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Note generali	Description based upon print version of record.
Nota di contenuto	1. Advances in vector mosquito control technologies, with particular reference to herbal products -- 2. Sustainable and novel eco-friendly approaches towards integrated disease and vector management -- 3. Mosquito larvicidal potential of medicinal plants -- 4. Plants of Himalayan region as potential source of bio-pesticides for lepidopteran insect pests -- 5. Natural insecticides from Actinomycetes and other microbes for vector mosquito control -- 6. Extraction, purification and characterisation of insecticidal compounds from plants -- 7. Recent advancements in bio-botanical pesticide formulation technology development -- 8. Medicinal plants and phytomedicines -- 9. Prospects for development of biomedicines from the medicinal plants of northeastern India -- 10. Traditional anti-poison plants used by the Monpa tribe of Arunachal Pradesh -- 11. Molecular farming for production of biopharmaceuticals and edible vaccines in plants -- 12. Intellectual property rights Issues for herbal products -- 13. Regulatory

approval of botanical products including herbal drugs, food and insecticides for commercialization.

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## Sommario/riassunto

This book looks closely at herbal product development and commercialisation. In spite of an ever-growing demand, there is a dearth of safe and effective herbal products that meet consumers' expectations. Therefore, this book takes it upon itself to elaborate on the development process of herbal insecticides, repellents and biomedicines from a commercialisation point of view. The introductory chapters deal with the various strategies for disease vector control and provide an overview of herbal biomedicines. The subsequent chapter describes plants with mosquito larvicidal activity, including a comprehensive list of lethal concentrations against different mosquito species. The chapter on Himalayan plants discusses potential botanical insecticide sources and their chemical constituents before delving into the topic of natural insecticides of microbial origin and their efficacy against mosquitoes. Plant-derived insecticides belonging to different chemical classes and the extraction, purification and characterisation of bioactive compounds are illustrated, as well. The recent technological advances in the formulation of microbial, biochemical and botanical insecticides are also reviewed. Three chapters focus on important medicinal plants useful for treating human ailments, with special reference to the traditional healing practices of northeastern India. This is followed by a chapter on the production, use and safety of biopharmaceuticals and edible, plant-based vaccines. The intellectual property issues related to herbal products in India including patents, trademarks, geographical indications, trade secrets and traditional knowledge resources are plainly examined. The book ends with a chapter on the herbal product registration process in India, wherein the data requirements for registration, clinical efficacy trials, toxicity studies, quality control, packaging and labelling are clearly explained. In conclusion, this book is a step-by-step guide for the development of safe, effective and commercially viable herbal insecticides, repellents and biomedicines. .

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