *Chemistry and Ecology* 33(4), 325–338.
- Zhang, J.P.**, **Zhang, F.**, Gariepy, T. Mason, P., Gillespie, D., Talamas, E. and **Haye, T.** (2017) Seasonal parasitism and host specificity of *Trissolcus japonicus* in northern China. *Journal of Pest Science* 90(4), 1127–1141.
- Zhang, T., **Toepfer, S.**, Wang, M., Peng, H., Luo, H., Wan, X. and **Wan, M.** (2017) Is business linkage affecting agricultural advisory services? *International Journal of Agricultural Extension* 5(1), 59–77. ☀
- Zhong Y.Z.**, **Zhang J.P.**, Ren L.L., **Tang R.**, **Zhan H.X.**, Chen G.H., **Zhang F.** (2017) Behavioral responses of the egg parasitoid *Trissolcus japonicus* to volatiles from adults of its stink bug host, *Halyomorpha halys*. *Journal of Pest Science* 90(4), 1097–1105.
- Zhu, G.P., Gariepy, T.D., **Haye, T.** and Bu, W.J. (2017) Patterns of niche filling and expansion across the invaded ranges of *Halyomorpha halys* in North America and Europe. *Journal of Pest Science* 90(4), 1045–1057.