

FRIDAY February 4			Room
7:30 AM	5:00 PM	Art of Grant Writing Part II	Room 22-23
1:00 PM	6:00 PM	Orthopaedic Implants: Computational Modeling to Support Implant Design and Evaluation and Clinical Decision Making - Practical Considerations on Model Credibility	Room 11-13
1:00 PM	4:00 PM	Preclinical Models: Bench to Bedside: How Appropriate Preclinical Models are Imperative to Translation	Room 15-17
2:00 PM	6:00 PM	Poster Session I Set Up	Exhibit & Poster Hall West and Central
2:00 PM	6:00 PM	Speaker Ready Room Open	Room 3
2:00 PM	6:00 PM	Registration Open	West Hall Registration
3:00 PM	7:00 PM	International Section of Fracture Repair Scientific Meeting	Room 20-21
6:15 PM	7:30 PM	ORS Annual Meeting Kickoff	Room 15-17
SATURDAY February 5			Room
6:45 AM	5:30 PM	Registration Open	West Hall Registration
7:00 AM	8:00 AM	Poster Session I Set Up	Exhibit and Poster Hall West and Central
7:30 AM	5:30 PM	Speaker Ready Room Open	Room 3
8:00 AM	9:00 AM	Spotlight: Tissue Regeneration - Biomaterials and Bioprinting (Spotlight Speaker Daniel Kelly)	Ballroom A and B
8:00 AM	9:00 AM	Spotlight: Bone Adaptation (Spotlight Speaker Mariana Kersh)	Ballroom C
8:00 AM	9:00 AM	Hip and Knee Arthroplasty - Robotics and AI	Ballroom D
8:00 AM	9:00 AM	Spine Deformity	Room 18-19
8:00 AM	9:00 AM	Clinical Research - Big Data	Room 24-25
9:15 AM	10:15 AM	ORS 2022 Opening Session & ORS Presidential Address with Keynote Speaker Lindsey A. Criswell, MD, MPH, DSc	Ballroom A and B
10:00 AM	7:00 PM	Exhibit Hall Open	Exhibit and Poster Hall West and Central
10:15 AM	11:15 AM	Poster Session I (EVEN Numbered Posters)	Exhibit and Poster Hall West and Central
10:45 AM	12:00 PM	Wearable Technologies and Smart Implants: Perspectives on the "Smart" Path to Market	postponed
11:15 AM	12:15 PM	Spotlight: Stem Cells for Cartilage Repair: Are we there yet? (Spotlight Speaker Brian Johnstone)	Ballroom A and B
11:15 AM	12:15 PM	NIRA - Biomaterials and Therapeutics	Ballroom C
11:15 AM	12:15 PM	Intervertebral Disc - Pathophysiology and Biomechanics	Ballroom D
11:15 AM	12:15 PM	Immune Regulation in Tendon Disease and Healing	Room 18-19
11:15 AM	12:15 PM	Shoulder Mechanics and Morphology	Room 24-25
12:15 PM	3:00 PM	Strategies in Clinical Research Section Scientific Meeting	postponed
12:15 PM	3:00 PM	Spine Section Scientific Meeting	Room 15-17
12:15 PM	3:00 PM	Meniscus Section Scientific Meeting	Room 20-21
1:30 PM	3:00 PM	Workshop: Interfaces in Orthopaedics Research (Guest Nation)	Ballroom A and B
1:30 PM	3:00 PM	Symposium: Temporal Implants in Orthopaedics: Current Concepts, Limitations, and Future Directions-	postponed
1:30 PM	3:00 PM	Workshop: Human Cell-derived Microphysiological Systems: An Emerging Model for Orthopaedic Research	Room 24-25
3:15 PM	4:15 PM	Spotlight: Bone Precision Medicine (Spotlight Speaker Todd McKinley)	Ballroom A and B
3:15 PM	4:15 PM	NIRA - Cartilage Development and Osteoarthritis	Ballroom C
3:15 PM	4:15 PM	Knee Biomechanics	Ballroom D
3:15 PM	4:15 PM	Meet the Funding Agency Program Officers	Room 11-13
3:15 PM	4:15 PM	Hip Dysplasia	Room 18-19
3:15 PM	4:15 PM	Clinical Research - Methodology and Analysis	Room 24-25
3:30 PM	5:30 PM	RIG: Spine Degeneration and Pain	canceled
3:30 PM	5:00 PM	Strategies for Negotiating Across the Career Spectrum	Room 20-21
4:30 PM	5:30 PM	Bone Growth, Development and Aging	Ballroom A and B
4:30 PM	5:30 PM	NIRA - Disc, Shoulder and Tendon	Ballroom C
4:30 PM	5:30 PM	Biomaterial - Cartilage Repair and Regeneration	Ballroom D
4:30 PM	6:00 PM	RIG: mRNA Therapeutics and Tissue Regeneration	Room 11-13
4:30 PM	5:30 PM	Hip and Knee Arthroplasty - Kinetics and Modeling	Room 18-19
4:30 PM	5:30 PM	Imaging - Basic and Translational Science	Room 24-25
5:30 PM	7:00 PM	Future Faculty Poster Session	Exhibit and Poster Hall West and Central
5:30 PM	7:00 PM	Poster Session I Reception	Exhibit and Poster Hall West and Central
5:45 PM	6:15 PM	Exhibit Spotlight Session: Biomomentum	Exhibit and Poster Hall West and Central
7:00 PM	9:00 PM	ORS Research Sections Networking Event	Offsite: American Social
7:00 PM	9:00 PM	RIG: ORS Foot & Ankle	Room 11-13
SUNDAY February 6			Room
7:15 AM	6:00 PM	Registration Open	West Hall Registration
7:30 AM	6:00 PM	Speaker Ready Room Open	Room 3
8:00 AM	9:00 AM	Spotlight: New Metabolic Avenues for Disease-Modifying and Pain Drugs in Osteoarthritis (Speaker Mark Wilkinson)	Ballroom A and B
8:00 AM	9:00 AM	Spotlight: Intervertebral Disc Imaging (Spotlight Speaker Simon Tang)	Ballroom C
8:00 AM	9:00 AM	Biomaterials - Soft Tissue Repair and Regeneration	Ballroom D
8:00 AM	9:00 AM	Unmet Clinical Needs: Brainstorming Ideas to Address Clinical Shortcomings in Trauma	Room 15-17
8:00 AM	9:00 AM	Foot and Ankle - Kinematic and Kinetics	Room 18-19
8:00 AM	9:00 AM	Education and Outreach in Orthopaedics	Room 24 and 25
9:15 AM	10:15 AM	Career and Scientific Achievement Awards	Ballroom A and B
10:00 AM	4:00 PM	Exhibit Hall Open	Exhibit and Poster Hall West and Central Hall
10:15 AM	11:15 AM	Poster Session I (ODD Numbered Posters)	Exhibit and Poster Hall West and Central Hall
10:30 AM	12:00 PM	JOR/JOR Spine Workshop: Publicizing Your Research: Post-publication Strategies for Dissemination of Research	Room 20-21

10:45 AM	11:45 PM	Understanding Clinically Meaningful Benefit vs. Statistical Significance in Outcomes	Room 11-13
11:15 AM	12:15 PM	Spotlight - Meniscus Degradation and Repair (Spotlight Speaker Amy McNulty)	Ballroom A and B
11:15 AM	12:15 PM	NIRA - Biology and Inflammation	Ballroom C
11:15 AM	12:15 PM	Cartilage and Synovium - Post-traumatic Osteoarthritis: Lessons from Murine Models	Ballroom D
11:15 AM	12:15 PM	Tendon and Ligament - Development and Homeostasis	Room 18-19
11:15 AM	12:15 PM	New Approaches and Insights into the Treatment of Musculoskeletal Tumors	Room 24 and 25
12:15 PM	3:00 PM	Preclinical Models Section Scientific Meeting	Room 11-13
12:15 PM	3:00 PM	Orthopaedic Implants Section Scientific Meeting	Room 15-17
12:15 PM	3:00 PM	Tendon Section Scientific Meeting	Room 20-21
1:30 PM	3:00 PM	Workshop: Unraveling Role of Cell Metabolism and Senescence in Intervertebral Disc Health and Disease	Ballroom C
1:30 PM	3:00 PM	Workshop: Single cell transcriptomics approaches to analyze musculoskeletal tissues	Ballroom D
1:30 PM	3:00 PM	Crosstalk Workshop: Advancing Orthopaedic Science Globally through Digital Learning	Room 18-19
1:30 PM	3:00 PM	Workshop: Antidepressants for Osteoarthritis?	Room 24 and 25
3:00 PM	4:00 PM	Poster Session I (Open Viewing)	Exhibit and Poster Hall West and Central Hall
3:30 PM	4:30 PM	On the Way to Your Success - Let's Talk Quality	Room 11-13
3:30 PM	5:00 PM	RIG: ORS Computational Modeling	Room 15-17
3:30 PM	5:00 PM	RIG: Bridging Disciplines to Find Solutions for Osteoarthritis	Room 20-21
4:00 PM	5:00 PM	Spotlight: Randomized Trials to Inform Clinical Practice in Orthopaedics (Spotlight Speaker Michelle Ghert)	Ballroom A and B
4:00 PM	5:00 PM	NIRA Muscle and Joint Mechanics	Ballroom C
4:00 PM	5:00 PM	Bone - Injury and Healing	Ballroom D
4:00 PM	5:00 PM	Hip and Knee Arthroplasty - Complications, Wear and Infections	Room 18-19
4:00 PM	5:00 PM	Podium Presentations by Residents/Fellows	Room 24 and 25
5:15 PM	6:15 PM	AAOS Kappa Delta and OREF Award Paper Presentations	Ballroom A and B
6:15 PM	6:45 PM	Poster Session I Dismantle	Exhibit and Poster Hall West and Central Hall
MONDAY February 7			Room
7:00 AM	8:00 AM	Poster Session II Set Up	Exhibit and Poster Hall West and Central
7:00 AM	9:00 AM	RIG: Cartilage Mechanobiology	Room 20-21
7:00 AM	5:30 PM	Registration Open	West Hall Registration
7:30 AM	9:00 AM	Best Practices to Promote Institutional Diversity, Equity and Inclusion	Room 15-17
7:30 AM	5:30 PM	Speaker Ready Room Open	Room 3
8:00 AM	9:00 AM	Spotlight: Tendon Matrix Biology (Spotlight Speaker Jess Snedeker)	Ballroom A and B
8:00 AM	9:00 AM	Bone - Structure, Function and Mechanics	Ballroom C
8:00 AM	9:00 AM	Knee Injury	Ballroom D
8:00 AM	9:00 AM	Making Sense of Your Percents: A Guide to Developing and Managing Research Budgets	Room 11-13
8:00 AM	9:00 AM	Infection	Room 18-19
8:00 AM	9:00 AM	Shoulder and Elbow - Arthroplasty	Room 24-25
9:15 AM	10:15 AM	Collaborations Session featuring ON Foundation Keynote Speaker Christian Latterman, MD	Ballroom A and B
10:00 AM	7:00 PM	Exhibit Hall Open	Exhibit and Poster Hall West and Central Hall
10:15 AM	11:15 AM	Poster Session II (EVEN Numbered Posters)	Exhibit and Poster Hall West and Central Hall
11:15 AM	12:15 PM	Spotlight: Growth Factors for Cartilage Preservation, Repair and Engineering (Spotlight Speaker Stephen Trippel)	Ballroom A and B
11:15 AM	12:15 PM	Knee Osteoarthritis	Ballroom C
11:15 AM	12:15 PM	Factors Affecting Tendon Healing	Ballroom D
11:15 AM	12:45 PM	RIG: Musculoskeletal Infection	Room 11-13
11:15 AM	12:15 PM	Skeletal Muscle - Mechanics of Physiology and Pathology	Room 18-19
11:15 AM	12:15 PM	A Focus on Translational Research	Room 24-25
12:00 PM	1:30 PM	ORS Business Innovation Competition	Innovation Theater
1:30 PM	3:00 PM	Symposium: Biomaterials for Tendon and Ligament Regeneration From Bench to Commercialization	Ballroom A and B
1:30 PM	3:00 PM	Crosstalk Workshop: Preclinical Models of Impaired Fracture Healing	Ballroom C
1:30 PM	3:00 PM	Workshop: Energy Metabolism in Bone and Cartilage	Ballroom D
1:30 PM	3:00 PM	Workshop: Genome editing for mechanistic insight and treatment of musculoskeletal disorders	Room 18-19
1:30 PM	3:00 PM	Workshop: Education in Orthopaedics	Room 20-21
1:30 PM	3:00 PM	Bench to Bedside: Parathyroid Hormone Receptor	Room 24-25
3:15 PM	4:15 PM	Spotlight: Bone Fracture Healing (Spotlight Speaker Chelsea Bahney)	Ballroom A and B
3:15 PM	4:15 PM	Cartilage and Synovium - Joint Tissues	Ballroom C
3:15 PM	4:15 PM	Hip and Knee Arthroplasty - Clinical Outcomes	Ballroom D
3:15 PM	4:15 PM	Nuts and Bolts of Funding and Running a Startup as a PI	Room 11-13
3:15 PM	4:15 PM	Back to Basics: Evolution of Functional Tissue Engineering for Soft Tissue Repairs (Speaker David Butler)	Room 15-17
3:15 PM	4:15 PM	Intervertebral Disc - Treatment and Therapeutics	Room 18-19
3:15 PM	4:15 PM	Foot and Ankle - Imaging and Modeling	Room 24-25
4:30 PM	5:30 PM	Spotlight: Racial, Ethnic, and Income-based Disparities in the Use of Joint Replacements (Spotlight Speaker Caroline Thirukumarar)	Ballroom A and B
4:30 PM	5:30 PM	Cartilage and Synovium - Mitochondria and Metabolism	Ballroom C
4:30 PM	5:30 PM	Biomaterials - Bone Repair and Regeneration	Ballroom D
4:30 PM	5:30 PM	Knee - Imaging and Reconstruction	Room 18-19
4:30 PM	5:30 PM	Roundtable Networking on Innovation: Academia, Industry and Beyond	Room 20-21
4:30 PM	5:30 PM	Late Breaking Podium Presentations	Room 24-25
5:30 PM	7:00 PM	Poster Session II Reception	Exhibit and Poster Hall West and Central Hall
TUESDAY February 8			Room
7:00 AM	9:00 AM	Destigmatizing Mental Illness: Practical Tools for the Workplace	Room 15-17
7:30 AM	2:00 PM	Speaker Ready Room Open	Room 3
7:45 AM	2:00 PM	Registration Open	West Hall Registration
8:00 AM	9:00 AM	Bone - Treatment and Therapeutics	Ballroom A and B

8:00 AM	9:00 AM	Cartilage and Synovium - Mechanics and Mechanobiology	Ballroom C
8:00 AM	9:00 AM	Shoulder and Elbow - Biology and Biologics	Ballroom D
8:00 AM	9:00 AM	Hip and Knee Arthroplasty - Computational and Biomechanical Analysis	Room 18-19
8:00 AM	9:00 AM	Hand and Wrist	Room 24-25
9:00 AM	10:15 AM	Poster Session II (ODD Numbered Posters)	Exhibit and Poster Hall West and Central Hall
10:30 AM	12:00 PM	ORS Incoming Presidential Address & Debate: Orthobiologics Can Delay Joint Replacements	Ballroom A and B
12:15 PM	1:15 PM	Biomaterials - Implant Materials	Ballroom A and B
12:15 PM	1:15 PM	Imaging - Translational and Clinical Imaging	Ballroom C
12:15 PM	1:15 PM	Hip - Injury, Diagnostics and Treatment	Ballroom D
12:15 PM	1:15 PM	How to Write a High-Impact Biosketch	Room 11-13
12:15 PM	1:15 PM	Clinical Research - Genome Wide Studies and Metabolomics	Room 18-19
12:15 PM	1:15 PM	Skeletal Muscle - Engineering and Therapeutics	Room 24-25
1:30 PM	2:15 PM	ORS Closing Session	Ballroom A and B
2:15 PM	2:45 PM	Poster Session II Dismantle	Exhibit and Poster Hall West and Central Hall