

Bioweapons Program&sortm

National Research Council,Policy and Global Affairs,Development, Security, and Cooperation,Office for Central Europe and Eurasia,Committee on Prevention of Proliferation of Biological Weapons in States Beyond the Former Soviet Union

Biohazard Ken Alibek, Stephen Handelman, 2014-03-05 “Read and be amazed. . . . An important and fascinating look into a terrifying world of which we were blissfully unaware.”—Robin Cook, author of *Contagion* Anthrax. Smallpox. Incurable and horrifying Ebola-related fevers. For two decades, while a fearful world prepared for nuclear winter, an elite team of Russian bioweaponers began to till a new killing field: a bleak tract sown with powerful seeds of mass destruction—by doctors who had committed themselves to creating a biological Armageddon. *Biohazard* is the never-before-told story of Russia’s darkest, deadliest, and most closely guarded Cold War secret. No one knows more about Russia’s astounding experiments with biowarfare than Ken Alibek. Now the mastermind behind Russia’s germ warfare effort reveals two decades of shocking breakthroughs . . . how Moscow’s leading scientists actually reengineered hazardous microbes to make them even more virulent . . . the secrets behind the discovery of an invisible, untraceable new class of biological agents just right for use in political assassinations . . . the startling story behind Russia’s attempt to turn a sample of the AIDS virus into the ultimate bioweapon. And in a chilling work of real-world intrigue, *Biohazard* offers us all a rare glimpse into a shadowy scientific underworld where doctors manufacture mass destruction, where witnesses to errors are silenced forever, and where ground zero is closer than we ever dared believe. Praise for *Biohazard* “Harrowing . . . richly descriptive . . . [an] absorbing account.”—The New York Times Book Review “Remarkable . . . terrifying revelations . . . [Ken Alibek’s] overall message is ignored at great national peril.”—Newsday

The Soviet Biological Weapons Program Milton Leitenberg, Raymond A Zilinskas, Jens H Kuhn, 2012-06-29 This is the first attempt to understand the full scope of the USSR’s offensive biological weapons research, from inception in the 1920s. Gorbachev tried to end the program, but the U.S. and U.K. never obtained clear evidence that he succeeded, raising the question whether the means for waging biological warfare could be present in Russia today.

Deadly Cultures Mark Wheelis, Lajos Rózsa, 2009-06-30 The threat of biological weapons has never attracted as much public attention as in the past five years. Yet there has been little historical analysis of such weapons over the past half-century. *Deadly Cultures* sets out to fill this gap by analyzing the historical developments since 1945 and addressing three central issues: why states have continued or begun programs for acquiring biological weapons, why states have terminated biological weapons programs, and how states have demonstrated that they have truly terminated their biological weapons programs.

Assessing the Biological Weapons and Bioterrorism Threat Milton Leitenberg, 2005 It is nearly 15 years since biological weapons (BW) have become a significant national security preoccupation. The events of September 11, 2001, although not in any way related to BW, combined with the distribution of professionally prepared anthrax spores through the U.S. postal system in the weeks afterwards, magnified previous concerns by orders of magnitude.

A Short History of Biological Warfare W. Seth Carus, National Defense University (U S), National Defense University. Center for the Study of Weapons of Mass Destruction, 2017-08-03 This publication gives a history of biological warfare (BW) from the prehistoric period through the present, with a section on the future of BW. The publication relies on works by historians who used primary sources dealing with BW. In-depth definitions of biological agents, biological weapons, and biological warfare (BW) are included, as well as an appendix of further reading on the subject. Related items: Arms & Weapons publications can be found here: <https://bookstore.gpo.gov/catalog/arms-weapons> Hazardous Materials (HAZMAT & CBRNE) publications can be found here: <https://bookstore.gpo.gov/catalog/hazardous-materials-hazmat-cbrne>

Biological Warfare Raymond A. Zilinskas, 2000 Recent revelations about Iraqi and Soviet/Russian biological weapons programs and highly

publicized events such as the deployment of anthrax and botulinum by the Aum Shinrikyo sect in Japan have made clear the necessity for addressing the issues of biological warfare and defense. In a comprehensive analysis of this imminent threat to global security, fourteen internationally recognized authorities consider the motivations of governments and terrorist groups seeking to acquire biological weapons; managing the consequences of a biological attack; techniques for weapons development; methods for detection of pathogens and toxins; defense against biological weapons; and international efforts to counter their proliferation.

Assessing the Biological Weapons and Bioterrorism Threat ,

The Soviet Biological Weapons Program and Its Legacy in Today's Russia Raymond A. Zilinskas, 2017-02-04 In its first Weapons of Mass Destruction (WMD) Case Study, the Center for the Study of Weapons of Mass Destruction (CSWMD) at the National Defense University examined President Richard M. Nixon's decision, on November 25, 1969, to terminate the U.S. offensive biological weapons program. This occasional paper seeks to explain why the Soviet government, at approximately the same time, decided to do essentially the opposite, namely, to establish a large biological warfare (BW) program that would be driven by newly discovered and powerful biotechnologies. By introducing the innovation of recombinant DNA technology - commonly referred to as genetic engineering - the Soviets were attempting to create bacterial and viral strains that were more useful for military purposes than were strains found in nature. In historical terms, the Soviet BW program had two so-called generations, defined as distinct periods of time during which types of weapons were developed from earlier types. The first generation of the Soviet BW program commenced about 1928 and was based on naturally occurring pathogens that had caused devastating epidemics during World War I and the subsequent Russian Civil War. The second generation began approximately in 1972 when the decision was made at the highest political level to institute a research and development (R&D) system that utilized newly discovered techniques of genetic engineering to create novel or enhanced bacterial and viral strains that were better adapted for BW purposes than strains found in nature. President Boris Yeltsin ordered the cessation of the offensive BW program some months after the Soviet Union dissolved in December 1991 and in 1992 publically stated that it had conducted an offensive BW program in violation of the Biological and Toxin Weapons Convention. However, after Vladimir Putin was elected president, high-level Russian officials have lied about the Soviet BW program, stating that it was strictly a defensive program that had not broken international law. As is discussed later in this paper, elements of the Soviet offensive BW program continue in Russia and may provide the basis for a third-generation BW program supported by the current leadership. The first section of this paper describes the Soviet BW program's first generation, including its establishment, work plan and operations, and accomplishments. The second section focuses on establishing the conditions for the Soviet decision that was made sometime during 1969-1971 to establish and operate the second generation BW program. Conditions that are considered include the geopolitical challenges as perceived by the Soviet government, the decision making process for military acquisitions, and the inferior state of the biosciences in the Soviet Union at that time, which stimulated Soviet bioscientists to play the military card in order to introduce genetic engineering into the Union of Soviet Socialist Republics' (USSR's) bioscience establishment. The final section has two sub-sections. The first summarizes the key factors that drove Soviet decisionmaking in the early 1970s to institute a huge offensive BW program. The second informs readers that even before Vladimir Putin was elected president for the second time, he openly stated that new weapons were to be developed using high technologies including genetics. Based on this promise, and considering the secrecy that still keeps the military biological institutes and anti-plague institutes closed to outsiders, the paper discusses the possibility that the Putin administration may institute a third generation BW program. The appendix consists of a short biography of the Soviet general Yefim Ivanovich Smirnov who was for many years in charge of the Soviet BW program.

Biological Weapons Joshua Lederberg, 1999 foreword by William S. Cohen, U.S. Secretary of Defense Biological weapons pose a horrifying and

growing threat to the United States and to the world in general. Revelations about Iraq's weapons research and the plans of the Aum Shinrikyo cult in Japan serve as frightening reminders of the potential for military or terrorist use of biological agents. The essays in this book, many of which were originally published in the Journal of the American Medical Association, examine the medical, scientific, and political dimensions of limiting the threat posed by biological weapons. The contributors consider the current threat posed by biological weapons, the history of attempts to control them, episodes in which biological agents have been used, Iraq's biological warfare program, and policies that the United States might pursue to reduce the threat. Contributors Suzanne Barth, Pamela Berkowsky, Kristin A. Birkness, Stephen Black, W. Russell Byrne, W. Seth Carus, Marie Chevrier, George W. Christopher, Theodore J. Cieslak, Richard Danzig, Edward M. Eitzen, Jr., Charles C. Engel, James R. Ferguson, Laurence R. Foster, David R. Franz, Arthur M. Friedlander, Carol S. Fullerton, Jeanne Guillemin, Charles E. Haley, Harry C. Holloway, David L. Hoover, John M. Horan, Martin Hugh-Jones, Peter B. Jahrling, Robert P. Kadlec, Akiko Kimura, Shellie A. Kolavic, Alexander Langmuir, John R. Livengood, Karl Lowe, Steven Mauvais, David J. McClain, Matthew Meselson, Ann E. Norwood, Julie A. Pavlin, Graham S. Pearson, Ilona Popova, Alexis Shelokov, Jeffrey D. Simon, Shauna L. Simons, Michael R. Skeels, Laurence Slutsker, Robert Sokolow, Robert V. Tauxe, Thomas J. Török, Jonathan B. Tucker, Robert J. Ursano, Victor Utgoff, Ann M. Vrtis, Robert P. Wise, Olga Yampolskaya, Allan P. Zelicoff, Raymond A. Zilinskas

Biological Weapons Jeanne Guillemin, 2005 A timely account of how resources for biological weapons programs were mobilized and why such weapons have never been deployed in major conflicts offers an understanding of the relevance of the historical restraints placed on the use of biological weapons and looks at what can be done to prevent their proliferation in the post-September 11th world.

Engineering Bio-terror Agents United States. Congress. House. Committee on Homeland Security. Subcommittee on the Prevention of Nuclear and Biological Attack, 2006

Biological Threats in the 21st Century Filippa Lentzos, 2016-07-13 Biological Threats in the 21st Century offers a fresh understanding of contemporary biological threats to national security. Readers are introduced to the politics, people, science and historical roots of contemporary biological threats through up-to-date, rigorous and accessible chapters written by leading academics and supplemented by expert point-of-view contributions and interviews. The book provides inspiration and resources for students and researchers, as well as policy makers in government, the public policy sector and the wider community. It is particularly pertinent for those interested in biological disarmament, non-proliferation, counterterrorism and health security. Contents: Editor's Introduction: The Politics, People, Science and Historical Roots (Filippa Lentzos) Crossing the Normative Barrier: Japan's Biological Warfare in China in World War II (Jeanne Guillemin) Past Proliferators: The British, United States and Canadian Biological Warfare Programs (Brian Balmer & John Ellis van Courtland Moon) Point of View: Open-Air Biowarfare Testing: American and British Experiences (Leonard A. Cole) The Soviet Biological Warfare Program (Jens H. Kuhn & Milton Leitenberg) Point of View: Life Inside the Soviet Bioweapons Program (Sonia Ben Ouagrham-Gormley) The Iraqi Biological Warfare Program (Tim Trevan) Point of View: Hunting Saddam's Biological Weapons: A First-Hand Account (Gabriele Kraatz-Wadsack) The South African Biological Warfare Program (Alastair Hay) Point of View: Open Secrets: 'Truth Telling' and Transitional Justice in Revealing Biowarfare Programs (Chandré Gould) Bioweapons in Today's Context: RISE, the Rajneeshees, Aum Shinrikyo and Bruce Ivins (W. Seth Carus) Point of View: Inside the Mind of a Bioterrorist (Toby Ewin) Aftershocks of the 2001 Anthrax Attacks (Kathleen M. Vogel) Point of View: The Threat of Misuse (Gigi Kwik Gronvall) Searching for Cures or Creating Pandemics in the Lab? (Nancy D. Connell & Brian Rappert) Point of View: Dangerous Life Sciences Research (David R. Franz) Ebola: From Public Health Crisis to National Security Threat (Nicholas G. Evans) Point of View: Building a Sustainable Biodefense Industry (Jacob Thorup Cohn) Quandaries in Contemporary Biodefense Research (Gregory D. Koblentz) Disarmament and Non-Proliferation: The Traditional Tools of Biological Arms Control and Disarmament (Marie Isabelle Chevrier)

& Alex Spelling)Witness Seminar: Origins of the Biological Weapons Convention (Jeanne Guillemin, Matthew Meselson, Julian Perry Robinson & Nicholas Sims)Interview: Unconventional Weapons and Activist Scientists (Steven Rose & Filippa Lentzos)Point of View: Responsible Science: Strategies for Engaging Key Stakeholders (Jo L Husbands)Interview: International Security and Counter-Terrorism (Trevor Smith & Filippa Lentzos)Point of View: The Front Lines of Biological Weapons Non-Proliferation (Melissa Finley & Jennifer Gaudioso)Roundtable: The Future of Biothreat Governance (Iris Hunger, Jez Littlewood, Caitriona McLeish, Piers Millett & Ralf Trapp) Readership: Students and researchers, as well as policy makers in government, the public policy sector and the wider community. It is particularly pertinent for those interested in biological disarmament, non-proliferation, counterterrorism and health security.

Bio-Weapons Ajay Lele,2008-02 Examines The Historical Context Of Biological Weapons And Addresses The Need Of Realistic Threat And Risk Assessment Of Bio-Terrorism. Has Some Case Studies Which Bring Out Technological And Political Dimension On The Subject.

The United States and Biological Warfare Stephen Endicott,Edward Hagerman,1998-11-22 The United States and Biological Warfare] is a major contribution to our understanding of the past involvement by the US and Japanese governments with BW, with important, crucial implications for the future.... Pieces of this story, including the Korean War allegations, have been told before, but never so authoritatively, and with such a convincing foundation in historical research.... This is a brave and significant scholarly contribution on a matter of great importance to the future of humanity. -- Richard Falk, Albert G. Milbank Professor of International Law and Practice, Princeton University The United States and Biological Warfare argues persuasively that the United States experimented with and deployed biological weapons during the Korean War. Endicott and Hagerman explore the political and moral dimensions of this issue, asking what restraints were applied or forgotten in those years of ideological and political passion and military crisis. For the first time, there is hard evidence that the United States lied both to Congress and the American public in saying that the American biological warfare program was purely defensive and for retaliation only. The truth is that a large and sophisticated biological weapons system was developed as an offensive weapon of opportunity in the post-World War II years. From newly declassified American, Canadian, and British documents, and with the cooperation of the Chinese Central Archives in giving the authors the first access by foreigners to relevant classified documents, Endicott and Hagerman have been able to tell the previously hidden story of the extension of the limits of modern war to include the use of medical science, the most morally laden of sciences with respect to the sanctity of human life. They show how the germ warfare program developed collaboratively by Great Britain, Canada, and the United States during the Second World War, together with information gathered from the Japanese at the end of World War II about their biological warfare technology, was incorporated into an ongoing development program in the United States. Startling evidence from both Chinese and American sources is presented to make the case. An important book for anyone interested in the history and morality of modern warfare.

Barriers to Bioweapons Sonia Ben Ouagrham-Gormley,2014-12-15 In both the popular imagination and among lawmakers and national security experts, there exists the belief that with sufficient motivation and material resources, states or terrorist groups can produce bioweapons easily, cheaply, and successfully. In *Barriers to Bioweapons*, Sonia Ben Ouagrham-Gormley challenges this perception by showing that bioweapons development is a difficult, protracted, and expensive endeavor, rarely achieving the expected results whatever the magnitude of investment. Her findings are based on extensive interviews she conducted with former U.S. and Soviet-era bioweapons scientists and on careful analysis of archival data and other historical documents related to various state and terrorist bioweapons programs. Bioweapons development relies on living organisms that are sensitive to their environment and handling conditions, and therefore behave unpredictably. These features place a greater premium on specialized knowledge. Ben Ouagrham-Gormley posits that lack of access to such intellectual capital constitutes the greatest barrier to the making of

bioweapons. She integrates theories drawn from economics, the sociology of science, organization, and management with her empirical research. The resulting theoretical framework rests on the idea that the pace and success of a bioweapons development program can be measured by its ability to ensure the creation and transfer of scientific and technical knowledge. The specific organizational, managerial, social, political, and economic conditions necessary for success are difficult to achieve, particularly in covert programs where the need to prevent detection imposes managerial and organizational conditions that conflict with knowledge production.

Biological War S.k. Prasad, 2009

Biowarrior Igor V. Domaradskij, Wendy Orent, 2010-05 This extraordinary memoir by a leading Russian scientist who worked for decades at the nerve center of the top-secret Biopreparat offers a chilling look into the biological weapons program of the former Soviet Union, vestiges of which still exist today in the Russian Federal Republic. Igor Domaradskij calls himself an inconvenient man: a dedicated scientist but a nonconformist who was often in conflict with government and military apparatchiks. In this book he reveals the deadly nature of the research he participated in for almost fifteen years. From 1950 till 1973, Domaradskij played an increasingly important role as a specialist in the area of epidemic bacterial infections. He was largely responsible for an effective system of plague control within the former USSR, which prevented mass outbreaks of rodent-born diseases. But after twenty-three years of making significant scientific contributions, his work was suddenly redirected. Under pressure from the Soviet military he helped design, create, and direct Biopreparat, the goal of which was to develop new types of biological weapons. From the inception of this highly secret venture Domaradskij openly expressed his skepticism and criticized it as a risky gamble and a serious error by the government. Eventually his critical attitude forced him out of the communist party, and finally cost him the opportunity of continuing his scientific work. Domaradskij goes into great detail about the secrecy, intrigue, and the bureaucratic maze that enveloped the Biopreparat scientists, making them feel like helpless pawns. What stands out in his account is the hasty, patchwork nature of the Soviet effort in bioweaponry. Far from being a smooth-running, terrifying monolith, this was an enterprise cobbled together out of the conflicts and contretemps of squabbling party bureaucrats, military know-nothings, and restless, ambitious scientists. In some ways the inefficiency and lack of accountability in this system make it all the more frightening as a worldwide threat. For today its dimensions are still not fully known, nor is it certain that any one group is completely in control of the proliferation of this lethal weaponry. *Biowarrior* is disturbing but necessary reading for anyone wishing to understand the nature and dimensions of the biological threat in an era of international terrorism. Igor V. Domaradskij (Moscow, Russia) is chief research fellow of the Moscow G. N. Institute of Epidemiology and Microbiology; a member of the Russian Academy of Medical Sciences and the Academy of Natural Sciences of Russia; and the author of fourteen books on microbiology, biochemistry, and immunology. Wendy Orent (Atlanta, GA) is a freelance writer and ethnologist.

Countering Biological Threats National Research Council, Policy and Global Affairs, Development, Security, and Cooperation, Office for Central Europe and Eurasia, Committee on Prevention of Proliferation of Biological Weapons in States Beyond the Former Soviet Union, 2009-05-27 In response to a request from the U.S. Congress, this book examines how the unique experience and extensive capabilities of the Department of Defense (DOD) can be extended to reduce the threat of bioterrorism within developing countries outside the former Soviet Union (FSU). During the past 12 years, DOD has invested \$800 million in reducing the risk from bioterrorism with roots in the states of the FSU. The program's accomplishments are many fold. The risk of bioterrorism in other countries is too great for DOD not to be among the leaders in addressing threats beyond the FSU. Taking into account possible sensitivities about a U.S. military presence, DOD should engage interested governments in about ten developing countries outside the FSU in biological threat reduction programs during the next five years. Whenever possible, DOD should partner with other organizations

that have well established humanitarian reputations in the countries of interest. For example, the U.S. Agency for International Development, the Centers for Disease Control and Prevention, and the World Health Organization should be considered as potential partners.

Giving Full Measure to Countermeasures National Research Council, Institute of Medicine, Board on Life Sciences, Medical Follow-up Agency, Committee on Accelerating the Research, Development, and Acquisition of Medical Countermeasures Against Biological Warfare Agents, 2004-05-06 In recent years, substantial efforts have been initiated to develop new drugs, vaccines, and other medical interventions against biological agents that could be used in bioterrorist attacks against civilian populations. According to a new congressionally mandated report from the Institute of Medicine and National Research Council of the National Academies, to successfully develop these drugs, vaccines, and other medical interventions against biowarfare agents, Congress should authorize the creation of a new agency within the Office of the Secretary of the U.S. Department of Defense. The committee recommended that Congress should improve liability protections for those who develop and manufacture these products, to stimulate willingness to invest in new research and development for biowarfare protection. *Giving Full Measure to Countermeasures* also identifies other challenges—such as the need for appropriate animal models and laboratories equipped with high-level biosafety protections—that will require attention if DoD efforts to develop new medical countermeasures are to be successful.

Biological Weapons Clay Farris Naff, 2006 Collection of essays discussing the origins and history of bioweapons, types of bioweapons, personal experiences with biological warfare, defending against a biological attack, and the emerging threats of new biological weaponry.

The book delves into Bioweapons Program&sortm. Bioweapons Program&sortm is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Bioweapons Program&sortm, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Bioweapons Program&sortm
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 - Chapter 5: Conclusion
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6. In chapter 5, this book will draw a conclusion about Bioweapons Program&sortm. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Bioweapons Program&sortm.

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