



NATIONAL BIOSURVEILLANCE SCIENCE AND TECHNOLOGY ROADMAP

Executive Office of the President
National Science and Technology Council

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National Biosurveillance Science And Technology Roadmap

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National Biosurveillance Science And Technology Roadmap:

National Biosurveillance Science and Technology Roadmap Executive Office of the President Office of Science and Technology, Executive Office of the President Office, 2014-07-17 The National Strategy for Biosurveillance Strategy published in July 2012 calls for a coordinated approach that brings together Federal state local and tribal governments the private sector nongovernmental organizations and international partners to enhance existing biosurveillance capabilities and where necessary develop new ones that provide decision makers and responders with the essential information they need to mitigate impacts of threats to health and associated economic societal and political consequences The Strategy recognizes that a well integrated national biosurveillance enterprise can save lives by providing essential information for better decision making at all levels The interagency Biosurveillance Science and Technology Working Group BST WG chartered in May 2012 was established under the Subcommittee on Biological Defense Research and Development of the National Science and Technology Council's Committee on Homeland and National Security to develop national biosurveillance research and development priorities to enable the Core Functions of the Strategy

National Biosurveillance Strategy and Associated Science and Technology Roadmaps Amanda Wendell, 2014 A well integrated national biosurveillance enterprise is a national security imperative The United States ability to detect quickly and characterise a potential incident of national significance that affects human animal or plant health is of paramount importance Rapid detection and enhanced situational awareness are critical to saving lives and improving incident outcomes whether the result of a bioterrorism attack or other weapons of mass destruction WMD threat an emerging infectious disease pandemic environmental disaster or a food borne illness Beyond the need to protect domestic interests and because health threats transcend national borders the United States also plays a vital role within an international network of biosurveillance centres across the globe This book focuses on the national strategy for biosurveillance and the national biosurveillance science and technology roadmap

National biosurveillance science and technology roadmap National Science and Technology Council (U.S.), 2013

Defense Against Biological Attacks Sunit K. Singh, Jens H. Kuhn, 2019-03-30 This first volume of a two volume set describes general aspects such as the historical view on the topic the role of information distribution and preparedness of health care systems and preparedness in emergency cases Part two describes and discusses in detail the pathogens and toxins that are potentially used for biological attacks As such the book is a valuable resource for faculties engaged in molecular biology genetic engineering neurology biodefense biosafety biosecurity virology and infectious disease programs as well as professional medical research organizations

BioWatch PCR Assays National Research Council, Institute of Medicine, Board on Health Sciences Policy, Division on Earth and Life Studies, Board on Life Sciences, Committee on PCR Standards for the BioWatch Program, 2015-06-26 BioWatch is an air monitoring system deployed in jurisdictions around the country with the goal of detecting the presence of certain high risk pathogenic microorganisms It relies on a network of

federal and nonfederal collaborative relationships to be successful and is one part of a larger array of disease surveillance intelligence gathering and biomonitoring activities in support of public safety and health. The assays used in the BioWatch system to detect the presence of pathogens in collected samples rely on the technique of polymerase chain reaction (PCR) to sensitively and specifically amplify target nucleic acid sequences. BioWatch PCR Assays evaluates and provides guidance on appropriate standards for the validation and verification of PCR tests and assays in order to ensure that adequate performance data are available to public health and other key decision makers with a sufficient confidence level to facilitate the public health response to a BioWatch Actionable Response. This report discusses principles of performance standards, reviews information from several existing guidance documents and standards that might be applicable to BioWatch, and discusses assay testing efforts that have occurred or are ongoing. BioWatch PCR Assays provides recommendations on general principles and approaches for a performance standard and validation framework to meet BioWatch's mission. The report also considers how developments in technology, particularly in multiplex PCR and next generation sequencing, can contribute to the ability of the BioWatch program to meet current and future challenges. This report has been determined to contain information exempt from disclosure under 5 U.S.C. 552(b) Section 15 of the Federal Advisory Committee Act provides that the National Academies shall make its final report available to the public unless the National Academies determines that the report would disclose matters described in one or more of the exemption provisions under the Freedom of Information Act (FOIA). In such case, the National Academies shall make public an abbreviated version of the report that does not disclose those matters. This unrestricted abbreviated version of the report represents in so far as possible the committee's findings, recommendations, and other substantive material without disclosing materials described in 5 U.S.C. 552(b). Rapid Medical Countermeasure Response to Infectious Diseases. National Academies of Sciences, Engineering, and Medicine, Institute of Medicine, Board on Global Health, Board on Health Sciences Policy, Forum on Microbial Threats, Forum on Drug Discovery, Development, and Translation, Forum on Medical and Public Health Preparedness for Catastrophic Events, 2016-03-12.

Emerging infectious disease threats that may not have available treatments or vaccines can directly affect the security of the world's health since these diseases also know no boundaries and will easily cross borders. Sustaining public and private investment in the development of medical countermeasures (MCMs) before an emerging infectious disease becomes a public health emergency in the United States has been extremely challenging. Interest and momentum peak during a crisis and wane between events, and there is little interest in disease threats outside the United States until they impact people stateside. On March 26 and 27, 2015, the Institute of Medicine convened a workshop in Washington, DC, to discuss how to achieve rapid and nimble MCM capability for new and emerging threats. Public and private sector stakeholders examined recent efforts to prepare for and respond to outbreaks of Ebola Virus Disease, pandemic influenza, and coronaviruses from policy, budget, and operational standpoints. Participants discussed the need for rapid access to MCM to ensure national

security and considered strategies and business models that could enhance stakeholder interest and investment in sustainable response capabilities This report summarizes the presentations and discussions from this workshop **Koenig and Schultz's Disaster Medicine** Kristi L. Koenig, Carl H. Schultz, 2016-02-16 As societies become more complex and interconnected the global risk for catastrophic disasters is increasing Demand for expertise to mitigate the human suffering and damage these events cause is also high A new field of disaster medicine is emerging offering innovative approaches to optimize disaster management Much of the information needed to create the foundation for this growing specialty is not objectively described or is scattered among multiple different sources This definitive work brings together a coherent and comprehensive collection of scientific observations and evidence based recommendations with expert contributors from around the globe This book identifies essential subject matter clarifies nomenclature and outlines necessary areas of proficiency for healthcare professionals handling mass casualty crises It also describes in depth strategies for the rapid diagnosis and treatment of victims suffering from blast injuries or exposure to chemical biological and radiological agents

Global Issues CQ Researcher, 2015-05-12 CQ Researcher's Global Issues offers an in depth and nuanced look at a wide range of today's most pressing issues The 2015 edition of this annual reader looks at topics such as Russia's resurgence global hunger U S global engagement transnational crime and al Qaeda's continuing threat And because it's CQ Researcher the reports are expertly researched and written Each chapter identifies the key players explores what's at stake and offers the background and analysis necessary to understand how past and current developments impact the future of each issue

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 **Transforming Public Health Surveillance - E-Book** Scott J.N. McNabb, J Mark Conde, Lisa Ferland, Ziad Memish, Stacy Okutani, Meeyoung Park, Affan T. Shaikh, Vivek Singh, 2016-05-02 Public Health Surveillance PHS is of primary importance in this era of emerging health threats like Ebola MERS CoV influenza natural and man made disasters and non communicable diseases Transforming Public Health Surveillance is a forward looking topical and up to date overview of the issues and solutions facing PHS It describes the realities of the gaps and impediments to efficient and effective PHS while presenting a vision for its possibilities and promises in the 21st century The book gives a roadmap to the goal of public health information being available when it is needed and where it is needed Led by Professor Scott McNabb a leader in the field an international team of the top notch public health experts from academia government and non governmental organizations provides the most complete and current update on this core area of public health practice in a decade in 32 chapters This includes the key roles PHS plays in achieving the global health security agenda and health equity The authors provide a global perspective for students and professionals in public health Seven scenarios lay out an aid to understand the context for the lessons of the book and a comprehensive glossary questions bullet points and learning objectives make this book an excellent tool in the

classroom **Supplemental Nutrition Assistance Program** United States. Congress. House. Committee on Agriculture. Subcommittee on Nutrition, United States. Congress. House. Committee on Agriculture, 2015 **Research Progress on Environmental, Health, and Safety Aspects of Engineered Nanomaterials** National Research Council, Division on Engineering and Physical Sciences, Division on Earth and Life Studies, National Materials and Manufacturing Board, Board on Chemical Sciences and Technology, Board on Environmental Studies and Toxicology, Committee to Develop a Research Strategy for Environmental, Health, and Safety Aspects of Engineered Nanomaterials, 2013-12-25 Despite the increase in funding for research and the rising numbers of peer reviewed publications over the past decade that address the environmental health and safety aspects of engineered nanomaterials ENMs uncertainty about the implications of potential exposures of consumers workers and ecosystems to these materials persists Consumers and workers want to know which of these materials they are exposed to and whether the materials can harm them Industry is concerned about being able to predict with sufficient certainty whether products that it makes and markets will pose any environmental health or safety issues and what measures should be taken regarding manufacturing practices and worldwide distribution to minimize any potential risk However there remains a disconnect between the research that is being carried out and its relevance to and use by decision makers and regulators to make informed public health and environmental policy and regulatory decisions Research Progress on Environmental Health and Safety Aspects of Nanomaterials evaluates research progress and updates research priorities and resource estimates on the basis of results of studies and emerging trends in the nanotechnology industry This report follows up the 2012 report A Research Strategy for Environmental Health and Safety Aspects of Engineered Nanomaterials which presented a strategic approach for developing the science and research infrastructure needed to address uncertainties regarding the potential environmental health and safety risks posed by ENMs This new report looks at the state of nanotechnology research examines market and regulatory conditions and their affect on research priorities and considers the criteria for evaluating research progress on the environmental health and safety aspects of nanotechnology **Issues in Science and Technology**, 2013 India-United States Cooperation on Science and Technology for Countering Terrorism National Institute for Advanced Studies, Bangalore, India, National Academy of Sciences, Committee on India-United States Cooperation on Science and Technology for Countering Terrorism, 2014-12-23 India and the United States are the world s two largest democracies with distinguished scientific traditions and experts in a wide range of scientific technical fields Given these strengths and the ability to learn from one another the U S National Academy of Sciences together with the National Institute for Advanced Studies in Bangalore India held a joint Indian U S workshop to identify and examine potential areas for substantive scientific and technical cooperation that can support counterterrorism efforts through the Homeland Security Dialogue and through direct cooperation India United States Cooperation on Science and Technology for Countering Terrorism is the summary of that workshop This report examines

topics such as biological threats protection of nuclear facilities security physical and cyber for chemicals chemical facilities and other critical infrastructure and monitoring surveillance and emergency response The report also identifies and examines promising areas for further Indian U S cooperation

Report on Legislative and Oversight Activities, January 3, 2009, 110-2 House Report 110-940 ,2009 **Report on Legislative and Oversight Activities of the House Committee on Homeland Security** United States. Congress. House. Committee on Homeland Security,2008

Legislative Calendar United States. Congress. House. Committee on Homeland Security,2007 Improving the Nation's Water Security National Research Council,Division on Earth and Life Studies,Water Science and Technology Board,Committee on Water System Security Research,2007-06-15 Concern over terrorist attacks since 2001 has directed attention to potential vulnerabilities of the nation s water and wastewater systems The Environmental Protection Agency EPA which leads federal efforts to protect the water sector initiated a research program in 2002 to address immediate research and technical support needs This report conducted at EPA s request evaluates research progress and provides a long term vision for EPA s research program The report recommends that EPA develop a strategic research plan address gaps in expertise among EPA program managers and researchers and improve its approaches to information dissemination The report recommends several high priority research topics for EPA including conducting empirical research in behavioral science to better understand how to prepare people for water security incidents *Conservation Research, Policy and Practice* William J. Sutherland,Peter N. M. Brotherton,Zoe G. Davies,Nancy Ockendon,Nathalie Pettorelli,Juliet A. Vickery,2020-04-16 Discover how conservation can be made more effective through strengthening links between science research policy and practice This title is also available as Open Access on Cambridge Core Accelerating the Adoption of Health Information Technology United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Technology, Innovation, and Competitiveness,2011

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **National Biosurveillance Science And Technology Roadmap**

In a world inundated with screens and the cacophony of instant interaction, the profound power and mental resonance of verbal art often diminish in to obscurity, eclipsed by the constant onslaught of noise and distractions. Yet, set within the lyrical pages of **National Biosurveillance Science And Technology Roadmap**, a fascinating perform of fictional elegance that pulses with fresh feelings, lies an wonderful trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that mesmerizing opus books viewers on an emotional odyssey, softly exposing the latent possible and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse with this evocative analysis, we will embark upon an introspective exploration of the book is central styles, dissect its fascinating publishing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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