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Using Animal Models in Biomedical Research

A Primer for the Investigator

Using Animal Models In Biomedical Research A Primer For The Investigator

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Using Animal Models In Biomedical Research A Primer For The Investigator:

Using Animal Models In Biomedical Research: A Primer For The Investigator Pierce K H Chow, Robert T H Ng, Bryan E Ogden, 2008-01-02 Animal models play crucial roles in the continuum of experimental activities that make up biomedical research Such in vivo modes are especially important in proof of principle experiments and in establishing the preclinical safety and efficacy data required for progressing to human clinical trials A practical understanding of the choice care and use of animal models is thus expected and required of all biomedical researchers However while both legislations and the practice of laboratory animal science have made great advances in the last decade and have impacted significantly on the use of animal models this corpus of knowledge is not readily available in formats easily digestible to the average biomedical researcher This book fills this gap in knowledge and provides material not easily sourced by the average biomedical researcher such as current information on bioimaging occupational health and biosafety animal protocol design and histological pathological support

Using Animal Models in Biomedical Research, 2008 Animal models play crucial roles in the continuum of experimental activities that make up biomedical research Such in vivo modes are especially important in proof of principle experiments and in establishing the preclinical safety and efficacy data required for progressing to human clinical trials A practical understanding of the choice care and use of animal models is thus expected and required of all biomedical researchers However while both legislations and the practice of laboratory animal science have made great advances in the last decade and have impacted significantly on the use of animal models this corpus of knowledge is not readily available in formats easily digestible to the average biomedical researcher This book fills this gap in knowledge and provides material not easily sourced by the average biomedical researcher such as current information on bioimaging occupational health and biosafety animal protocol design and histological pathological support

Biomechanics of the Female Pelvic Floor Lennox Hoyte, Margot Damaser, 2016-03-01 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

Exploring Topics in Non/Human Coexistence Sarah Tomasello, Erin Jones, Mark Suchyta, Nathan Poirier, 2025-03-11 This book highlights significant contributions to animal studies and animal rights activism regarding the total liberation of all life on Earth for more peaceful non human coexistence Exploring Topics in Non human Coexistence serves as a unifying platform for individuals from diverse backgrounds who share a common goal of achieving total liberation and fostering coexistence between humans and nonhumans beyond the confines of our shared planet The chapters delve into a wide range of subjects including critical analyses of human nonhuman interactions strategies for enhancing liberation efforts and the significance of drawing inspiration from nonhuman entities Several chapters within this book push the field towards innovative pathways by proposing solutions to detrimental practices and organizational frameworks Moreover they underscore the interconnectedness of animal advocacy with other social justice movements thereby fostering collaboration among advocates of various liberation causes Veganism in its broadest sense emerges as a recurring motif that threads together the diverse themes explored in this book facilitating a cohesive approach towards anti oppressive endeavors To amplify the voices of marginalized communities the editors have strategically positioned chapters authored by individuals of color and other underrepresented groups at the forefront of this book granting them prominent roles in sections such as the foreword preface and afterword This arrangement challenges content creators to redefine their understanding of meaningful content creation urging them to prioritize original insights emotionally resonant narratives and incisive critiques over recycled ideas that may saturate discourse and stifle diverse perspectives Readers are encouraged to actively engage in alleviating nonhuman suffering while respecting the autonomy of nonhuman entities to flourish equipping themselves with the skills necessary to discern between the two This call to action underscores the imperative of fostering empathy and understanding in our interactions with the nonhuman world paving the way for a more compassionate and inclusive future

The Laboratory Rat Patrick Sharp, Jason S. Villano, 2012-12-11 Rats have long been recognized as a valuable biomedical research model notably in the investigation of aging toxicology addiction and common human diseases such as diabetes and hypertension In many instances individuals conducting such research studies are charged with important responsibilities including animal facility management animal h

Mesenchymal Stem Cells and Skeletal Regeneration Peter Giannoudis, Elena Jones, Xuebin Yang, Dennis McGonagle, 2013-02-20 Mesenchymal Stem Cells and Skeletal Regeneration covers our current understanding of the role of mesenchymal stem cells MSCs and other mesenchymal progenitors in skeletal regeneration encompassing bone cartilage and whole joint regeneration The expansion reflects developments in the field to include data on the use of MSCs in drug development growth factors scaffolds and biomechanical manipulations for skeletal trauma and diseases including osteoporosis and arthritis Written for an audience of clinicians and young researchers who are exposed to MSCs in their work this work summarizes recent findings pertaining to the definition and characterization of MSCs in skeletal tissues and discusses the mechanisms of their actions in regeneration of bone in vivo

The authors describe recent findings pertaining to the efficacy of MSC therapies in animal models and in human clinical trials and bring together literature showing that the ways MSCs are extracted expanded and implanted can considerably affect bone formation outcomes Finally it presents the latest knowledge on the nature of native MSCs in skeletal tissues which provide a platform for novel in situ tissue regeneration approaches for systemic bone disease such as osteoporosis Focuses specifically on the use of stem cells in skeletal tissue generation for a broad audience of stem cell cancer and bone biologists orthopedists oncologists and regenerative medicine specialists Provides a short historical detour and foundational information on founding concepts discoveries and personalities in MSC research Assists a new generation of scientists and clinicians in digesting the multitude of journal articles on the topic by providing easily absorbed and condensed foundational context

Drugs and a Methodological Compendium Vikrant Singh Rajput,Ashish Runthala,2023-09-23 This book provides a meticulous view on methodological drug discovery and development insights from bench to bedside The current book threads almost each step encompassing drug the discovery and development of a molecule The chapters focus on computational modus operandi pharmacological optimization approaches modern high throughput screening methods and in vitro procedures role of structural biologists in drug discovery and development medicinal chemistry approaches for drug design formulation and drug delivery in vivo evaluations of candidate molecules clinical trial procedures and others The book also covers specific case studies regulatory approval proceedings and industrial view point alongside the aforementioned conceptual layout And at the same time the volume integrates medical biological medicinal pharmacological and computational streams and it is suggested as an ideal guideline to a wide audience including molecular biologists biochemist pharmacologists medicinal chemist toxicologists drug discovery and development researchers and all other students interested in these disciplines

Monthly Catalogue, United States Public Documents ,1993 **Monthly Catalog of United States Government Publications** ,1993 *Essentials for Animal Research* B. Taylor Bennett,1996-12 Includes a basic understanding of the regulatory process an understanding of the basic principles of controlling pain alternative methodologies animal care principles of anesthesia analgesia perioperative care euthanasia organizations associations references

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