

- Human size – particularly miniature pigs
- Physiology similar to humans
- Large litter sizes
- Cloning and transgenic technology well-advanced
- Numerous well defined cell lines
- Similar disease progression
 - metabolic , e.g. obesity and heart disease
 - infectious diseases – numerous organisms cause infections across species
- Ability to deliberately time studies and collect repeated and, at kill, detailed tissue samples
- High sequence and chromosome structure homology with humans
- Improving genomic and proteomic tools

Swine In Biomedical Research

Mike Tumbleson



Swine In Biomedical Research:

Advances in Swine in Biomedical Research L.B. Schook, M.E. Tumbleson, 2013-03-07 Similarities in structure and function between pigs and human beings include size feeding patterns digestive physiology dietary habits kidney structure and function pulmonary vascular bed structure coronary artery distribution propensity to obesity respiratory rates tidal volumes and social behaviors Since the pig is an omnivore it provides an adaptable model to evaluate chronic and acute exposures to xenobiotics such as alcohol caffeine tobacco food additives and environmental pollutants Swine have been used successfully as models to evaluate alcoholism diabetes absorption digestion total parenteral nutrition organ transplantation atherosclerosis exercise hypertension hemorrhagic hypotension melanoma gingivitis obstructive and reflux nephropathy osteochondrosis dermal healing and septic shock A severe and worsening shortage of organs and tissues for transplantation in patients with severe organ failure has encouraged the consideration of inter species or xenotransplantation In developing programs toward this end the pig generally is viewed as the preferred donor because of its size physiology and availability The pig harbors relatively few diseases which could be transmitted inadvertently to human patients The ability to genetically modify swine to ameliorate the consequences of the human immune response offers a further significant advantage Another important consideration for an animal model is that basic biologic background information be available for investigators to design future prospective studies

Animal Models in Biomedical Research Cynthia Petrie Smith, 1991

Swine in Biomedical Research Mike E. Tumbleson, 1986

Swine in Biomedical Research Mike Tumbleson, 1995

Swine in the Laboratory M. Michael Swindle, 2007-03-22 To diminish the learning curve associated with using swine as models Swine in the Laboratory Surgery Anesthesia Imaging and Experimental Techniques Second Edition provides practical technical information for the use of swine in biomedical research The book focuses on models produced by surgical and other invasive procedures supplying the background

Advances in Swine in Biomedical Research L.B. Schook, M.E. Tumbleson, 1997-01-31 Contains papers from the October 1995 symposium in sections on general aspects transgenics and immunology and infectious diseases Topics include ultrastructure of the liver in piglets fed dietary oils artificial surfactant as a vehicle for endotracheal epinephrine in pediatric porcine cardiopulmonary arrest transplantation and genetic manipulation in porcine systems assessment of public health aspects of porcine xenotransplantation cellular immune responses controlling infectious diseases and associations between stress susceptibility and immune status in pigs Annotation copyrighted by Book News Inc Portland OR

Animal Models in Biomedical Research Cynthia Petrie Smith, 1991

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Animal Models in Biomedical Research Cynthia P. Smith, 1994-07-01 Swine have been utilized as a biomedical research model in a wide variety of disciplines the most notable being cardiovascular research The pig has been used as a model for diabetes alcoholism peptic ulcers and even transplant studies This bibliography is a sampling of the current literature and contains 556 bibliographic

citations of articles and books obtained from a variety of scientific and agricultural sources dating from January 1980 to September 1990 Arranged by subject Author index **Swine in Biomedical Research** Mike E. Tumbleson,1986

Symposium on Swine in Biomedical Research R. O. McClellan,U.S. Atomic Energy Commission,Pacific Northwest Laboratory,1965 **Swine in Biomedical Research** Leo K. Bustad,1966 Laboratory research sus **Swine in**

Biomedical Research ,1965 **The Laboratory Pig** Kirsten Rosenmay Jacobsen,Aage K Olsen Alstrup,Axel K.

Hansen,Peter Bollen,2025-01-31 Since the popular second edition of The Laboratory Swine was published more than a decade ago the number of pigs used in toxicity studies has increased as an alternative to commonly used non rodent species while at the same time large developments have been made in welfare concepts of laboratory animals Pigs have gained prominence in both basic and applied research leading to a significant increase in publication activity This third edition summarizes these new insights raising the bar for humane care and use of pigs from agricultural sources to genetically and microbiological defined minipigs Aimed at animal caretakers technicians laboratory animal veterinarians and investigators planning and performing studies on pigs it provides an overview with extensive references for further study The book has been updated with a special focus on refined methods for housing and handling pigs including an updated description of commonly performed experimental and surgical procedures Continuing its legacy as the premier reference on the care and use of pigs in the laboratory the small practical and accessible format makes this an easy go to book with easy to find information and high quality color images The third edition aims to contribute to humane use and care for laboratory pigs in all aspects of housing husbandry veterinary care and experimental techniques *Swine in Biomedical Research;*

Proceedings of a Symposium ... (Program and Abstracts. Symposium Committee Leo K. Bustad (Ed),Pacific Northwest Laboratory,U.S. Atomic Energy Commission,1965 **A Selected List of References on the Use of Swine in Biomedical**

Research Myron Eugene Tumbleson,1971 **The Clinical Chemistry of Laboratory Animals** David M. Kurtz,Gregory S. Travlos,2017-10-18 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

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Swine as Models in Biomedical Research M. Michael Swindle, Donald C. Moody, Lucy D. Phillips, 1992 Swine as Models in Biomedical Research is based on the proceedings of the Seventh Charles River International Symposium which called upon recognised experts in the use of swine as animal models in various biomedical fields to present overview talks in their areas of interest They provide thorough coverage of the use of swine as animal models including immunology organ transplantation neonatology renal failure hypertension anaesthesiology cardiopulmonary bypass cardiovascular pharmacology atherosclerosis interventional radiology myocardial infarction congenital heart disease shock and wound healing Their writing also reflects the increased interest by biomedical researchers in the use of miniature pigs and micropigs instead of commercial farm breeds in the laboratory Of value both to established investigators familiar with swine as well as to junior investigators who are starting their careers or who are unfamiliar with the species this book will be useful to laboratory researchers as well as to veterinarians and technical personnel involved with service functions related to research projects using swine

Encyclopedia of Animal Science - (Two-Volume Set) Wilson G. Pond, Duane E. Ullrey, Charlotte Kirk Baer, 2018-10-08 PRINT ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT reference.taylorandfrancis.com Containing case studies that complement material presented in the text the vast range of this definitive Encyclopedia encompasses animal physiology animal growth and development animal behavior animal reproduction and breeding alternative approaches to animal maintenance meat science and muscle biology farmed animal welfare and bioethics and food safety With contributions from top researchers in their discipline the book addresses new research and advancements in this burgeoning field and provides quick and reader friendly descriptions of technologies critical to professionals in animal and food science food production and processing livestock management and nutrition

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include and refer to both debtors in a case filed

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