

Animal Models In Orthopaedic Research

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Animal Models In Orthopaedic Research

Animal Models in Orthopaedic Research is a reference book of the major animal models used in the study of orthopaedic conditions and in the in vivo study of biomaterials. Use of animal models provides important knowledge about pathological conditions that can eventually lead to the development of more effective clinical treatment of diseases in both humans and animals.

Animal Models in Orthopaedic Research: 9780849321153 ...

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Animal Models in Orthopaedic Research | Taylor & Francis Group

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Animal Models in Orthopaedic Research - 1st Edition ...

Monkeys and other nonhuman primates provide the closest approximation of the human flexor tendon system in an animal model. Models to study the extensor tendons have been described in all of the major animal models used to investigate flexor tendons.

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Animal Models in Orthopaedic Research - Norecopa

This study presents the newest knowledge about the musculoskeletal tissue healing which were investigated by animal studies and recently published in the major Orthopaedic journals. These studies demonstrate some modifications in methodology of animal models and a multidisciplinary approach to understanding the mechanisms underlying tissue healing and regeneration.

Updated Animal Models in Orthopaedic Research | SpringerLink

INTRODUCTION Extrapolating the results obtained from animal models of human orthopaedic disease is often problematic. Historically, researchers have relied on data obtained from mechanical testing,...

ANIMAL MODELS OF ORTHOPAEDIC DISEASE | John R Field | 3 ...

A large number of animal species are used for our orthopaedic models, including rats, rabbits, dogs, sheep, mini-pigs, and goats.

Translational Animal Models in Orthopaedic Research ...

Sheep are a convenient large-animal model for biomedical research because of availability, ease of handling and housing, animal cost, and acceptance to society as a research animal (2).

(PDF) The sheep as an animal model in orthopaedic research

animal models are essential for evaluating biocompatibility, tissue response and mechanical function of an orthopaedic or dental material prior to clinical use in the human. Animal models allow the evaluation of materials in loaded or unloaded situations over potentially long time durations and in different tissue qualities (e.g. normal

ANIMAL MODELS FOR IMPLANT BIOMATERIAL RESEARCH IN BONE: A ...

There is clinical evidence that patient-specific comorbidities like osteoporosis, concomitant tissue injury, and ischemia may strongly interfere with bone regeneration. However, underlying mechanisms are still unclear. To study these mechanisms in detail, appropriate animal models are needed. For decades, bone healing has been studied in large animals, including dogs, rabbits, pigs, or sheep.

Review of Animal Models of Comorbidities in Fracture ...

Over the last two decades, the mouse became the most frequently used animal model in biomedical research due to easy handling, low husbandry costs, a short reproductive cycle, availability of transgenic mice and of specific analytic tools, including monoclonal antibodies against a broad variety of antigens to target individual molecules in vivo. 1 In addition, the mouse genome contains a very high number of orthologs and homologs to human genes, making the mouse a valuable model organism for ...

Review of Animal Models of Comorbidities in Fracture ...

Orthopaedic researchers should begin again to articulate appropriate selection criteria for animal models, clearly focusing on how to most effectively translate basic research elements, e.g., in vitro experiments, cadaveric materials, computer models etc., into appropriate animal models that most reliably translate to both human and animal benefit [20].

Refining animal models in fracture research: seeking ...

Get this from a library! Animal models in orthopaedic research. [Yuehuei H An; Richard J Friedman;] -- A reference work of the major animal models used in the study of orthopaedic conditions and in the in vivo study of biomaterials. It is intended to serve as a basis for a literature search before ...

Animal models in orthopaedic research (eBook, 1999 ...

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Animal Models in Orthopaedic Research : Yuehuei H. An ...

Review of Animal Models of Comorbidities in Fracture-Healing Research. Haffner-Luntzer M(1), Hankenson KD(2), Ignatius A(1), Pfeifer R(3), Khader BA(2), Hildebrand F(4), van Griensven M(5), Pape HC(3), Lehmicke M(6). Author information: (1)Institute of Orthopaedic Research and Biomechanics, University Medical Center Ulm, Ulm, Germany.

Review of Animal Models of Comorbidities in Fracture ...

Large animal models play a crucial role in orthopaedic sports surgery, as they are critical for the exploration of new experimental strategies and the clinical translation of novel techniques (Espregueira-Mendes & Karahan 2014).

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