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   Titolo   Entomovectoring for Precision Biocontrol and Enhanced Pollination of
                       Crops / / edited by Guy Smagghe, Otto Boecking, Bettina Maccagnani,
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   Soggetti   Entomology
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   Nota di bibliografia   Includes bibliographical references.

   Nota di contenuto   1.Agroecosystem design supports the activity of pollinator networks --
                       2. Ecological Intensification: Managing Biocomplexity and Biodiversity
                       in Agriculture through Pollinators, Pollination and Deploying Biocontrol
                       Agents against Crop and Pollinator Diseases, Pests, and Parasites -- 3.
                       Bee pollination of crops: a natural and cost-free ecological service -- 4.
                       Solitary bees as pollinators -- 5. Bumble bees and entomovectoring in
                       open field conditions -- 6. Dispensers for entomovectoring: for every
                       bee another type? -- 7. Cases on entomovectoring in the greenhouse
                       and open field -- 8. A case study: Use of Prestop® Mix biofungicide in
                       entomovectoring on apple against storage rot diseases -- 9. Threat of
                       Drosophila suzukii as an invasive species and the potential of
                       entomovectoring -- 10.The potential of bee vectoring in coffee in Brazil
                       -- 11. Using bumblebees (Bombus terrestris) as bioagent vectors to
                       control Sclerotinia head rot on sunflower in Serbia -- 12. Advances in

the implementation of Beevector Technologi in Colombia: Strawberry case (Fragaria X ananassa) -- 13-Making a pest beneficial: Fungus gnats [Bradysia impatiens (Diptera: Sciaridea)] as potential vectors of microbial control agents to suppress pathogens they also spread -- 14. Regulatory processes surrounding the risk assessment of microbial pesticides for pollinators -- 15. Flying Doctors for a better quality in fruit production.

| Sommario/riassunto | This book examines entomovectoring, which employs crop pollinators to spread biocontrol protections against plant pathogens. The book describes research and development of the process, also known as apivectoring and beevectoring, for use both in pollination and in the delivery of biocontrol agents against crop and pollinator diseases, pests, and parasites. The opening chapters show how design of agrosystems can support the activity of pollinator networks, and describe bee pollination as a natural and cost-free ecological service. Individual chapters cover bumble bees and solitary bees as pollinators. The book outlines ways that entomovectoring can be used to increase biocomplexity and biodiversity in agriculture. Also included is a chapter on the threat of Drosophila suzukii, an invasive fruit fly that infests ripening fruit, and the prospect of improved control using entomovectoring. Another chapter discusses the prospect of using a species of fungus gnat as a potential vector of microbial control agents, to suppress pathogens that they also spread. A wide variety of crops are covered, including apples, strawberries, coffee, and sunflowers. The book describes studies on use of entomovectoring in both open fields and greenhouse settings. Another case study reviews the use of a commercial biofungicide via entomovectoring, to combat storage rot diseases in apples. Coverage also includes Flying Doctors, a precision pollination system that uses pre-collected pollen delivered by bumble bees to replace artificial pollination via dusting or phytohormones. Entomovectoring for Precision Biocontrol and Enhanced Pollination of Crops benefits graduate-level students in agriculture, plant pathology and entomology, as well as academics, researchers, working horticulturists and apiculturists, and those involved in formulating agricultural policy and regulations. |