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Nota di contenuto	1. Different Plant Families as Bioresource for Pesticides -- 2. Natural Insecticides from the Annonaceae – A Unique Example for Developing Biopesticides -- 3. Exploiting Phytochemicals for Developing Sustainable Crop Protection Strategies to Withstand Climate Change: Example from Africa -- 4. Development of Insect Resistance to Plant Biopesticides: An Overview -- 5. Efficacy of Major Plant Extracts/ Molecules on Field Insect Pests -- 6. Botanical Pesticides for the Management of Plant Nematode and Mite Pests -- 7. Plant Disease Management: Prospects of Pesticides of Plant Origin.-8. The Use of Plant Extracts for Stored Product Protection -- 9. Pesticidal Plants for

Stored Product Pests on Small Holder farms in Africa -- 10. Non-Target Effects of Botanicals on Beneficial Arthropods with Special Reference to *Azadirachta Indica* -- 11. Progress in the Development of Plant Biopesticides for the Control of Arthropods of Veterinary Importance -- 12. Role of Plant Biopesticides in Managing Vectors of Communicable Diseases -- 13. Management of Mite Pests in Honeybee Colonies through Botanicals -- 14. Nanotechnology and Plant Biopesticides: An Overview -- 15. Phytochemical Pesticides -- 16. Mode of Action of Plant-Derived Natural Insecticides -- 17. Limitation of Plant Biopesticides.-18. Production and Consumption of Biopesticides -- 19. Formulation, Registration and Quality Regulation of Plant Biopesticides. .

## Sommario/riassunto

The 'Advances in Plant Biopesticides' comprises 19 chapters on different important issues of developing biopesticides from promising botanicals and its phytomolecules based on the research reviews in the area concern. The book is written by reputed scientists and professors of both developed and developing countries namely Australia, Canada, Czech Republic, Egypt, Greece, India, Kenya, Thailand, Turkey, United Kingdom, and USA represented by almost 53 contributors. The book is organized and presented in such a form that the readers can acquire and enhance their knowledge in plant biopesticide bioresources, its application in different areas to manage pests and diseases of field crops, stored products with status of exploring in Africa, non-target effects on beneficial arthropods, control of arthropods of veterinary and vectors of communicable diseases, efficacy in controlling honeybee mite pests, prospect of applying new tools to enhance the efficacy of plant biopesticides through use of nanotechnology, most important plant derived active principle as source of biopesticides, possible mode of action of phytochemicals against arthropods, limitation, production status, consumption, formulation, registration and quality regulation of plant biopesticides and have been cited by important scientific references. Most importantly, the book also highlights a unique example for developing biopesticides based on the research on Annonaceae as potential source of plant biopesticide, exploiting phytochemicals for developing green technology for sustainable crop protection strategies to withstand climate change with example in Africa, and overview in developing insect resistance to plant biopesticides. Most of the chapter contributing authors are internationally reputed researchers and possess experiences of more than three to four decades in the area of plant biopesticides. The contributing and corresponding authors of the book - Advances in Plant Biopesticides proposed and identified by the editor (Dwijendra Singh) include distinguished professors and reputed scientists from different continents of the world namely MB Isman (Canada), Nadia Z Dimetry (Egypt), Zeaur R Khan (Kenya), John A Pickett (UK), Gadi VP Reddy (USA), S Gopalakrishnan (India), Anand Prakash (India), Chirantan Chattopadyay (India), Christos G Athanassiou (Greece), Philip C. Stevenson (UK), S Raguraman (India), S Ghosh (India), Mir S Mulla (USA), Apiwat Tawatsin (Thailand), Dwijendra Singh (India), K Sahayaraj (India), Suresh Walia (India), T Shivanandappa (India), Roman Pavela (Czech Republic), Errol Hasan (Australia), Ayhan Gokce (Turkey), SK Raza (India), and their colleague co-contributors. This book would certainly provide the updated knowledge to global readers on plant biopesticides as one of the important reference source and would stimulate to present and future researchers, scientists, student, teachers, entrepreneurs, and government & non-government policy makers interested to develop new & novel environmentally safe plant biopesticides world over. .

