

Global Security through Science Series - 22
Environmental Security

Virus Diseases and Crop Biosecurity

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Virus Diseases And Crop Biosecurity Nato Security Through Science Series C

**Ian Cooper, Thomas Kuehne, Valery P.
Polischuk**



Virus Diseases And Crop Biosecurity Nato Security Through Science Series C:

Virus Diseases and Crop Biosecurity Ian Cooper, Thomas Kuehne, Valery P. Polischuk, 2007-05-08 Biosecurity roughly means safe life and involves a variety of measures designed to prevent disease causing agents from entering a region and there being spread Food supplies are easy to disrupt and the provision of biosecurity at land borders is especially challenging if trade is to be maintained and when very few travellers are subjected to thorough inspection Within the context of the NATO sponsored workshop that was held in Kiev Ukraine during May 4-7 2005 the pathogens were viruses that infect plants and the region encompassed developing states on the verge of acceding into the European Union In publishing the papers presented at the workshop we take this opportunity to thank the sponsors including particularly the NATO Science committee and also the contributors for making the discussions tertaining and bene cial Under United Nations FAO auspices the International Plant Protection Convention aimed to secure common and effective activities against pests and pathogens Now most countries party to that convention have laws and regulations in place to sustain agricultural production under natural threat National plant protection services exist to inspect growing crops and imp tations and to determine when and how introduced pathogens might be era cated The member states of the European Union through their national and also the regional plant protection service The European and Mediterranean Plant Protection Organisation advise national governments and develops speci c protocols identi cation containment and eradication that aim at managing pests and pathogens in ways that have minimal impact on trade

Emerging and Reemerging Viral Pathogens Moulay Mustapha Ennaji, 2019-09-14 Emerging and Reemerging Viral Pathogens Applied Virology Approaches Related to Human Animal and Environmental Pathogens Volume Two presents new research information on viruses and their impact on the scientific community It provides a reference book on certain viruses in humans animals and vegetal along with a comprehensive discussion on interspecies interactions The book then looks at the drug vaccine and bioinformatical strategies that can be used against these viruses giving the reader a clear understanding of transmission The book s end goal is to create awareness that the appearance of newly transmissible pathogens is a global risk that requires shared adoptable policies for prevention and control Covers most emerging viral disease in humans animals and plants Provides the most advanced tools and techniques in molecular virology and the modeling of viruses Creates awareness that the appearance of new transmissible pathogens is a global risk Highlights the need to adopt shared policies for the prevention and control of infectious diseases

Biological Controls for Preventing Food Deterioration Neeta Sharma, 2014-07-08 Various biotic factors cause diseases in crops which result in food losses Historically pesticide development has been instructive to us in terms of the benefits derived as well as the hazards that accompany their indiscriminate use The application of fertilizers and pesticides to crops has become a norm in agricultural production but this has led to resurgence in pests as they have developed resistance to such chemicals Biological control of plant pests and pathogens is part of the solution to this problem

This is an area that continues to inspire research and development. It is also the foundation on which sustainable non-polluting pest control for tomorrow's farms must be built. *Biological Controls for Preventing Food Deterioration* provides readers with options of non-chemical, eco-friendly, environmentally safe, natural alternatives to prevent food from spoilage at pre and postharvest stages. It covers the principles behind these techniques and their implementation. By integrating theory and practice, this book discusses the potential and associated problems in the development of non-chemical alternatives to protect food and addresses the common hurdles that need to be overcome to enable commercialization and registration of natural products for combating diseases. Focussing on plant foods, this timely book is unique in scope as it offers an international perspective on food deterioration caused by bacterial, fungal, viral, and mycotoxin contamination. It brings together highly respected scientists from differing yet complementary disciplines in one unified work that is important reading for food safety professionals, researchers, and students.

Plant Disease Management Strategies for Sustainable Agriculture through Traditional and Modern Approaches Imran Ul Haq, Siddra Ijaz, 2020-02-12. This book provides an account of the classical and recent trends in plant sciences which have contributed for disease management strategies in plants for sustainable agriculture. Advancements in the disciplines of biological sciences like biotechnology, microbiology, bioinformatics, as well as information and communication technology etc. has given the new dimensions for the development of new plant disease management strategies. By keeping this perspective in view, the editors collected and compiled the useful practical and recent information regarding plant disease management from a diverse group of authors from different countries associated with well-reputed scientific teaching and research organizations with the objective to update and equip the researchers with comprehensive and latest knowledge of plant disease management. This book is based on the knowledge of traditional and modern approaches for plant disease management. It has 15 chapters, each describing the pillar strategies which may be the possible way for crop protection from diseases. This effort deals with the history and recent trends in plant disease control, plant genetics and physiology in disease prognosis, conventional plant breeding program for disease resistance, synthetic chemicals, major component of plant disease management, biological antagonism, expected safe and sustainable way to manage plant diseases, soil microbes and plant health, conventional and modern technologies for the management of post-harvest diseases, nanobiotechnology, an innovative plant disease management approach, transgenic approaches in plants, strategic control for disease management exploiting RNAi mechanism in plants for disease resistance, genome editing technologies for resistance against phytopathogens, principles, applications, and future prospects, plant health clinics in Pakistan, operations and prospects, precision agriculture technologies for management of plant disease, quarantine and regulations, and development and implementation of IDM program for annual and perennial crops.

Microbial Forensics Bruce Budowle, Steven E. Schutzer, Roger G. Breeze, Paul S. Keim, Stephen A. Morse, 2010-10-27. Microbial Forensics is a rapidly evolving scientific discipline. In the last decade and particularly due to the anthrax letter attacks in the

United States microbial forensics has become more formalized and has played an increasingly greater role in crime investigations. This has brought renewed interest, development and application of new technologies and new rules of forensic and policy engagement. It has many applications ranging from biodefense, criminal investigations, providing intelligence, information, making society more secure and helping protect precious resources, particularly human life. A combination of diverse areas is investigated, including the major disciplines of biology, microbiology, medicine, chemistry, physics, statistics, population genetics, and computer science. *Microbial Forensics, Second Edition* is fully revised and updated and serves as a complete reference of the discipline. It describes the advances as well as the challenges and opportunities ahead and will be integral in applying science to help solve future biocrimes. A collection of microbiology, virology, toxicology, and mycology as it relates to forensics in one reference. New and expanded content to include statistical analysis of forensic data and legal admissibility and the standards of evidence to name a few. Includes research information and application of that research to crime scene analysis which will allow practitioners to understand and apply the knowledge to their practice with ease.

DNA Fingerprinting: Advancements and Future Endeavors HIRAK RANJAN DASH, PANKAJ SHRIVASTAVA, BRAJA KISHORE MOHAPATRA, SURAJIT DAS, 2018-11-01. This book describes the basics and various applications of DNA fingerprinting including in actual case studies. The book is divided into four modules: Module 1 Basics of DNA Fingerprinting, Module 2 Applications of DNA Fingerprinting, Module 3 DNA Fingerprinting Case Studies, and Module 4 Future of DNA Fingerprinting. Each module consists of 4 to 5 chapters written by reputed researchers, academics, and forensic scientists from around the globe. The respective chapters cover e.g. related fields, the tools and techniques used, various genotyping kits, real world case studies, ancient DNA, and wild life forensics, molecular diagnosis of human diseases, legal aspects, microbial forensics, and the economics of the DNA fingerprinting technique. The book offers a practical guide for professionals, graduate and post graduate students in the fields of Forensic Science, Medicine, Genetics, Anthropology, Microbiology, and Zoology. It also serves as a useful reference resource summarizing major technological advances in the field of DNA fingerprinting, the problems faced in this field of science, and possible new solutions to these problems. Presently, DNA fingerprinting is utilized in solving the majority of criminal cases, as such the book is also helpful for investigating agencies as it includes representative case studies.

Global Biosecurity Peter Katona, John P. Sullivan, Michael D. Intriligator, 2010-01-21. This book explores a range of biohealth and biosecurity threats, places them in context, and offers responses and solutions from global and local, networked and pyramidal, as well as specialized and interdisciplinary perspectives. Specifically covering bioterrorism, emerging infectious diseases, pandemic disease, preparedness and remediation, agroterrorism, food safety, and environmental issues, the contributors demonstrate that to counter terrorism of any kind, a global, networked, and multidisciplinary approach is essential. To be successful in biosecurity, this book argues it is necessary to extend partnerships, cooperation, and coordination between public health, clinical medicine, private business, law enforcement, and other agencies, locally, nationally,

and internationally Internationally a clear understanding is needed of what has happened in past epidemics and what was accomplished in past bioprograms in Britain South Africa Russia for example This book also assesses how with the right technology and motivation both a state and a non state actor could initiate an extremely credible biothreat to security at both local and national levels This book will be of much interest to students researchers and practitioners of security studies public health public policy and IR in general Peter Katona is Associate Professor of Clinical Medicine at the David Geffen School of Medicine at UCLA in Infectious Diseases He is co founder of Biological Threat Mitigation a bioterror consulting firm John P Sullivan is a lieutenant with the Los Angeles Sheriff s Department He is also a researcher focusing on terrorism conflict disaster intelligence studies and urban operations He is co founder of the Los Angeles Terrorism Early Warning TEW Group Michael D Intriligator is Professor of Economics at the University of California Los Angeles UCLA He is also Professor of Political Science Professor of Public Policy in the School of Public Policy and Social Research and Co Director of the Jacob Marschak Interdisciplinary Colloquium on Mathematics in the Behavioral Sciences all at UCLA

Disease and Security Christian Enemark,2007-06-11 Focusing on East Asia this book sets out a framework for analyzing infectious disease threats in security terms It covers the security significance of naturally occurring disease outbreak events such as SARS and avian influenza the development and use of biological weapons by state and non state actors and the security risks associated with laboratory research on pathogenic micro organisms Christian Enemark devises a conceptual framework for securitization that is useful for policy makers by using the overlaps and synergies between different infectious disease threats The book draws heavily on material from public health and scientific literature to illustrate the cross disciplinary requirements for addressing infectious diseases challenges in security terms Fast moving naturally occurring disease threats are of increasing concern to governments and individuals and it is therefore important to recognize their close relationship to the security challenges posed by Biological Weapons and pathogen research Disease and Security will be of much interest to students of international security public health and Asian politics

Biosecurity Dilemmas Christian Enemark,2017-03-01 Biosecurity Dilemmas examines conflicting values and interests in the practice of biosecurity the safeguarding of populations against infectious diseases through security policies Biosecurity encompasses both the natural occurrence of deadly disease outbreaks and the use of biological weapons Christian Enemark focuses on six dreaded diseases that governments and international organizations give high priority for research regulation surveillance and rapid response pandemic influenza drug resistant tuberculosis smallpox Ebola plague and anthrax The book is organized around four ethical dilemmas that arise when fear causes these diseases to be framed in terms of national or international security protect or proliferate secure or stifle remedy or overkill and attention or neglect For instance will prioritizing research into defending against a rare event such as a bioterrorist attack divert funds away from research into commonly occurring diseases Or will securitizing a particular disease actually stifle research progress owing to security classification measures Enemark provides a

comprehensive analysis of the ethics of securitizing disease and explores ideas and policy recommendations about biological arms control global health security and public health ethics

Globalization, Biosecurity, and the Future of the Life Sciences National Research Council, Institute of Medicine, Board on Global Health, Policy and Global Affairs, Development, Security, and Cooperation, Committee on Advances in Technology and the Prevention of Their Application to Next Generation Biowarfare Threats, 2006-07-07 Biomedical advances have made it possible to identify and manipulate features of living organisms in useful ways leading to improvements in public health agriculture and other areas The globalization of scientific and technical expertise also means that many scientists and other individuals around the world are generating breakthroughs in the life sciences and related technologies The risks posed by bioterrorism and the proliferation of biological weapons capabilities have increased concern about how the rapid advances in genetic engineering and biotechnology could enable the production of biological weapons with unique and unpredictable characteristics Globalization Biosecurity and the Future of Life Sciences examines current trends and future objectives of research in public health life sciences and biomedical science that contain applications relevant to developments in biological weapons 5 to 10 years into the future and ways to anticipate identify and mitigate these dangers

Biological Engagement Programs: Reducing Threats and Strengthening Global Health Security Through Scientific Collaboration Jeanne M. Fair, Hillary H. Carter, Nathan Wolfe, 2017-09-13 Biological engagement programs are a set of projects or activities between partner countries that strengthen global health security to achieve mutually beneficial outcomes Engagement programs are an effective way to work collaboratively towards a common threat reduction goal usually with a strong focus on strengthening health systems and making the world a safer place Cooperative programs are built upon trust and sharing of information and resources to increase the capacity and capabilities of partner countries Biological engagement programs reduce the threat of infectious disease with a focus on pathogens of security concern such as those pathogens identified by the U S Government as Biological Select Agent and Toxins These programs seek to develop technical or scientific relationships between countries to combat infectious diseases both in humans and animals Through laboratory biorisk management diagnostics pathogen detection biosurveillance and countermeasure development for infectious diseases deep relationships are fostered between countries Biological engagement programs are designed to address dual use issues in pathogen research by promoting responsible science methodologies and cultures Scientific collaboration is a core mechanism for engagement programs are designed to strengthen global health security including prevention of avoidable epidemics detection of threats as early as possible and rapid and effective outbreak response This Research Topic discusses Biological Engagement Programs highlighting the successes and challenges of these cooperative programs Articles in this topic outlined established engagement programs as well as described what has been learned from historical cooperative engagement programs not focused on infectious diseases Articles in this topic highlighted selected research trainings and programs in Biological Engagement Programs from

around the world This Topic eBook first delves into Policies and Lessons Learned then describes Initiatives in Biosafety the core of this work documents Cooperative Research Results from the field then lastly the Topic lays out potential Future Directions to the continued success of the World s cooperative science in reducing the threat of infectious diseases

Tactical Sciences for Biosecurity in Animal and Plant Systems Kitty Cardwell,Keith Bailey,2021-09-30 Focuses on the tactical sciences needed to succeed in the biosecurity objectives of preventing plant and animal pathogens from entering or leaving the United States This book explores a divergence of tactics between plant and animal exotic disease response

Biosafety and Biosecurity Approaches to Counter SARS-CoV-2: From Detection to Best Practices and Risk Assessments Stephen Allen Morse,Segaran P. Pillai,Jianming Qiu,Yao-Wei Huang,2021-10-14 *Applied Biosecurity: Global Health, Biodefense, and Developing Technologies* Ryan N. Burnette,2022-06-02 This book describes an adaptable biothreat assessment process to complement overall biorisk management programs incorporating threat management and the unique natures of biological assets Further this book examines the nexus between public health international security and developing technologies building a case for augmenting biosecurity to levels beyond the laboratory constraints With the face of biological and biomedical sciences changing this book describes how with proper biosecurity development these can become assets rather than liabilities to secure our world from natural and man made biological disasters The world is changing rapidly with respect to developing threats such as terrorism and dual use technologies such as synthetic biology that are challenging how we think about biosafety and biosecurity Further the fields of public health and international security are colliding as both of these share the common enemy intentional or natural biological incidents To date biosecurity has been limited to laboratory level application and complicating efforts and lacks credentialed biosecurity professionals skilled in both the biological sciences and threat management techniques The result is a fragmented field of practice with tremendous need from the lab to the outbreak Underpinning these principles is the SARS CoV 2 coronavirus pandemic providing a historic milestone to examine biosecurity through a global lens This book describes biosecurity as a set of practices and principles to be augmented out of the constrained laboratory environment and applied to larger efforts such as international threat reduction and biological incident management

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