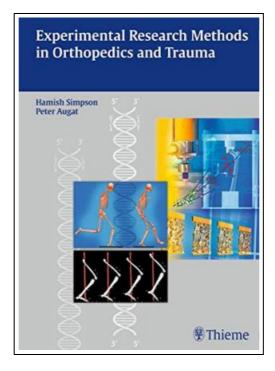
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(Adrien Robel)

EXPERIMENTAL RESEARCH METHODS IN ORTHOPEDICS AND TRAUMA



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 researchOffers a comprehensive analysis of in vivo models for studying different components of the musculoskeletal systemDemonstrates 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 remodelingCovers the role of new macroscopic CT and ultrasound imaging techniques for assessing bone and cartilage functionExplores cutting-edge developments in cell culture research, molecular testing, and tissue engineeringProvides practical advice, a glossary of key terminology, and hundreds of illustrations to familiarize clinicians with every aspect of designing and interpreting an effective research studyWith 54 state-of-the-art chapters by orthopedic surgeons, musculoskeletal physicians, biologists, engineers, physicists, and mathematicians, Experimental Research Methods in Orthopedics and Trauma is the authoritative reference on the topic. It is essential for clinicians, basic researchers, and orthopedic surgical trainees who need to understand experimental research methodology, apply its findings, and participate fully in research activities. | Format: Paperback | Language/Sprache: english | 1251 gr | 270x195x22 mm | 464 pp.



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