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Gnotobiotic Mouse Technology

AN ILLUSTRATED GUIDE



Chriss J. Vowles • Natalie E. Anderson
Kathryn A. Eaton

Gnotobiotic Mouse Technology An Illustrated Guide

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Gnotobiotic Mouse Technology An Illustrated Guide:

Gnotobiotic Mouse Technology Chriss J. Vowles, 2016-01-05 The popularity of germ free animal models particularly mice for investigation of human physiology and disease has recently exploded Gnotobiotic Mouse Technology An Illustrated Guide provides the first manual for the maintenance husbandry and experimental manipulation of germ free and gnotobiotic mice It includes information on all aspects of Gnotobiotic Mouse Technology Chriss J. Vowles, Natalie E. Anderson, Kathryn A. Eaton, 2016-01-05 The popularity of germ free animal models particularly mice for investigation of human physiology and disease has recently exploded Gnotobiotic Mouse Technology An Illustrated Guide provides the first manual for the maintenance husbandry and experimental manipulation of germ free and gnotobiotic mice It includes information on all aspects of **Gnotobiotics** Trenton R Schoeb, Kathryn A Eaton, 2017-08-11 Gnotobiotics summarizes and analyzes the research conducted on the use of gnotobiotics providing detailed information regarding actual facility operation and derivation of gnotobiotic animals In response to the development of new tools for microbiota and microbiome analysis the increasing recognition of the various roles of microbiota in health and disease and the consequent expanding demand for gnotobiotic animals for microbiota microbiome related research this volume collates the research of this expanding field into one definitive resource Reviews and defines gnotobiotic animal species Analyzes microbiota in numerous contexts Presents detailed coverage of the protocols and operation of a gnotobiotic facility **Practical Management of Research Animal Care and Use Programs** Javier Guillén, Viola Galligioni, 2024-11-06 This book provides a complete guide to all the aspects to consider during planning establishing and managing ethically and efficiently research animal care and use programs taking into account all stakeholders involved in the process Practical information on how to address the general and particular needs of all animal care and use program areas is provided Consequently the reader is supported with getting their project ethically and legally compliant and implemented efficiently with organizing safe and appropriate facilities and equipment as well as hiring sufficiently trained personnel Furthermore strategies for impactful internal and external communication are outlined Responsible use of animals in research can be nothing but teamwork The environment and professional experience of all involved stakeholders are the key for ensuring quality science as well as animal and personnel welfare Research animal care and use programs represent a complex system in which animals legislation and good practices facility personnel and researchers interact on a daily basis Thoughtful planning from the first step ensures animal welfare and improves the quality of in vivo experimentation This book addresses animal program managers veterinarians researchers and technicians working in research animal facilities Chapter 18 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com **Animal Models for Microbiome Research** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Roundtable on Science and Welfare in Laboratory Animal Use, 2018-04-23 The surface of the human body and its mucous membranes are heavily

colonized by microorganisms Our understanding of the contributions that complex microbial communities make to health and disease is advancing rapidly Most microbiome research to date has focused on the mouse as a model organism for delineating the mechanisms that shape the assembly and dynamic operations of microbial communities However the mouse is not a perfect surrogate for studying different aspects of the microbiome and how it responds to various environmental and host stimuli and as a result researchers have been conducting microbiome studies in other animals To examine the different animal models researchers employ in microbiome studies and to better understand the strengths and weaknesses of each of these model organisms as they relate to human and nonhuman health and disease the Roundtable on Science and Welfare in Laboratory Animal Use of the National Academies of Sciences Engineering and Medicine convened a workshop in December 2016 The workshop participants explored how to improve the depth and breadth of analysis of microbial communities using various model organisms the challenges of standardization and biological variability that are inherent in gnotobiotic animal based research the predictability and translatability of preclinical studies to humans and strategies for expanding the infrastructure and tools for conducting studies in these types of models This publication summarizes the presentations and discussions from the workshop

Inflammation, Infection, and Microbiome in Cancers Jun Sun, 2021-04-20 This book offers a summary and discussion of the advances of inflammation and infection in various cancers The authors cover the classically known virus infections in cancer novel roles of other pathogens e g bacteria and fungi as well as biomarkers for diagnosis and therapy Further the chapters highlight the progress of immune therapy stem cells and the role of the microbiome in the pathophysiology of cancers Readers will gain insights into complex microbial communities that inhabit most external human surfaces and play a key role in health and disease Perturbations of host microbe interactions often lead to altered host responses that can promote cancer development Thus this book highlights emerging roles of the microbiome in pathogenesis of cancers and outcome of therapy The focus is on mechanistic concepts that underlie the complex relationships between host and microbes Approaches that can inhibit infection suppress chronic inflammation and reverse the dysbiosis are discussed as a means for restoring the balance between host and microbes This comprehensive work will be beneficial to researchers and students interested in infectious diseases microbiome and cancer as well as clinicians and general physiologists

Journal of the American Veterinary Medical Association American Veterinary Medical Association, 2016

The Gut Microbiome in Health and Disease Dirk Haller, 2018-07-27 The book provides an overview on how the gut microbiome contributes to human health The readers will get profound knowledge on the connection between intestinal microbiota and immune defense systems The tools of choice to study the ecology of these highly specialized microorganism communities such as high throughput sequencing and metagenomic mining will be presented In addition the most common diseases associated to the composition of the gut flora are discussed in detail The book will address researchers clinicians and advanced students working in biomedicine microbiology and immunology

American Journal

of Veterinary Research ,2016 Volumes for 1956 include selected papers from the proceedings of the American Veterinary Medical Association Nutrition Abstracts and Reviews ,1978 *A novel gnotobiotic mouse model as a tool to study dietary effects on the microbiota, the host, and their interplay* Catherine Mooser,2018 **A Study of Secondary Disease in Gnotobiotic Mouse Radiation Chimeras** Sister John Miriam Jones,1970

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