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Titolo	Overcoming challenges to develop countermeasures against aerosolized bioterrorism agents : appropriate use of animal models // Committee on Animal Models for Testing Interventions Against Aerosolized Bioterrorism Agents, Board on Life Sciences, Institute for Laboratory Animal Research, Division of Earth and Life Studies
Pubbl/distr/stampa	Washington D.C., : The National Academies Press, c2006
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Descrizione fisica	1 online resource (88 p.)
Disciplina	363.325
Soggetti	Bioterrorism - Research Chemical warfare
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Front Matter""; ""Preface""; ""Contents""; ""Glossary""; ""Summary""; ""1 Introduction""; ""2 Selection or Development of an Animal Model""; ""3 Generation and Characterization of Aerosolized Agents""; ""4 Dosimetry Considerations""; ""5 Experimental Design""; ""6 Resource Issues""; ""References""; ""About the Authors""; ""Appendix A: Public Workshop Agenda, and Biographical Information about the Speakers, ""
Sommario/riassunto	The National Institute of Allergy and Infectious Diseases (NIAID) gives the highest priority to developing countermeasures against bioterrorism agents that are highly infective when dispersed in aerosol form. Developing drugs to prevent or treat illnesses caused by bioterrorism agents requires testing their effectiveness in animals since human clinical trials would be unethical. At the request of NIAID, the National Academies conducted a study to examine how such testing

could be improved. Overcoming Challenges to Develop Countermeasures Against Aerosolized Bioterrorism Agents provides recommendations to researchers on selecting the kinds of animal models, aerosol generators, and bioterrorism agent doses that would produce conditions that most closely mimic the disease process in humans. It also urges researchers to fully document experimental parameters in the literature so that studies can be reproduced and compared. The book recommends that all unclassified data on bioterrorism agent studies--including unclassified, unpublished data from U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID)--be published in the open literature. The book also calls on the U.S. Food and Drug Administration to improve the process by which bioterrorism countermeasures are approved based on the results of animal studies.

2. Record Nr.	UNINA9910972235203321
Autore	Sheffer Marla
Titolo	Development of DRIs 1994-2004 : lessons learned and new challenges : workshop summary / / Marla Sheffer and Christine Lewis Taylor, rapporteurs ; Food and Nutrition Board, Institute of Medicine of the National Academies
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Descrizione fisica	1 online resource (198 p.)
Altri autori (Persone)	TaylorChristine Lewis
Disciplina	363.8
Soggetti	Nutrition - Evaluation Reference values (Medicine) Nutrition - Research - United States Nutrition - Research - Canada Diet - Research
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Nota di contenuto	Front Matter -- Reviewers -- Contents -- Acronyms -- Preface -- 1 Workshop Introduction -- 2 Conceptual Framework for DRI Development: Session 1 -- 3 Criteria for Scientific Decision Making: Session 2 -- 4 General Guidance for Users of DRIs: Session 3 -- 5 Looking to the Future Process for DRI Development: Session 4 -- 6 Summary and Closing Remarks -- References -- Appendixes -- Appendix A: Workshop Agenda and Background Materials -- Appendix B: Workshop Presenters, Discussants, Panelists, and U.S./Canadian Sponsor Representatives -- Appendix C: Brief List of Reoccurring Workshop Discussions -- Appendix D: Schematic Used By Workshop Planning Committee: Activities Associated with DRI Development.
Sommario/riassunto	<p>In what ways can the process for developing Dietary Reference Intakes (DRIs) be enhanced? The workshop entitled "The Development of DRIs 1994-2004: Lessons Learned and New Challenges" offered a valuable window into the issues and challenges inherent in the development of nutrient reference values. The dialogue-carried out under the auspices of the Institute of Medicine (IOM), Food and Nutrition Board (hereafter referred to jointly as the IOM)-was enriched by the 10 years of experience in deriving the expanded set of values known as the DRIs, plus the decades of experience that grounded the earlier Recommended Dietary Allowances for the United States and the Recommended Nutrient Intakes for Canada. The lessons learned and the knowledge gained will guide decisions about the next phase of the DRIs. To paraphrase one participant, we are now asking better questions. In 2006, the IOM, with support from the United States and Canadian governments, undertook an effort to synthesize the research needs identified during the 10 years of DRI development. While the workshop summarized here was predicated on the fact that the development of DRIs is improved by better data, its focus was different. Its goals were to examine the framework and conceptual underpinnings for developing DRIs and to identify issues important for enhancing the process of DRI development. The workshop was designed to use the existing framework for DRI development as a basis for the discussions and to consider the components of the framework in sequence. Consideration of the pros and cons of the current conceptual underpinnings of the framework opened the workshop, followed by the general "road map" for decision making and the needed scientific criteria. Next, the challenges associated with providing guidance for users were explored. The Development of DRIs 1994-2004: Lessons Learned and New Challenges: Workshop Summary explains an array of issues germane to the future process for developing DRIs, including strategies for updating and revising existing DRIs and opportunities for stakeholder input.</p>