

Sourcebook Of Models For Biomedical Research

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Sourcebook of Models for Biomedical Research | P. Michael ...

Introduction. The collection of systems represented in the Sourcebook of Models for Biomedical Research reflect the diversity and utility of models that are used in biomedicine. That utility is based on the consideration that observations made in particular organisms will provide insight into the workings of other, more complex systems.

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The collection of systems represented in this volume is a unique effort to reflect the diversity and utility of models used in biomedicine. That utility is based on the consideration that observations made in particular organisms will provide insight into the workings of other, more complex systems. This volume is therefore a comprehensive and extensive collection of these important medical parallels.

Animal Models for the Study of Human Disease, Second Edition provides needed information on model sharing, animal alternatives, animal ethics and access to databanks of models, bringing together common descriptions of models for busy researchers across biomedical and biological sciences. Offering easily searchable advantages and disadvantages for each animal model and organized by disease topics, this resource aids researchers in finding the best animal model for research in human disease. Organized by disease orientation for ease of searchability Provides information on locating resources, animal alternatives, and animal ethics Covers a broad range of animal models used in research for human disease Contributed by leading experts across the globe Expanded coverage of diabetes and neurological diseases

This textbook covers all the steps in manufacturing a biomedical product from bench to bedside. It specifically focuses on quality assurance and management and explains the different good practice principles in the various phases of product development as well as how to fulfill them: Good laboratory practice, good manufacturing practice and good clinical practice. It provides readers with the know-how to design biomedical experiments to ensure quality and integrity, to plan and conduct standard preclinical studies and to assure the quality of the final manufactured biomedical products. Importantly, it also addresses ethical concerns and considerations. The book discusses the guidelines and ethical considerations for preclinical and clinical studies, to allow readers to identify safety concerns regarding biomedical products and to improve pre-clinical studies for the development of better products. This textbook is a valuable guide for biomedical students (B.Sc., M.S., and Ph.D. students) in the field of molecular medicine, medical biotechnology, stem cell research and related areas, as well as for professionals such as quality control staff, tissue bankers, policy-makers and health professionals.

Biomechanics of the Female Pelvic Floor, Second Edition, is the first book to specifically focus on this key part of women's health, combining engineering and clinical expertise. This edited collection will help readers understand the risk factors for pelvic floor dysfunction, the mechanisms of childbirth related injury, and how to design intrapartum preventative strategies, optimal repair techniques, and prostheses. The authors have combined their expertise to create a thorough, comprehensive view of female pelvic floor biomechanics in order to help different disciplines discuss, research, and drive solutions to pressing problems. The book includes a common language for the design, conduct, and reporting of research studies in female PFD, and will be of interest to biomechanical and prosthetic tissue engineers and clinicians interested in female pelvic floor dysfunction, including urologists, urogynecologists, maternal fetal medicine specialists, and physical therapists. Contains contributions from leading bioengineers and clinicians, and provides a cohesive multidisciplinary view of the field Covers causes, risk factors, and optimal treatment for pelvic floor biomechanics Combines anatomy, imaging, tissue characteristics, and computational modeling development in relation to pelvic floor biomechanics

Key features: Serves as the detailed, authoritative source of the clinical chemistry of the most commonly used laboratory animals Includes detailed chapters dedicated to descriptions of clinical chemistry-related topics specific to each laboratory species as well as organ/class-specific chapters Presents information regarding evaluation and interpretation of a variety of individual clinical chemistry end points Concludes with detailed chapters dedicated to descriptions of statistical analyses and biomarker development of clinical chemistry-related topics Provides extensive reference lists at the end of each chapter to facilitate further study Extensively updated and expanded since the publication of Walter F. Loeb and Fred W. Quimby's second edition in 1999, the new The Clinical Chemistry of Laboratory Animals, Third Edition continues as the most comprehensive reference on in vivo animal studies. By organizing the book into species- and organ/class-specific chapters, this book provides information to enable a conceptual understanding of clinical chemistry across laboratory species as well as information on evaluation and interpretation of clinical chemistry data relevant to specific organ systems. Now sponsored by the American College of Laboratory Animal Medicine (ACLAM), this well-respected resource includes chapters on multiple laboratory species and provides pertinent information on their unique physiological characteristics, methods for sample collection, and preanalytical sources of variation for the particular species. Basic methodology for common procedures for each species is also discussed. New Chapters in the Third Edition Include: The Laboratory Zebrafish and Other Fishes Evaluation of Cardiovascular and Pulmonary Function and Injury Evaluation of Skeletal Muscle Function and Injury Evaluation of Bone Function and Injury Vitamins Development of Biomarkers Statistical Methods The Clinical Chemistry of Laboratory Animals, Third Edition is intended as a reference for use by veterinary students, clinical veterinarians, veterinary toxicologists, veterinary clinical pathologists, and laboratory animal veterinarians to aid in study design, collection of samples, and interpretation of clinical chemistry data for laboratory species.

The world has recorded losses in terms of human life as well as extensive time spent in experimentation with development of new drugs, elucidation of disease mechanism(s), and therapeutic agent discovery. Ethical and legal issues cojoin in slowing down scientific discoveries in medicine and biology. The past two (2) decades, therefore, have seen tremendous attempts that largely are successful in developing animal models with the characteristics of mimicking, approximating, or expressing transplanted human organs/tissues. These models or rather approaches seem to be fast, cost-effective, and easy to maintain compared to primates. This book is a collection of expert essays on animal models of human diseases of global interest. A visible objective of the book is to provide real-time experimental approach to scientists, clinicians, ethicists, medicolegal/medical jurisprudence workers, immunologists, postgraduate students, and vaccinologists and informative and multidisciplinary approach for the identification of new therapeutic targets and biomarkers using animal models as well as investigating the pathogenesis and therapeutic strategies of human diseases. An increased understanding of the genetic, molecular, and cellular mechanisms responsible for the development of human diseases has laid out the foundation for the development of rational therapies mainly with animal models.

This two-volume work provides an overview on various state of the art experimental and statistical methods, modeling approaches and software tools that are available to generate, integrate and analyze multi-omics datasets in order to detect biomarkers, genetic markers and potential causal genes for improved animal production and health. The book will contain online resources where additional data and programs can be accessed. Some chapters also come with computer programming codes and example datasets to provide readers hands-on (computer) exercises. This first volume presents the basic principles and concepts of systems biology with theoretical foundations including genetic, co-expression and metabolic networks. It will introduce to multi omics components of systems biology from genomics, through transcriptomics, proteomics to metabolomics. In addition it will highlight statistical methods and (bioinformatic) tools available to model and analyse these data sets along with phenotypes in animal production and health. This book is suitable for both students and teachers in animal sciences and veterinary medicine as well as to researchers in this discipline.

In-depth information on natural biomaterials and their applications for translational medicine! Undiluted expertise: edited by world-leading experts with contributions from top-notch international scientists, collating experience and cutting-edge knowledge on natural biomaterials from all over the world A must-have on the shelf in every biomaterials lab: graduate and PhD students beginning their career in biomaterials science and experienced researchers and practitioners alike will turn to this comprehensive reference in their daily work Link to clinical practice: chapters on translational research make readers aware of what needs to be considered when a biomaterial leaves the lab to be routinely used

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