

- 1 Large-scale sugarcane farmers' knowledge and perceptions of *Eldana saccharina* Walker (Lepidoptera: Pyralidae), push-pull and integrated pest management
J. Cockburn, H. Coetzee, J. Van den Berg and D. Conlong
- 10 Selection, mechanism, cross resistance and stability of spinosad resistance in *Spodoptera litura* (Fabricius) (Lepidoptera: Noctuidae)
A. Rehan and S. Freed
- 16 Impacts of orchard pesticides on *Galendromus occidentalis*: Lethal and sublethal effects
E.H. Beers and R.A. Schmidt
- 25 Evaluation of resistance to root-knot nematode (*Meloidogyne incognita*) in okra cultivars
T. Mukhtar, M.A. Hussain, M.Z. Kayani and M.N. Aslam
- 31 Combination effect of chitosan and methyl jasmonate on controlling *Alternaria alternata* and enhancing activity of cherry tomato fruit defense mechanisms
J. Chen, X. Zou, Q. Liu, F. Wang, W. Feng and N. Wan
- 37 Evaluation of neonicotinoids as pyrethroid alternatives for rice water weevil management in water-seeded rice
S.K. Lanka, M.J. Stout and J.A. Ottea
- 44 Races of *Colletotrichum graminicola* pathogenic to maize in Brazil
R.V. da Costa, L.V. Cota, D.D. da Silva, D.F. Parreira, C.R. Casela, E.C. Landau and J.E.F. Figueiredo
- 50 Crop losses and the economic impact of insect pests on Brazilian agriculture
C.M. Oliveira, A.M. Auad, S.M. Mendes and M.R. Frizzas
- 55 A new diagrammatic scale for the assessment of northern corn leaf blight
R.A. Vieira, R.M. Mesquini, C.N. Silva, F.T. Hata, D.J. Tessmann and C.A. Scapim
- 58 Determination of drift potential of different flat fan nozzles on a boom sprayer using a test bench
E. Gil, P. Balsari, M. Gallart, J. Llorens, P. Marucco, P.G. Andersen, X. Fàbregas and J. Llop
- 69 Effects of cabergoline on the fertility of female mice during early and late pregnancy, and potential for its use in mouse control
Q.-Q. Su, Z.-F. Xiang, J. Qin, M.-F. Guo and Q.-S. Liu

- 74 Ion chromatography analysis of phosphite uptake and translocation by potato plants:
Dose-dependent uptake and inhibition of *Phytophthora infestans* development
T. Borza, A. Schofield, G. Sakthivel, J. Bergese, X. Gao, J. Rand and G. Wang-Pruski
- 82 Economic impact of classical biological control of papaya mealybug in India
S. Myrick, G.W. Norton, K.N. Selvaraj, K. Natarajan and R. Muniappan
- 87 Control of tobacco mosaic virus by *Pseudomonas fluorescens* CZ powder in greenhouses and the field
L. Shen, F. Wang, J. Yang, Y. Qian, X. Dong and H. Zhan
- 91 Contribution of spray droplet pinning fragmentation to canopy retention
H.H. Boukhalfa, M. Massinon, M. Belhamra and F. Lebeau
- 98 Systems approaches to innovation in crop protection. A systematic literature review
M. Schut, J. Rodenburg, L. Klerkx, A. van Ast and L. Bastiaans
- 109 IAPPS Newsletter
- 112 Calendar