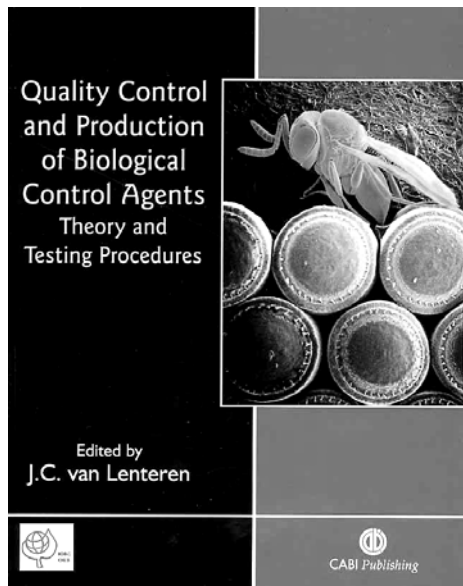


New IOBC/wprs Publications

We are glad to announce an important new IOBC/wprs book



J. C. van Lenteren (ed., 2004): *Quality Control and Production of Biological Control Agents. Theory and Testing Procedures.* – 327 pp., Wallingford (UK) (CABI Publishing), £ 65.00 (US\$ 120.00), ISBN 0 85199 688 4

This book addresses the following topics: Mass production and artificial rearing of natural enemies; Pathogens of mass produced natural enemies and pollinators; Quality control of natural enemies used for pest control; Guidelines and statistical methods for quality control; Natural enemy behaviour; Parasitoids, predators, microbial pesticides; Population ecology and genetics; Management of small populations; Risk assessment of natural enemies

Description: The use of biological control agents has been increasing worldwide and there are now many companies mass-producing such organisms, particularly for the control of insect pests. However, there is a great need for quality control in the production and use of these natural enemies, which include insect parasitoids and predators, fungi and viruses. This book has been written to provide both background theory and practical guidance on this subject.

Contents

Need for quality control for mass produced biological control.

J C van Lenteren

Aspects of total quality for the production of natural enemies.

N C Leppla, University of Florida, USA

A variable-response model for parasitoid foraging behaviour.

L E M Vet, Wageningen University, The Netherlands, W J Lewis, USDA-ARS, Georgia, USA, D R Papaj, University of Arizona, USA and J C van Lenteren

Variations in natural enemy foraging behaviour: essential element of a sound biological control theory.

W J Lewis, USDA-ARS, Georgia, USA, L E M Vet, Wageningen University, The Netherlands, J H Tumlinson, USDA-ARS, Florida, USA, et al

The parasitoids' need for sweets: sugars in mass rearing and biological control.

F L Wäckers, Netherlands Institute of Ecology, The Netherlands

Managing captive populations for release: a population genetic perspective.

L Nunney, University of California, USA

Adaptive recovery of fitness reduction: the role of population size.

R F Hoekstra, Wageningen University, The Netherlands

The use of unisexual wasps in biological control.

R Stouthamer, Wageningen University, The Netherlands

Comparison of artificially vs. naturally reared natural enemies and their potential for use in biological control.

S Grenier, Institut National des Sciences Appliquées, France and P DeClerq, Ghent University, Belgium

Pathogens of mass-produced natural enemies and pollinators.

S Bjørnson, Saint Mary's University, Nova Scotia, Canada and C Schütte, Wageningen University, The Netherlands

Commercial availability of biological control agents.

J C van Lenteren

Mass production, storage, shipment and release of natural enemies.

J C van Lenteren and M G Tommasini, Centrale Ortofrutticola, Italy

Regulation of import and release of mass produced natural enemies: a risk assessment approach.

J C van Lenteren, D Babendreier and F Bigler, Swiss Federal Research Station, Switzerland, et al

Quality assurance in North America: merging customer and producer needs.

C S Glenister, IPM Laboratories, Inc, USA, A Hale, Nature's Alternative International, Canada and A Luczynski, Biobugs Consulting Ltd, Canada

State of affairs and future directions of product quality assurance in Europe.

K J F Bolckmans, Berkel and Rodenrijs, The Netherlands

The relationship between results from laboratory product control tests and large cage tests where dispersal of natural enemies is possible: a case study with *Phytoseiulus persimilis*.

S Steinberg and H Cain, Bio-Bee Biological Systems, Sde Eliyahu, Israel

Quality of augmentative biological control agents: A historical perspective and lessons learned from evaluating *Trichogramma*.

R F Luck and L D Forster, University of California, USA

Towards the standardisation of quality control of fungal and viral biocontrol agents.

N E Jenkins and D Grzywacz, CABIBioscience, UK

Guidelines for quality control of commercially produced natural enemies.

J C van Lenteren, A Hale, Nature's Alternative International, Canada, J N Klapwijk, Berkel and Rodenrijs, The Netherlands, et al

Basic statistical methods for quality control workers.

E Wajnberg, INRA, France