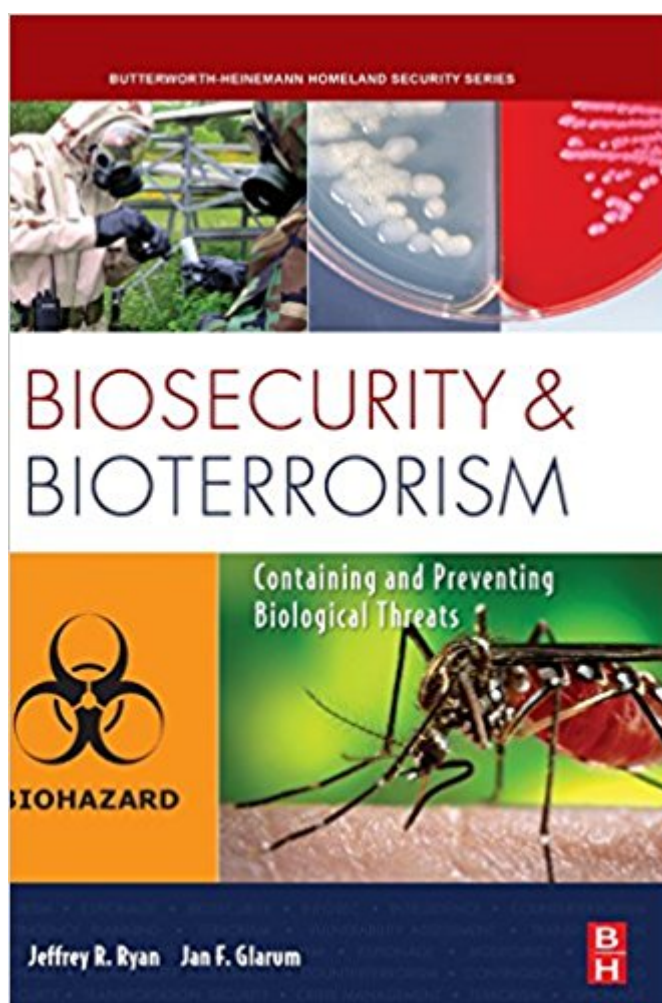


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# Biosecurity And Bioterrorism: Containing And Preventing Biological Threats (Butterworth-Heinemann Homeland Security)



## Synopsis

Biosecurity and Bioterrorism is the first book to take a holistic approach to biosecurity with coverage of pathogens, prevention and response methodology. The book is organized into four thematic sections: Part I provides a conceptual understanding of biowarfare, bioterrorism and the laws we have to counteract this; Part II investigates known bioagents and the threat from emerging diseases; Part III focuses on agricultural terrorism and food security; Part IV outlines international, US, and local initiatives for biodefense and biosecurity. Case studies illustrate biodefense against both intentional terrorism and natural outbreaks. The authors bring an extraordinary combination of experience in academia and the clinical world, as well as real-world experience in technical and practical matters, to their writing. They make technical material clear and fascinating for readers with a basic knowledge of biology. Ryan and Glarum address the hazards in the context of vulnerability assessments and the planning strategies government and industry can take to prepare for and respond to such events. \* How are these agents used in biowarfare? \* How likely are we to face either a natural outbreak or intentional human/animal infection?\* How can we prepare for this effectively?

## Book Information

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## Customer Reviews

"Ryan and Glarum have produced a reference document appropriate for the libraries of emergency planners and managers, public health leadership, as well as state and local elected officials... Used

pedagogically, the book is suitable for graduate-level students in public health, emergency management, public administration, and journalism... The authors bring a balanced mix of scholarship and response experience to the creation of this text."--Bret Atkins, "Review of Biosecurity & Bioterrorism: Containing and Preventing Biological Threats" Journal of Homeland Security and Emergency Management vol.5, 1. 2008. "This work provides a thorough, general reference for all audiences on the major biosecurity concerns of the day. The authors start with the basic science of communicable disease, then move on to the history of biological warfare and bioterrorism, followed by the threat of agroterrorism and current biodefense initiatives. As a review and reference for those potentially affected by bioterrorism issues, or for those interested in expanding their reference material related to bioterrorism issues, this book is both a current and worthwhile addition to a security professional's library."--Security Management

Mr. Ryan is a retired US Army officer and currently a Professor at Jacksonville State University's Department of Emergency Management within the Institute of Emergency Preparedness. The program provides instruction on various aspects of emergency preparedness with a focus on terrorism, Weapons of Mass Destruction, medical aspects of emergency management, public health preparedness, biodefense, and biosecurity. His research interests are biothreat pathogen detection, agro-terrorism and the role of military forces in disaster response and humanitarian assistance. Since 2003, Professor Ryan has also served as Managing Director of Quetzal Consulting, Inc. a private firm specializing in a wide array of consultative services related to biothreat pathogen detection, tropical diseases research, course development, diagnostics development, marketing and product management. Services are provided to the U.S. Department of Defense, Department of Homeland Security, defense contractors (SAIC, GeoCenters and EAI) and biotechnology and diagnostics companies, among others. Jan Glarum has over 35 years of experience in the fields of EMS, Fire, Law Enforcement, Hospital, Public Health, and Emergency Management, including response to federally declared disasters. His experience includes an extensive background in planning, training, education and response at the local, county, regional, state and federal government levels, including Department of Defense initiatives CONUS and OCONUS. In 1999, he became a founding member of Oregon's Disaster Medical Assistance Team (DMAT) and continues his association with the team. He has co-authored a number of books including Biosecurity and Bioterrorism, Hospital Emergency Response Teams, Pandemic Influenza and a Homeland Security Field Guide. Additionally, he has written numerous articles on emergency and disaster planning and response. He serves as a subject matter expert and speaker on

emergency management, disaster planning, and has led hospital emergency response team development for hazardous materials events. He has developed a number of Incident Command System courses for hospital personnel to create operationally competent Incident Management Team members.

I love this book! I study for fun (because I have no life) and this has made me quite knowledgeable on biosecurity. It covers all the major topics and isn't too hard to understand. It's a fantastic read and study guide and I highly recommend it to everyone, especially those in the medical field. Just be sure you have a strong stomach because even though the pictures aren't in color, it still has some pretty nasty stuff.

It was helpful for my biology class

I was very impressed by this text. It is easy to read (without being simplistic), well illustrated, and it covered most of the area. If you are interested in biosecurity, I suggested that you get this book. I am not easily pleased but this is a good book.

It was a college textbook. What more can I say.

As an Emergency Preparedness Planner, I found this book to be valuable. Ryan and Glarum cover not just human diseases, but all potential biological threats and means to mitigate, prepare for, respond to and manage the consequences. Well organized, with content understandable to both the non-medical and medically backgrounded EM professional. Information in previous chapters make the more complex concepts found in later chapters comprehensible. There is a helpful balance of illustrations and sidebars that reinforce the content. The list of references with each chapter will give you deeper background into the subject matter. By considering the critical thinking and discussion questions, key concepts are reinforced. If you have a need for this knowledge, I highly recommend this book.

This book is a must read for anyone interested in the study of biosecurity and bioterrorism. The book is well written and easy to read. Of the many books on this subject I have read, this one covers more areas of knowledge than any. Ryan and Glarum are true experts in the field of biological agents and this book shares that knowledge with the readers.

I just finished reading this text for a class. It is well written, easy to follow and contains a lot of detail. Bioterrorism is a multi-faceted subject and this text covers each aspect of the subject very well. I highly recommend it to anyone with an interest in biosecurity.

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