## BURLEIGH DODDS SERIES IN AGRICULTURAL SCIENCE



## **AVAILABLE NOW**

### About the book

This collection reviews current advances in integrated pest management (IPM) for horticultural crops, including the use of biological control mechanisms, technological developments such as proximal sensors, agronomic practices and physical control.

#### About the editor

Dr Rosemary Collier is a Professor in the School of Life Sciences at the University of Warwick, UK. She is Coordinator of the IPM Working Group in the European Vegetable Research Institutes Network (EUVRIN) and Chair of the UK Insecticide Resistance Action Group. Professor Collier has been awarded the Royal Horticultural Society Veitch Memorial Medal for her outstanding contribution to the advancement of the science and practice of horticulture.

# Improving integrated pest management in horticulture

Available in print and digital formats: ISBN - print 978-1-78676-753-0

Pages 486

Pub. Date March 2022

Price £150/\$195/€180/C\$255

Series No AS110

Order via our online bookshop at https://bdspublishing.com, your usual book supplier, or pass to your librarian.

Enquiries to info@bdspublishing.com

For a complete list of titles visit www.bdspublishing.com

T: +44 (0) 1223 839365
E: info@bdspublishing.com
www.bdspublishing.com

- 🏏 @bdspublishing
- in Burleigh Dodds Science Publishing



### Delivering knowledge for the global scientific community

### Improving integrated pest management in horticulture

Edited by: Professor Rosemary Collier, Warwick University, UK

#### Part 1 Using biological agents in integrated pest management

- Advances in biopesticides for insect control in horticulture: Travis R. Glare, Bio-Protection Research Centre, Lincoln University, New Zealand; and Aimee C. McKinnon, La Trobe University, Australia
- Advances in bioprotectants for plant disease control in horticulture: Philippe C. Nicot, Thomas Pressecq and Marc Bardin, INRAE, Pathologie Végétale, France
- 3. Advances in biostimulants as an IPM tool in horticulture: Surendra K. Dara, University of California Cooperative Extension, USA
- 4. Improving application systems for bioprotectants in integrated pest management (IPM) programmes in horticulture: Clare Butler Ellis, Silsoe Spray Applications Unit Ltd, UK

### Part 2 Using decision support systems in integrated pest management

- Advances in insect pest and disease monitoring and forecasting in horticulture: Irene Vänninen, Natural Resources Institute Finland (LUKE), Finland
- Advances in proximal sensors to detect crop health status in horticultural crops: Catello Pane, CREA – Research Centre for Vegetable and Ornamental Crops, Italy
- Advances in decision support systems (DSSs) for integrated pest management in horticultural crops: Mark W. Ramsden, ADAS, UK; and Aoife O'Driscoll, NIAB, UK

### Part 3 Improving integrated pest management techniques and implementation

8. The use of agronomic practices in integrated pest management programmes in horticulture: Aude Alaphilippe, Claude Bussi, Marion Casagrande, Tarek Dardouri and Sylvaine Simon, INRAE UERI Gotheron, France; Pierre-Eric Lauri, INRAE UMR ABSys, France; Amélie Lefèvre, INRAE Agroecological Vegetable Systems Experimental Facility, France; and Mireille Navarrete, INRAE UR Ecodeveloppement, France

- 9. Advancing conservation biological control as a component of integrated pest management of horticultural crops: Robbie D. Girling, Tom D. Breeze and Michael P. Garratt, University of Reading, UK
- 10. Assessing the economics of integrated pest management for horticultural crops: Philip R. Crain and David W. Onstad, Corteva Agriscience, USA
- Encouraging integrated pest management uptake in horticultural crop production: Norma R. Samuel, Associate District Extension Director and Urban Horticulture Extension Agent, Institute of Food and Agricultural Sciences, University of Florida, USA; and Oscar E. Liburd, University of Florida-Gainesville, USA

#### Part 4 Case studies

- 12. Practical application of integrated pest management in greenhouses and protected cultivation: *Bruno Gobin, Els Pauwels and Joachim Audenaert, PCS-Ornamental Plant Research, Belgium*
- 13. Practical applications of integrated pest management in horticultural cultivation: the cases of protected tomato and outdoor Brassica production: Richard H. Binks, FreshTec Agricultural Consultancy Limited, UK
- 14. Practical application of integrated pest management to control cabbage root fly in vegetables: Louis Lippens, PCG vzw – Vegetable Research Centre Kruishoutem, Belgium; Sander Fleerakkers, PSKW vzw – Research Station for Vegetable Production Sint-Katelijne-Waver, Belgium; Femke Temmerman, Inagro vzw, Belgium; and Annelies De Roissart, HOGENT University of Applied Sciences & Arts, Belgium