

Bioweapons Program&sorty

Jeanne Guillemin

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 bioweaponeers 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.

Germ Gambits Amy Smithson, 2011-07-18 This book tells the tale of how international inspectors beat incredible odds to unveil Iraq's covert bioweapons program, draws lessons from this experience that should be applied to help arrest future bioweapons programs, places the Iraq bioweapons saga in the context of other manmade biological risks, and makes recommendations to reduce those perils.

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.

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

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Living Weapons Gregory D. Koblentz, 2011-05-16 Biological weapons are widely feared, yet rarely used. Biological weapons were the first weapon prohibited by an international treaty, yet the proliferation of these weapons increased after they were banned in 1972. Biological weapons are frequently called 'the poor man's atomic bomb,' yet they cannot provide the same deterrent capability as nuclear weapons. One of my goals in this book is to explain the underlying principles of these apparent paradoxes.—from *Living Weapons* Biological weapons are the least well understood of the so-called weapons of mass destruction. Unlike nuclear and chemical weapons, biological weapons are composed of, or derived from, living organisms. In *Living Weapons*, Gregory D. Koblentz provides a comprehensive analysis of the unique challenges that biological weapons pose for international security. At a time when the United States enjoys overwhelming conventional military superiority, biological weapons have emerged as an attractive means for less powerful states and terrorist groups to wage asymmetric warfare. Koblentz also warns that advances in the life sciences have the potential to heighten the lethality and variety of biological weapons. The considerable overlap between the equipment, materials and knowledge required to develop biological weapons, conduct civilian biomedical research, and develop biological defenses creates a multiuse dilemma that limits the effectiveness of verification, hinders civilian oversight, and complicates threat assessments. *Living Weapons* draws on the American, Soviet, Russian, South African, and Iraqi biological weapons programs to enhance our understanding of the special challenges posed by these weapons for arms control, deterrence, civilian-military

relations, and intelligence. Koblentz also examines the aspirations of terrorist groups to develop these weapons and the obstacles they have faced. Biological weapons, Koblentz argues, will continue to threaten international security until defenses against such weapons are improved, governments can reliably detect biological weapon activities, the proliferation of materials and expertise is limited, and international norms against the possession and use of biological weapons are strengthened.

Biological Weapons Jeanne Guillemin, 2004-12-14 Until the events of September 11 and the anthrax attacks of 2001, biological weapons had never been a major public concern in the United States. Today, the possibility of their use by terrorists against Western states looms large as an international security concern. In *Biological Weapons*, Jeanne Guillemin provides a highly accessible and compelling account of the circumstances under which scientists, soldiers, and statesmen were able to mobilize resources for extensive biological weapons programs and also analyzes why such weapons, targeted against civilians, were never used in a major conflict. This book is essential for understanding the relevance of the historical restraints placed on the use of biological weapons for today's world. It serves as an excellent introduction to the problems biological weapons pose for contemporary policymakers and public officials, particularly in the United States. How can we best deter the use of such weapons? What are the resulting policies of the Department of Homeland Security? How can we constrain proliferation? Jeanne Guillemin wisely points out that these are vitally important questions for all Americans to consider and investigate—all the more so because the development of these weapons has been carried out under a veil of secrecy, with their frightening potential open to exploitation by the media and government. Public awareness through education can help calm fears in today's tension-filled climate and promote constructive political action to reduce the risks of a biological weapons catastrophe. *Biological Weapons* is required

reading for every concerned citizen, government policymaker, public health official, and national security analyst who wants to understand this complex and timely issue.

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.

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.

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 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.

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-borne 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 Gabrichevsky 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.

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,2004-04-06 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.

The Problem of Biological Weapons Milton

Leitenberg,2004

Better Safe Than Sorry Michael Krepon,2009-01-02 In 2008, the iconic doomsday clock of the Bulletin of the Atomic Scientists was set at five minutes to midnight—two minutes closer to Armageddon than in 1962, when John F. Kennedy and Nikita Khrushchev went eyeball to eyeball over missiles in Cuba! We still live in an echo chamber of fear, after eight years in which the Bush administration and its harshest critics reinforced each other's worst fears about the Bomb. And yet, there have been no mushroom clouds or acts of nuclear terrorism since the Soviet Union dissolved, let alone since 9/11. Our worst fears still could be realized at any time, but Michael Krepon argues that the United States has never possessed more tools and capacity to reduce nuclear dangers than it does today - from containment and

deterrence to diplomacy, military strength, and arms control. The bloated nuclear arsenals of the Cold War years have been greatly reduced, nuclear weapon testing has almost ended, and all but eight countries have pledged not to acquire the Bomb. Major powers have less use for the Bomb than at any time in the past. Thus, despite wars, crises, and Murphy's Law, the dark shadows cast by nuclear weapons can continue to recede. Krepon believes that positive trends can continue, even in the face of the twin threats of nuclear terrorism and proliferation that have been exacerbated by the Bush administration's pursuit of a war of choice in Iraq based on false assumptions. Krepon advocates a back to basics approach to reducing nuclear dangers, reversing the Bush administration's denigration of diplomacy, deterrence, containment, and arms control. As he sees it, The United States has stumbled before, but America has also made it through hard times and rebounded. With wisdom, persistence, and luck, another dark passage can be successfully navigated.

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.

The Soviet Biological Weapons Program and Its Legacy in Today's Russia Raymond A. Zilinskas, 2014

American Biodefense Frank L. Smith III, 2014-06-26 Frank L. Smith III addresses the puzzling and largely untold story about why the U.S. military has neglected research, development, acquisition, and doctrine for biodefense.

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