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Titolo	Mass production of beneficial organisms : invertebrates and entomopathogens // edited by Juan A. Morales-Ramos, USDA-ARS, National Biological Control Laboratory, Stoneville, MS, USA, M. Guadalupe Rojas, USDA-ARS, National Biological Control Laboratory, Stoneville, MS, USA, David I. Shapiro-Ilan, USDA-ARS, SAA, SE Fruit and Tree Nut Research Unit, Byron, GA, USA
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REFERENCES; Chapter 3 - Production of Heteropteran Predators; 3.1. INTRODUCTION; 3.2. FOODS; 3.3. PLANT MATERIALS AND ALTERNATIVES; 3.4. CROWDING AND CANNIBALISM; 3.5. MICROORGANISMS; 3.6. BREEDING AND COLONY MAINTENANCE; 3.7. MASS-REARING SYSTEMS; 3.8. CONCLUSIONS; ACKNOWLEDGMENTS; REFERENCES; Chapter 4 - Production of Dipteran Parasitoids; 4.1. INTRODUCTION; 4.2. DIPTERAN PARASITIDS AS BIOCONTROL AGENTS 4.3. ASPECTS OF DIPTERAN PARASITOID BIOLOGY OF SPECIAL INTEREST FOR PRODUCTION 4.4. PRODUCTION TECHNIQUES; 4.5. PERSPECTIVES AND CONCLUDING REMARKS; REFERENCES; Chapter 5 - Mass Rearing Bemisia Parasitoids for Support of Classical and Augmentative Biological Control Programs; 5.1. INTRODUCTION; 5.2. LABORATORY CULTURE; 5.3. OUTDOOR FIELD CAGE PRODUCTION; 5.4. LARGE-SCALE GREENHOUSE-BASED SYSTEM; 5.5. CONCLUSION; 5.6. USDA DISCLAIMER; REFERENCES; Chapter 6 - Mass Rearing of the Stem-Galling Wasp *Tetramesa romana*, a Biological Control Agent of the Invasive Weed *Arundo donax*; 6.1. INTRODUCTION 6.2. BIOLOGICAL, ECOLOGICAL, AND BEHAVIORAL INFORMATION ABOUT THE ARUNDO WASP 6.3. A PLANT-BASED MASS REARING SYSTEM FOR THE ARUNDO WASP; 6.4. CHALLENGES ENCOUNTERED AND ADDRESSED IN THE DEVELOPMENT OF MASS REARING; 6.5. USE OF MASS REARED ARUNDO WASPS FOR BIOLOGICAL CONTROL OF ARUNDO; 6.6. INVESTIGATIONS INTO AN ARTIFICIAL DIET FOR REARING OF THE ARUNDO WASP; 6.7. CONCLUSIONS AND FUTURE DIRECTIONS; ACKNOWLEDGMENTS; REFERENCES; Chapter 7 - Artificial Diet Development for Entomophagous Arthropods; 7.1. INTRODUCTION; 7.2. ARTHROPOD NUTRITION; 7.3. DETERMINING THE BASIC FORMULATION 7.4. PRESENTATION 7.5. DIET REFINING; 7.6. FUTURE PERSPECTIVES; 7.7. CONCLUDING REMARKS; REFERENCES; Chapter 8 - Life Tables as Tools of Evaluation and Quality Control for Arthropod Mass Production; 8.1. INTRODUCTION; 8.2. LIFE TABLE; 8.3. CASE STUDIES; 8.4. CONCLUDING REMARKS; REFERENCES; Chapter 9 - Concepts and Methods of Quality Assurance for Mass-Reared Parasitoids and Predators; 9.1. INTRODUCTION; 9.2. QUALITY ASSURANCE IN THE MARKETPLACE; 9.3. CUSTOMER INVOLVEMENT IN QUALITY ASSURANCE; 9.4. BUILDING A COMPLETE QUALITY ASSURANCE SYSTEM 9.5. QUALITY ASSESSMENTS OF MASS-REARED NATURAL ENEMIES

Sommario/riassunto

Mass Production of Beneficial Organisms: Invertebrates and Entomopathogens is an essential reference and teaching tool for researchers in developed and developing countries working to produce "natural enemies" in biological control and integrated pest management programs. As we become aware of the negative impact of pesticides in human health and on the environment, interest is rapidly increasing in developing biological pest control alternatives. Tremendous advances have been made in beneficial organism technology, such as insect predators and parasitoids, mite predators,
