



LABORATORY BIOSAFETY MANUAL

Third edition

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World Health Organization, Geneva

Laboratory Biosafety Manual Third Edition Who 2004

Robin Geiß, Nils Melzer



Laboratory Biosafety Manual Third Edition Who 2004:

Laboratory Biosafety Manual World Health Organization, 2004-12-28 This is the third edition of this manual which contains updated practical guidance on biosafety techniques in laboratories at all levels It is organised into nine sections and issues covered include microbiological risk assessment lab design and facilities biosecurity concepts safety equipment contingency planning disinfection and sterilisation the transport of infectious substances biosafety and the safe use of recombinant DNA technology chemical fire and electrical safety aspects safety organisation and training programmes and the safety checklist

WHO Guidelines on Tularemia World Health Organization, 2007-12-15 Tularemia is a bacterial zoonotic disease of the northern hemisphere The bacterium *Francisella tularensis* is highly virulent for humans and a range of animals such as rodents hares and rabbits Humans can infect themselves by direct contact with infected animals by arthropod bites by ingestion of contaminated water or food or by inhalation of infective aerosols There is no human to human transmission In addition to its natural occurrence *F. tularensis* evokes great concern as a potential bioterrorism agent *F. tularensis* subspecies *tularensis* is one of the most infectious pathogens known in human medicine In order to avoid laboratory associated infection safety measures are needed and consequently clinical laboratories do not generally accept specimens for culture However since clinical management of cases depends on early recognition there is an urgent need for diagnostic services This first edition of WHO Guidelines on tularemia provides background information on the disease describes the current best practices for its diagnosis and treatments in humans suggests measures to be taken in case of epidemics and provides guidance on how to handle *F. tularensis* in the laboratory The target audience includes clinicians laboratory personnel public health workers veterinarians and any other person with an interest in zoonoses

WHO Expert Committee on Biological Standardization World Health Organization, 2019-08-13 This report presents the recommendations of a WHO Expert Committee commissioned to coordinate activities leading to the adoption of international recommendations for the production and control of vaccines and other biological substances and the establishment of international biological reference materials Following a brief introduction the report summarizes a number of general issues brought to the attention of the Committee The next part of the report of particular relevance to manufacturers and national regulatory authorities outlines the discussions held on the development and adoption of new and revised WHO Recommendations Guidelines and guidance documents Following these discussions WHO Recommendations to assure the quality safety and efficacy of recombinant hepatitis E vaccines WHO Guidelines for the safe development and production of vaccines to human pandemic influenza viruses and influenza viruses with pandemic potential and WHO Guidelines for the safe production and quality control of poliomyelitis vaccines were adopted on the recommendation of the Committee In addition a WHO questions and answers guidance document on the evaluation of similar biotherapeutic product SBPs was also adopted with the Committee recommending that it be posted on the WHO website Subsequent sections of the report provide information on the current

status proposed development and establishment of international reference materials in the areas of antibiotics blood products and related substances cellular and gene therapies in vitro diagnostics standards for use in public health emergencies and vaccines and related substances A series of annexes are then presented which include an updated list of all WHO Recommendations Guidelines and other documents on biological substances used in medicine Annex 1 The above three WHO documents adopted for publication on the advice of the Committee are then presented as part of this report Annexes 2 4 Finally all additions and discontinuations made during the 2018 meeting to the list of International Standards Reference Reagents and Reference Panels for biological substances maintained by WHO are summarized in Annex 5 The updated full catalogue of WHO International Reference Preparations is available at <http://www.who.int/bloodproducts/catalogue/en>

Biosafety of Genetically Modified Organisms 3 Karen Hokanson, Andrew F. Roberts, Joerg Romeis, Joe Smith, Alan Raybould, 2021-10-14

The Oxford Handbook of the International Law of Global Security Robin Geiß, Nils Melzer, 2021-02-16 Understanding the global security environment and delivering the necessary governance responses is a central challenge of the 21st century On a global scale the central regulatory tool for such responses is public international law But what is the state role and relevance of public international law in today's complex and highly dynamic global security environment Which concepts of security are anchored in international law How is the global security environment shaping international law and how is international law in turn influencing other normative frameworks The Oxford Handbook of the International Law of Global Security provides a ground breaking overview of the relationship between international law and global security It constitutes a comprehensive and systematic mapping of the various sub fields of international law dealing with global security challenges and offers authoritative guidance on key trends and debates around the relationship between public international law and global security governance This Handbook highlights the central role of public international law in an effective global security architecture and in doing so addresses some of the most pressing legal and policy challenges of our time The Handbook features original contributions by leading scholars and practitioners from a wide range of professional and disciplinary backgrounds reflecting the fluidity of the concept of global security and the diversity of scholarship in this area

Parkes' Occupational Lung Disorders, Fourth Edition Anthony Newman Taylor, Paul Cullinan, Paul Blanc, Anthony Pickering, 2016-11-25 This authoritative text on occupational lung disorders builds upon the fundamentals including clinical epidemiological and predictive approaches It discusses interstitial and malignant diseases airways diseases and other respiratory issues such as diving working at high altitudes and abnormal sleep conditions It also covers related long term conditions such as asthma and COPD This edition has been completely revised and brought up to date for all physicians dealing with pulmonary disorders caused by the environment or the workplace

WHO Expert Committee on Specifications for Pharmaceutical Preparations WHO Expert Committee on Specifications for Pharmaceutical Preparations. Meeting, World Health Organization, 2016 The World Health Organization WHO Expert

Committee on Specifications for Pharmaceutical Preparations advises the Director General of WHO in the area of medicines quality assurance. It provides independent expert recommendations and guidance to ensure that medicines meet standards of quality, safety and efficacy in all WHO Member States. Its advice is developed through a broad consensus building process and covers all areas of quality assurance of medicines from their development to their distribution to patients. In the area of quality control, the Expert Committee reviewed new and revised specifications and general texts for inclusion in The International Pharmacopoeia and received the annual report of the European Directorate for the Quality of Medicines. HealthCare EDQM, the custodian centre for International Chemical Reference Substances (ICRS). The Committee adopted a number of monographs, general texts and ICRS. It noted the report on Phase 6 of the External Quality Assurance Assessment Scheme (EQAAS) and on new approaches to ensure sustainability of this scheme through user fees. The Committee further acknowledged the progress of good pharmacopoeial practices (GPhP) and adopted the document on GPhP which was prepared by the consecutive international meetings of world pharmacopoeias. In the various quality assurance related areas, the Expert Committee was presented with a number of new and revised guidelines related to good manufacturing practices (GMP), distribution and trade of pharmaceuticals and regulatory practice. It adopted 10 guidelines as listed below as well as 22 new specifications and general texts for inclusion in The International Pharmacopoeia. The Committee took note of ongoing work to promote collaboration and information exchange through the good regulatory practice project and welcomed the development of a comprehensive set of guidelines for all national regulatory authorities through this project. **WHO**

Expert Committee on Biological Standardization, 2020-05-15. This report presents the recommendations of a WHO Expert Committee commissioned to coordinate activities leading to the adoption of international recommendations for the production and control of vaccines and other biological substances and the establishment of international biological reference materials. Following a brief introduction, the report summarizes a number of general issues brought to the attention of the Committee. The next part of the report, of particular relevance to manufacturers and national regulatory authorities, outlines the discussions held on the development and adoption of new and revised WHO Recommendations, Guidelines and guidance documents. Following these discussions, WHO Guidelines on the quality, safety and efficacy of respiratory syncytial virus vaccines and an Amendment document to the WHO Recommendations to assure the quality, safety and efficacy of poliomyelitis vaccines inactivated were adopted on the recommendation of the Committee. Subsequent sections of the report provide information on the current status, proposed development and establishment of international reference materials in the areas of antibiotics, biotherapeutics, other than blood products, blood products and related substances, cellular and gene therapies, in vitro diagnostics and vaccines and related substances. A series of annexes are then presented which include an updated list of all WHO Recommendations, Guidelines and other documents on biological substances used in medicine. Annex

1 **WHO Expert Committee on Biological Standardization** WHO Expert Committee on Biological Standardization.

Meeting, World Health Organization, 2007-12-15 This report presents the recommendations of a WHO Expert Committee commissioned to coordinate activities leading to the adoption of international recommendations to assure the quality safety and efficacy of vaccines blood products and other biological medicines and the establishment of international biological reference standards for these products and related diagnostic devices The report of particular relevance to manufacturers and national regulatory authorities starts with a discussion of general issues brought to the Committee's attention The second part of the report contains written specifications that establish international regulatory expectations for the following products DNA vaccines pertussis whole cell vaccine plasma human for fractionation rabies vaccine and rotavirus vaccine The report also provides a risk assessment and defines conditions for the safe production of pandemic strain influenza vaccines The third part of the report provides information on the status and development of international reference materials for various antibodies antigens blood products and related substances and in vitro diagnostic devices WHO Expert Committee on Biological Standardization World Health Organization. Expert Committee on Biological Standardization, World Health Organization, 2016 This report presents the recommendations of a WHO Expert Committee commissioned to coordinate activities leading to the adoption of international recommendations for the production and control of vaccines and other biological substances and the establishment of international biological reference materials Following a brief introduction the report summarizes a number of general issues brought to the attention of the Committee The next part of the report of particular relevance to manufacturers and national regulatory authorities outlines the discussions held on the development and adoption of new and revised WHO Recommendations Guidelines and guidance documents Following these discussions a WHO guidance document on Regulatory assessment of approved rDNA derived biotherapeutics was adopted along with WHO Guidelines on the stability evaluation of vaccines for use under extended controlled temperature conditions and on WHO good manufacturing practices for biological products In addition revised WHO Recommendations to assure the quality safety and efficacy of recombinant human papillomavirus virus like particle vaccines were also adopted by the Committee Subsequent sections of the report provide information on the current status and proposed development of international reference materials in the areas of antibiotics biotherapeutics other than blood products blood products and related substances in vitro diagnostic device reagents and vaccines and related substances A series of annexes are then presented which include an updated list of all WHO Recommendations Guidelines and other documents on biological substances used in medicine Annex 1 The above four WHO documents adopted on the advice of the Committee are then published as part of this report Annexes 2-5 Finally all additions and discontinuations made during the 2015 meeting to the list of International Standards Reference Reagents and Reference Panels for biological substances maintained by WHO are summarized in Annex 6 The updated full catalog of WHO International Reference Preparations is available at <http://www.who.int/bloodproducts/catalogue/en> **Aeromicrobiology** Mathew Olusoji Ilori, Oluwafemi Sunday Obayori, Lateef Babatunde

Salam,2023-02-04 Aeromicrobiology provides a detailed and systematic analysis of the microbial communities and toxins collectively called bioaerosols that can be found in air It provides information on the basics of Aeromicrobiology the fate and transport of microorganisms in air and the fundamental differences between intramural and extramural Aeromicrobiology Leaning heavily on the current state of science detailed information on the sampling and analysis of bioaerosol samples is provided Subsequent chapters comprehensively discuss various airborne microbial groups and toxins while the final chapter is dedicated to bioaerosol control strategies biosafety and biosecurity There are limited resources on Aeromicrobiology In rare instances where there are resources on Aeromicrobiology they are often restricted to chapters in books or even supplementary materials The emergence of new airborne pathogens the aerosolization of microorganisms hitherto believed not to be airborne and the proliferation of technologies for sampling analysis and control of bioaerosols makes it imperative for this title which streamlines and succinctly presents the new body of knowledge in the field Leans heavily on current state of the art technologies used in sampling and analysis of bioaerosol samples such as metagenomics and sensor based hybrid technologies among others Dedicates considerable attention to airborne and droplet borne viruses against the background of SARS CoV 2 and related pathogens Comprehensively attends to regulatory aspects of bioaerosol control highlighting various policies and regulations aimed at achieving biosecurity and curbing bioterrorism Helps researchers and policy makers in various fields who are often confronted with the need for basic information delivered in seamless style without loss of essential content

Biosafety and Biosecurity Jonathan Jaime G. Guerrero,Rohani Cena-Navarro,Raul V. Destura,Marian P. De Leon,Kin Israel Notarte,Mark Angelo O. Balendres,2024-07-15 There are many guidelines protocols and advisories that outline how biosafety and biosecurity can be adopted by institutions around the world Whilst helpful many of these are tailored to affluent Western nations This leaves developing nations far behind since their laboratories and institutions are resource scarce and biosafety and biosecurity are not mainstreamed entirely among the different laboratory workers healthcare professionals researchers and academics Biosafety and Biosecurity Practical Insights and Applications for Low and Middle Income Countries aims to bridge this gap by comprehensively summarizing the state and development of biosafety and biosecurity in developing and developed nations in a comparative analysis This book includes basic concepts and principles of biosafety and biosecurity including certification and legal frameworks both international and local and biosafety and biosecurity across disciplines including environmental medical and special topics that are relevant to countries with comparable conditions This proposed book solves the problem of the lack of a prescribed professional title that comprehensively summarizes the state and development of biosafety and biosecurity throughout the world allowing the reader a 360 view of the subject area This book will appeal to a global audience of biorisk officers health and safety professionals and specialists in the life sciences health and allied fields environmental science engineering and plant and animal agriculture

Terrorism and Weapons of Mass Destruction Ian Bellany,2007-12-12 This book critically assesses the

suggestion that strengthening existing international prohibitions against state level acquisition of Weapons of Mass Destruction could safeguard against the possibility of their use by terrorists targeting civilians *Implementing the WHO Stop TB Strategy* World Health Organization, 2008 The purpose of this handbook is to bring together in summarized form the issues recommended strategies and practical measures involved in addressing each of the components of the WHO Stop TB Strategy This handbook has been prepared principally for use by national TB control programme managers and staff as well as partner organizations and professionals involved in implementing TB control activities Readers are provided with a concise account of the essential elements of a comprehensive TB control programme and an overview of the full range of activities that need to be implemented to achieve the TB control targets set for 2015 An adequate strategy for the control of tuberculosis TB globally calls for a comprehensive approach to address all of the main constraints facing TB control including emerging challenges as well as the main risk factors influencing the incidence of TB Consequently the scope of activities undertaken by national TB control programmes has greatly increased Contemporary Developments and Perspectives in International Health Security Stanislaw P. Stawicki, Michael S. Firstenberg, Sagar C. Galwankar, Ricardo Izurieta, Thomas Papadimos, 2021-01-07 International health security IHS is a broad and highly heterogeneous area Within this general context IHS encompasses subdomains that potentially influence and more specifically endanger the well being and wellness of humans The general umbrella of IHS includes but is not limited to natural disasters emerging infectious diseases EID and pandemics rapid urbanization social determinants of health population growth systemic racism and discrimination environmental matters civilian violence and warfare various forms of terrorism misuse of antibiotics and the misuse of social media The need for this expanded definition of health security stems from the realization that topics such as EID food water and pharmaceutical supply chain safety medical and health information cybersecurity and bioterrorism although important within the overall realm of health security are not only able to actively modulate the wellness and health of human populations but also tend to do so in a synergistic fashion This inaugural tome of a multi volume collection *Contemporary Developments and Perspectives in International Health Security* introduces many of the topics directly relevant to modern IHS theory and practice This first volume provides a solid foundation for future installments of this important and relevant book series **Essentials of Laboratory Animal Science: Principles and Practices** P. Nagarajan, Ramachandra Gudde, Ramesh Srinivasan, 2021-07-23 This book comprehensively reviews the anatomy physiology genetics and pathology of laboratory animals as well as the principles and practices of using laboratory animals for biomedical research It covers the design of buildings used for laboratory animals quality control of laboratory animals and toxicology and discusses various animal models used for human diseases It also highlights aspects such as handling and restraint and administration of drugs as well as breeding and feeding of laboratory animals and provides guidelines for developing meaningful experiments using laboratory animals Further the book discusses various alternatives to animal experiments for drug and chemical testing

including their advantages over the current approaches Lastly it examines the potential effect of harmful pathogens on the physiology of laboratory animals and discusses the state of art in in vivo imaging techniques The book is a useful resource for research scientists laboratory animal veterinarians and students of laboratory animal medicine Self-Spreading

Biotechnology and International Law Felix Beck,2022-11-22 Wer haftet wenn sich selbst ausbreitende Gentechnik grenz überschreitende Schäden verursacht Mit Gene Drives und ähnlichen Verfahren wird es bald möglich sein das Erbgut wild lebender Arten Keime und Nutzpflanzen direkt in der Umwelt zu verändern Dies könnte helfen dringende Probleme in der öffentlichen Gesundheit im Naturschutz und in der Ernährungssicherheit zu lösen Allerdings bergen diese Verfahren auch das Risiko einer unkontrollierten Ausbreitung über Staatsgrenzen hinweg Anhand einer grundlegenden Untersuchung der einschlägigen Verträge und des Völkerrechts zu Prävention und Haftung für grenz überschreitende Schäden wird aufgezeigt dass das derzeit geltende Völkerrecht dieser Herausforderung noch nicht gewachsen ist *Biosafety in Microbiological and Biomedical Laboratories* L. Casey Chosewood,2007-08 Biosafety in Microbiological Decontam Lab biosecurity Biosafety Level 3 Ag labs Agent summary state for some ag pathogens all agent summary state efforts were made to harmonize recommend with regs promulgated by other fed agencies

Regulation of Synthetic Biology Alison McLennan,2018-04-27 This book explores the interplay between regulation and emerging technologies in the context of synthetic biology a developing field that promises great benefits and has already yielded fuels and medicines made with designer micro organisms For all its promise however it also poses various risks Investigating the distinctiveness of synthetic biology and the regulatory issues that arise Alison McLennan questions whether synthetic biology can be regulated within existing structures or whether new mechanisms are needed **Medical Aspects of Biological Warfare** Zygmunt F. Dembek,2008-02 NOTE NO FURTHER

DISCOUNT FOR THIS PRINT PRODUCT OVERSTOCK SALE Significantly reduced list price while supplies last Addresses weaponization of biological agents Categorizes potential agents as food waterborne or agricultural toxins and discusses the respective epidemiology

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