

**FRIDAY | February 10**

RIG: MSK Infection

Orthopaedic Implants Section Workshop: Temporal Implants in Orthopaedics: Current Concepts, Limitations and Future Directions

ORS ISFR Section Meeting

Spine Section Scientific Symposium

ORS 2023 Annual Meeting Kickoff

**SATURDAY | February 11**

Biomaterials 4: Bone and Soft Tissue Regeneration

Bone - Mechanobiology

Knee Arthroplasty

Cartilage and Synovium: Omics-based Insights into Synovial Joint Biology

Clinical Research Methods I

Knee - Growth, Development and ACL Injury

ORS 2023 Opening Session - Keynote Speaker, Letitia Bradford, MD

Spotlight: Infection featuring Edward, Schwarz, PhD

Bone - Biology

Intervertebral Disc: Development, Injury, Disease and Treatment

Hip Arthroplasty

Modulators of Inflammation in Knee PTOA

Meniscus - Development and Repair throughout Lifespan

Orthopaedic Implants Section Meeting

Strategies in Clinical Research Section Meeting

Guest Nation Workshop: Skeletal Mechanobiology: From Fundamentals to Therapeutic Opportunities

Current Trends in the Treatment of Tendinopathies

Sex Dimorphism and Cartilage

The Need for Standardized Assessment of Skeletal Muscle Quality, Functional Deficit, and Fatiguability

Spotlight - Corrosion, Toxicity, and Inflammation in Arthroplasty featuring William Mihalko, MD, PhD

Spine - Pathophysiology and Mechanisms

NIRA - Mechanisms, Treatment and Therapies

Pre-Operative and Operative Considerations in Shoulder

Knee Mechanics and Computational Modeling

Biomaterials - Cartilage Repair and Regeneration

Tendon and Ligament - ACL Injury and Reconstruction

Spotlight - Mechanical and Biological Evaluation of Spine Function featuring Grace O'Connell, PhD

A Focus on Translational Research

Biomechanics and Outcomes of Shoulder Arthroplasty

Cartilage and Synovium - Joint Tissue Morphogenesis

Foot and Ankle - Kinematics and Imaging

**SUNDAY | February 12**

Cartilage and Synovium - Advances in Osteoarthritis Treatment

Bone - Injury and Healing

NIRA - Bone and Microbiome

Spotlight - Tendon Injury and Therapeutics featuring Karin Silbernagel, PT, ATC, PhD

Clinical Research - Clinical Outcomes and Use

Muscle Response to an Injury and Repair

Career and Scientific Achievement Awards and Presidential Address

Guest Clinical Society, AOSSM: Unmet Clinical Needs in Sports Medicine: Brainstorming Ideas to Address Clinical Shortcomings

Preclinical Models Section Meeting

Tendon Section Meeting

Meniscus Section Meeting

Temporal Implants in Orthopaedics: Current Concepts, Limitations, and Future Directions

New Biomaterials and Technologies in Spine Surgery

Spotlight - Multi-Tissue Crosstalk featuring Rachel Miller, PhD

Spotlight - Bone Cell Heterogeneity featuring Ling Qin, PhD

NIRA - Clinical Outcomes and Muscle
Challenges in Musculoskeletal Research and Education
Biomaterials - Soft Tissue Regeneration
Resident and Fellow Research
AAOS Kappa Delta and OREF Award Paper Presentations
<b>MONDAY   February 13</b>
Bone - Treatment and Therapeutics
Hip Modeling and Imaging Analysis
NIRA - Biomechanics
Cartilage and Synovium - Chondrocyte Metabolism and Osteoarthritis
Spotlight - Disc Cell Metabolism and Homeostasis featuring Lisbet Haglund, PhD
Biomaterials - Osseointegration and Bone Healing
ORS Collaborations Session
Clinical Research - Omics/Biomarkers
Spotlight = Bone Mechanoregulation featuring David Hoey, PhD
NIRA - Biomaterials
Basic Science Imaging
Hip - Injury and Functional Analysis
Foot and Ankle - Surgical and Non-Surgical Interventions
Cell, Tissue, and Systemic Crosstalk in Joint Disease
The Role of The Immune System in Tendon Disease
The Utility of Quantitative MRI in ACL Surgery Postoperative Management
Advanced Techniques to Image Musculoskeletal Tissue and its Microenvironment via Multiphoton Microscopy
Implementing the 3R Principles in Fracture Healing Research: in vitro, in silico and Refined in vivo Models
Leveraging Multidisciplinary Expertise to Identify Patients at Risk for OA after Meniscal Surgery
Spotlight - Tendon Development, Differentiation and Healing featuring Alice Huang, PhD
Spotlight - Drug Delivery to Joints featuring Ambika Bajpayee, PhD
Clinical Outcomes in Hip and Knee Arthroplasty
Hand and Wrist - Biomechanics
Translational and Clinical Imaging
Orthopaedic Infection and Management
Ankle Osteoarthritis - Toward New Understanding and Opportunities for Intervention
<b>TUESDAY   February 14</b>
Cartilage and Synovium - Mechanotransduction
Clinical Research Methods II
Spotlight - Tendon and Ligament Mechanobiology featuring Michael Kjaer, PhD
Tumors - Genetics, Primary and Metastatic
Computational Modeling in Arthroplasty
Spine - Therapies and Diagnostics
ORS Incoming Presidential Address & Debate: Orthopaedic Research Needs More Discovery v Hypothesis Driven Science
Biomaterials - Disc and Osteoarthritis
Knee - Imaging, Traumatic Joint Injury and OA Assessment
Late Breaking Session
Bone - Diseases and Disorders
Biology of Shoulder Injury and Regeneration
Robotics and Technology in Arthroplasty
ORS Closing Session (NIRA and Section Awards)