



Biosecurity Surveillance

Quantitative Approaches

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Biosecurity Surveillance Quantitative Approaches Cabi Invasives Series

Jonathan M Jeschke, Tina Heger



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Biosecurity Surveillance Frith Jarrad, Samantha Low-Choy, Kerrie Mengersen, 2015-03-13 This book is a source of information on practical and innovative approaches to biosecurity surveillance It explains the foundation and concepts behind surveillance design with examples of methods and tools created to deal with surveillance challenges With supporting case studies and including current directions in research it covers evidence based approaches to surveillance statistics detectability single and multi species detection risk assessment diagnostics data basing modelling of invasion and spread optimisation and future climate challenges

Biosecurity Susan M Hester, Lucie M Bland, Edith Arndt, Sana Bau, James S Camac, Evelyn Mannix, Raphael Trouve, Andrew P Robinson, 2024-07-03 Biosecurity A Systems Perspective provides an overview of biosecurity as a system of related components actors and risks This book directed to the biosecurity practitioner generalist scientist and student introduces overall features of the biosecurity system while walking the reader through the most up to date research on each step of the continuum i e pre border border and post border activities This book which explicitly incorporates economic and social dimensions as well as varied decision making contexts paves the way for a more systemic approach to biosecurity risk management The work spans statistics ecology mathematics economics veterinary science human medicine and sociology involving collaborators across government academia and the private sector This book uses a broad definition of biosecurity rather than solely focusing on plant health animal health security or one step of the biosecurity system e g surveillance As such this book is a one stop shop for readers interested in all aspects of biosecurity The content and language are accessible to a wide range of audiences including generalist scientists biosecurity practitioners and graduate students More complex content is introduced in standalone boxes or chapters The book follows a clear simple structure within and among chapters i e following the structure of the biosecurity system making it a preferred option for graduate students This book introduces novel cross cutting themes such as the importance of economic efficiency and institutional and social factors going beyond the traditional science based approach to biosecurity Written in partnership with government agency practitioners this book uses on the ground case studies to demonstrate how biosecurity principles are applied in practice The book addresses challenges common to regulators in general namely efficient regulation in uncertain and rapidly changing environments with multiple stakeholders who have at times conflicting priorities Chapters 6 7 8 9 and 14 are available to read Open Access via Creative Commons Attribution No Derivatives CC BY ND 4 0 at <https://www.taylorfrancis.com/books/edit/10.1201/9781003253204>

Pest Risk Modelling and Mapping for Invasive Alien Species Robert C Venette, 2015-03-26 Over the past century the number of species that have been transported to areas outside their native range has increased steadily New pests and pathogens place biological pressure on valuable resident species but strict bans may conflict with trading and travel needs An overview of how the conflict can be managed using pest risk mapping and modelling this book uses worked examples to explain modelling and help development of tool kits for assessment

Parasites and Biological Invasions Jamie Bojko, Alison M. Dunn, April M.H. Blakeslee, 2023-10-31 Biological invasions the introduction establishment and spread of invasive alien species are complex global phenomena that can cause significant environmental ecological and economic harm Along with the direct effects of an invasive host organism there is the additional threat of co introduced pathogenic and parasitic species Co introduced parasites can affect the success of the invasive organism but can also go on to infect hosts in the new range resulting in novel ecological interactions and complex impacts These Invasive Parasites can have profound impacts on the success of a biological invasion and can pose a significant risk to wildlife in addition to organisms cultured for agriculture and aquaculture Authored by leading researchers in the discipline this new book is a useful tool for helping invasion researchers incorporate disease data into their invasion models as well a vital resource for researchers policy makers and environmental managers that are more generally interested in the myriad consequences of species invasions

Plant Invasions Anna Traveset, David M. Richardson, 2020-11-20 There are many books on aspects of plant invasions but none that focus on the key role of species interactions in mediating invasions This book reviews exciting new findings and explores how new methods and tools are shedding new light on crucial processes in plant invasions This book will be of interest to academics and students of ecology researchers engaged in developing management solutions scientific managers of natural ecosystems and policy makers

Invasive Species and Human Health Giuseppe Mazza, Elena Tricarico, 2018-07-13 Invasive alien plants and animals are known for their disruption of ecosystems and threat to biodiversity This book highlights their major impact on human health This includes not only direct effects through contact with the species via bites wounds and disease but also indirect effects caused by changes induced in ecosystems by invasive species such as more water hyacinth increasing mosquito levels and thereby the potential for malaria Covering a wide range of case studies from different taxa animals and plants and giving an overview of the diverse impacts of invasive species on health in developed and developing countries the book is a significant contribution that will help in prioritizing approaches to controlling invasive species and mitigating their health effects It covers invasive plants marine species spiders and other arachnids ticks and dust mites insects mosquitos and other diptera freshwater species invertebrates and fishes amphibians and reptiles birds and mammals The broad spectrum of the analyzed case studies will ensure the appeal of the book to a wide public including researchers of biological invasions doctors policy makers and managers and students of invasive species in ecology animal and plant biology and public health medicine

Biological Control in Latin America and the Caribbean Joop C. van Lenteren, Vanda H.P. Bueno, Maria Gabriela Luna, Yelitza Colmenarez, 2019-12-21 The book summarizes the history of biological control in Latin America and the Caribbean Few publications provide historical detail and the records are therefore fragmented until now By bringing information together in this book we offer a more complete picture of important developments in biological control on this continent There are a wealth of text tables and references about the history of such projects and which were succesful and which failed This will

help plan future biocontrol projects An overview is provided of the current situation in biological control for many Latin American and Caribbean countries revealing an astonishing level of practical biological control applied in the region making it the largest area under biological control worldwide The final part describes new developments and speculates about the future of biological control in Latin America and the Caribbean

Invasion Biology Jonathan M Jeschke, Tina

Heger, 2018-04-25 There are many hypotheses describing the interactions involved in biological invasions but it is largely unknown whether they are backed up by empirical evidence This book fills that gap by developing a tool for assessing research hypotheses and applying it to twelve invasion hypotheses using the hierarchy of hypotheses HoH approach and mapping the connections between theory and evidence In Part 1 an overview chapter of invasion biology is followed by an introduction to the HoH approach and short chapters by science theorists and philosophers who comment on the approach Part 2 outlines the invasion hypotheses and their interrelationships These include biotic resistance and island susceptibility hypotheses disturbance hypothesis invasional meltdown hypothesis enemy release hypothesis evolution of increased competitive ability and shifting defence hypotheses tens rule phenotypic plasticity hypothesis Darwin's naturalization and limiting similarity hypotheses and the propagule pressure hypothesis Part 3 provides a synthesis and suggests future directions for invasion research

Handbook of Major Palm Pests Victoria Soroker, Stefano Colazza, 2017-01-11

Handbook of Major Palm Pests Biology and Management contains the most comprehensive and up to date information on the red palm weevil and the palm borer moth two newly emergent invasive palm pests which are adversely affecting palm trees around the world It provides state of the art scientific information on the ecology biology and management of palm pests from a global group of experts in the field An essential compendium for anyone working with or studying palms it is dedicated to the detection eradication and containment of these invasive species which threaten the health and very existence of global palm crops

Advances in monitoring of native and invasive insect pests of crops Dr Michelle

Fountain, Dr Tom Pope, 2023-04-25 Highlights the relationship between climate change and the emergence of invasive insect crop pests Considers the key challenges facing the identification of crop insect pests and the role of new emerging technologies in improving the rate of detection e.g. image based DNA barcoding Reviews the establishment of successful integrated pest management IPM programmes to control and/or eradicate the existence of invasive species

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