



## Biodefense Research Methodology and Animal Models, Second Edition

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# Biodefense Research Methodology and Animal Models, Second Edition

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Significant advances have been made in animal model development for biological research since the publication of the first edition of this volume, and the ramifications of the FDA's Animal Efficacy Rule have become better understood in the scientific community. With each chapter completely updated with the latest research findings, **Biodefense Research Methodology and Animal Models, Second Edition** spans the spectrum of coverage from basic research to advanced development of medical countermeasures.

Topics discussed in this volume include:

- A history of biological agents as weapons, from the use of corpses to contaminate water supplies to modern day anthrax attacks
- Concepts and strategies involved in biowarfare and bioterrorism
- The development, validation, and importance of animal models in biodefense research
- Infectious disease aerobiology
- Studies involving anthrax, glanders, plague, tularemia, Q fever, alphaviruses, orthopoxviruses, and a new chapter on brucellosis
- Animal models for viral hemorrhagic fevers
- Botulinum and Ricin toxins
- Staphylococcal and streptococcal superantigens

As the scientific community works diligently to protect the world's population from the misuse of infectious organisms and toxins, it is imperative that researchers stay abreast of the latest techniques for biodefense research. Exploring *in vivo* and *in vitro* assays, this volume brings researchers up to date on the latest information on bacterial and viral infectious agents and biological toxins considered to pose the greatest threats to public safety. In addition, the contributors take a step toward minimizing the use of animals in further experiments by presenting documented findings that can be built upon.



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