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Nota di contenuto

Preface -- 1. Advanced Technologies for Managing Insect Pests: an Overview -- 2. bHLH Transcription Factors: Potential Target Sites for Insecticide Development -- 3. Juvenile Hormone Biosynthetic Enzymes as Targets for Insecticide Discovery -- 4. G Protein-Coupled Receptors as Target Sites for Insecticide Discovery -- 5. Bursicon as a Potential Target for Insect Control -- 6. Cell-based Screening Systems for Insecticides -- 7. Advanced Screening to Identify Novel Pesticides -- 8. Arthropod Genomics and Pest Management Targeting GPCRs -- 9. RNA Interference and its Potential for Developing New Control Methods against Insect Pests -- 10. Comparative Aspects of Cry Toxic Usages in Insect Control -- 11. Plant Natural Products for Pest Management: the Magic of Mixture -- 12. Optical Manipulations: An Advance Approach for Reducing Sucking Insect Pests -- 13. Recent Progress in Bed Bug Management -- 14. Advanced Methods for Controlling Insect Pests in Dry Food -- 15. Nanotechnology: an Advanced Approach to the Development of Potent Insecticide -- Index.

Sommario/riassunto

Among the highlights of this book is the use of novel insecticides acting on a specific site in an insect group and are compatible with natural enemies and the environment. One of such approaches is based on disrupting the activity of biochemical sites acting on transcription factors such as the basic Helix-Loop-Helix (bHLH) family, anti juvenile hormone (AJH) agents that target JH biosynthetic enzymes, G-protein coupled receptors (GPCR) and bursicon as targets for insect control. Another one is the biotechnology or the genetic approach such as gene silencing (RNA interference) and Bt-crops. Other sections of the book are devoted to the plant's natural products, optical manipulation and the use of nanotechnology for improving insect control methods.