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Experimental Research Methods in Orthopedics and Trauma

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Condition: New. Publisher/Verlag: Thieme, Stuttgart | From bioinformatics to nanotechnology, advances in basic research ultimately drive advances in clinical care. This book provides a comprehensive summary of all current research methodologies for translational and pre-clinical studies in biomechanics and orthopedic trauma surgery. With this "roadmap" at hand, specialists and trainees will have the tools to conduct high-quality experimental research in any area of musculoskeletal science, with a solid understanding of how the findings can be applied in patient care. Special Features: Utilizes the principles and methodology of modern, evidence-based medicine in pre-clinical musculoskeletal research Offers a comprehensive analysis of in vivo models for studying different components of the musculoskeletal system Demonstrates how principles of structural, functional, and numerical biomechanics can be utilized in well-defined experimental research studies - spanning topics from fracture fixation to gait analysis to bone remodeling Covers the role of new macroscopic CT and ultrasound imaging techniques for assessing bone and cartilage function Explores cutting-edge developments in cell culture research, molecular testing, and tissue engineering Provides practical advice, a glossary of key terminology, and hundreds of illustrations to familiarize clinicians with every aspect of designing and interpreting an effective research study With 54 state-of-the-art chapters by orthopedic surgeons, musculoskeletal physicians, biologists, engineers, physicists, and mathematicians,...



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