

CONTENT PAGE

Ch. No.	Title of the Chapter	Author(s)	Page No.
1	Sustainable Pest Management using Modern Tools and Techniques	Asish Kumar Rout, V. Anithaa, Anup Chandra, G.K. Sujayanand, Mohammed Muzeruddin Baig and Sunil Kumar Sunani	01-14
2	Pesticide Resistance Management Strategies	Chada Anu Reddy, Mahesh Pathak, Kennedy Ningthoujam, Jyotim Gogoi and Mukesh Sehgal	15-24
3	Latest Improvements in Insect Pheromonal Research, Method and Protocols	Gogoi, J., Ningthoujam, K., Pathak, M., Ng. Tombisana Meetei and Sorokhaibam, M.	25-61
4	Plant-Insect Interaction and Resistance Mechanism	Sajad Mohiuddin, Rehana Akbar and Mariya Dar	62-71
5	Non-Pesticidal Management Techniques in Agriculture	Navendu Nair	72-86
6	Eri Silkworm: A Potential Commercial Insect and Its Future Prospects	Hia Kalita, Mahesh Pathak, Kennedy Ningthoujam, Bimal Kumar Sahoo, Sushruta Boruah and Mukesh Sehgal	87-96
7	Apiculture and Sericulture: Twin Engines of Rural Prosperity	Chada Anu Reddy, Jyotim Gogoi, Mahesh Pathak, Kennedy Ningthoujam, Hia Kalita, Bimal Kumar Sahoo, Sushruta Boruah and Mukesh Sehgal	97-107
8	Big Data Analytics for Predictive Pest Modelling	Prabhuraj, A., Somashekhar Gaddanakeri, Thammali Hemadri, Akshatha, S. and Shivayogiyappa	108-122
9	IOT based Smart Traps and Sensors in Pest Surveillance	Prabhuraj, A., Akshatha, S., Shivayogiyappa, Somashekhar Gaddanakeri and Thammali Hemadri	123-139
10	Applications of Plant Extracts in Pest Control	Sushruta Boruah, Mahesh Pathak, Ramya A.R., Bimal Kumar Sahoo, Kasturi Sarmah, Mohammad Ikram and Mukesh Sehgal	140-154
11	Integrating Sniffer Bees into Security and Defenses: Advancements in the Detection of Explosives and Illicit Substances	Bimal Kumar Sahoo, Mahesh Pathak, Sushruta Boruah, Kasturi Sarmah, Kennedy Ningthoujam, Mukesh Sehgal and Mohammad Ikram	155-172

Ch. No.	Title of the Chapter	Author(s)	Page No.
12	The Chemical Ecology of Plant-Insect Interactions	Deepika Sorahia, Kennedy Ningthoujam, Mahesh Pathak, Jyotim Gogoi, Madevu Sai Kumar, Pradeep Kumar Chandra and Mukesh Sehgal	173-195
13	Socioeconomic Factors Affecting IPM Adoption	Gogoi, J., Ningthoujam, K., Pathak, M., Tengli M.B., Alok, A. and Sorahia, D.	196-215

DISCLAIMER

The ideas and opinions in the book "*Integrated Pest Management: Advancement, Adoption and Ecological Challenges*" are those of the individual authors and do not reflect the views or policies of the editors or Biotica Publications. The editors and publisher are not responsible for any mistakes or results that may come from using the information in this book. All publication decisions are made by the Editorial Board through a careful review process and in line with legal and editorial standards. One may not copy, share or use the content from this book without properly crediting Biotica Publications and the authors, unless allowed by copyright law.