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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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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

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