



# GRANT AND AWARD RECIPIENTS 2024

#### OREF CLINICAL RESEARCH AWARD

PI: Christopher Evans, PhD, FAAOS Mayo Clinic

Osteoarthritis Gene Therapy: A 30-year Journey from Concept to Clinical Trials

#### OREF LIFETIME SERVICE AWARD

Ramon L. Jimenez, MD

# ORS/OREF DISTINGUISHED INVESTIGATOR AWARD

Timothy Wright, PhD Hospital for Special Surgery

# RESEARCH GRANTS OREF CAREER DEVELOPMENT GRANT

PI: Brian Chalmers, MD

The Hospital for Special Surgery

Objective TKA Laxity: Correlation with Patient Perceptions of Instability?

Partially funded by the Dane and Mrs. Mary Louise Miller Endowment Fund

#### **OREF NEW INVESTIGATOR RESEARCH GRANTS**

PI: Claire Eliasberg, MD

The Hospital for Special Surgery

Characterizing the Effects of Corticosteroids in

Rotator Cuff Tendinopathy

Funding made possible by Thomas P. Sculco, MD and Mrs. Cynthia Sculco

#### PI: Augustine Saiz Jr., MD

The Regents of the University of California, Davis Decellularized Skeletal Muscle Matrix for Open Fractures with Muscle Loss

Funding made possible by the Hark Family in Memory of Dr. Fred Hark and Dr. William Hark

#### OREF/GOLDBERG ARTHRITIS RESEARCH GRANT

PI: Zachary Lum, MD

The Regents of the University of California, Davis CHAT-OA: Conversations in Health-Literacy Using Al for Osteoarthritis Pts

Funding made possible by the Dr. Victor and Mrs. Harriet Goldberg Endowment Fund

## OREF/ASES/ROCKWOOD CLINICAL SHOULDER RESEARCH GRANT

PI: Sophia Ulman, PhD

Co-PI: John Arvesen, MD

Scottish Rite for Children

Establishing an RTP Test Battery for Patients

Post Shoulder Stabilization

Funding made possible by the Dr. and Mrs. Charles Rockwood Family Endowment Fund  $\,$ 

#### OREF OSTEOARTHRITIS RESEARCH GRANT

PI: Natalia Harasymowicz, PhD

The University of Utah

Synovial Lining Macrophages in OA: Defining Their Fate in Obesity
Funding made possible by the American Arthritis Society

#### OREF/OTA TRAUMA RESEARCH GRANT

PI: Emil Schemitsch, MD

London Health Sciences Centre Research Inc. (Lawson Health Research Institute)

Fixation for Fractures Around the Ankle in the Frail or Compromised Elderly

Partially funded by Arthrex, Inc.

# OREF/MUSCULOSKELETAL TRANSPLANT FOUNDATION (MTF) BIOLOGICS RESEARCH GRANT

PI: Feini Qu, VMD, PhD

University of Washington

Microgel-Enhanced Allogeneic Stem Cell Transplantation for Composite Musculoskeletal Tissue Regeneration

Funding made possible by the Musculoskeletal Transplant Foundation Biologics

# OREF AANA FOUNDATION MULTIMODAL MUSCULOSKELETAL PERIOPERATIVE PAIN MANAGEMENT GRANT

PI: Charles Hannon, MD

Co-PI: Erin E. Martin, CRNA, APRN, DNP

Mayo Clinic, Rochester, MN

How Many Dexamethasone Doses Should Be Given in TKA? A Prospective RT

Funding made possible by the American Association of Nurse Anesthetists (AANA) Foundation

# OREF SKELETAL METASTASES AND PATHOLOGICAL FRACTURE RESEARCH IN COLLABORATION WITH MSTS

PI: Jonathan Morris, MD

**Emory University** 

Elucidating Cancer Resistance of Naked Mole Rats

Funding made possible by Mr. Randy Goodwin

#### OREF PREVENTION OF MUSCULOSKELETAL YOUTH SPORTS INJURIES RESEARCH GRANT IN HONOR OF JAMES R. ANDREWS, MD

PI: Ryan Roach, MD

University of Florida, Gainesville

Educational Tools for Injury Prevention Guidelines for Baseball Caregivers

#### MENTORED CLINICIAN SCIENTIST GRANTS

PI: David Brogan, MD

Washington University School of Medicine in St. Louis Identification & Imaging of Skeletal Muscle Response to Graded Nerve Crush

Funding made possible by the Ira A. Roschelle Family Foundation

#### PI: Cecilia Pascual-Garrido, MD, PhD

Washington University School of Medicine in St. Louis Mediators of the OA Cascade in the Pre-Arthritis Hip Funding made possible by the American Arthritis Society

#### PI: Carmen Quatman, MD, PhD

The Ohio State University College of Medicine
Transformative Solutions for Reducing Frequent 911 Fall Calls
in the Homes

Funding made possible by the Ira A. Roschelle Family Foundation

#### PI: Lauren Shapiro, MD

The Regents of the University of California, San Francisco

Addressing Cross-Cultural Adaptation of PROMs for Distal Radius Fractures

Funding made possible by the Dr. Zachary B. and Mrs. Kathleen Friedenberg Endowment Fund

# RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

PI: Kyle N. Kunze MD

The Hospital for Special Surgery

Knee-Flexion Angle Effects on Joint Mechanics After Meniscus Root Repair

Funding made possible by the John T. Hocker Charitable Foundation in Memory of John T. Hocker, MD

PI: Lisa Tamburini, MD

Co-PI: Caroline Dealy, PhD

University of Connecticut Health Center

Evaluation of Cartilage Integrative Healing in

Osteochondral Allografts

Funding made possible by Dr. Thomas P. and Mrs. Cynthia Sculco

PI: Nathan Varady, MD, MBA

Co-PI: Scott Rodeo, MD

The Hospital for Special Surgery

Characterizing the Cellular Composition of Bone Marrow Aspirate Concentrate

Funding made possible by Dr. Thomas P. and Mrs. Cynthia Sculco

#### RESIDENT RESEARCH PROJECT GRANTS

PI: Varun Arvind, MD Co-PI: Alice Hung, PhD Co-PI: Joshua Hyman, MD

Columbia Presbyterian Medical Center

Molecular Regulators of Tendon in Contracture Formation

PI: Wyatt David, MD Co-PI: Alan Zhang, MD

The Regents of the University of California,

San Francisco

Crosswalks Between Clinical Outcomes Metrics After

Hip Arthroscopy

Funding made in Honor of Bernard R. Bach Jr., MD

PI: Michael Flores, MD

Co-PI: Theodore Miclau, MD

The Regents of the University of California, San

Francisco

Quality-of-Life after Fracture-Related Infections in Latin America

Funding made possible by the Western Orthopaedic Association/WOF

PI: Dylan Greif, MD

Co-PI: Sandeep Mannava, MD

Co-PI: Whasil Lee, MD

University of Rochester Medical Center

Expression of PIEZO-1 Mechanotransduction after

Rotator Cuff Injury

Funding in Honor of Bernard R. Bach Jr., MD

PI: Nicole Hung, MD

Co-PI: Lauren Wessel, MD Co-PI: Nicholas Bernthal, MD

The Regents of the University of California, Los Angeles

Deep Learning: Predicting Upper Extremity Soft Tissue

Sarcoma Recurrence

Funding made possible by the Western Orthopaedic Association/WOF

PI: Sara Kiani, MD

Co-PI: Ishaan Swarup, MD

The Regents of the University of California,

San Francisco

Erector Spinae Plane Blocks for Pediatric Scoliosis Posterior

Spinal Fusion

Funding made possible by the Ira A. Roschelle Family Foundation

PI: Matthew McIIrath, MD

Co-PI: Joseph Buckwalter, MD

The University of Iowa

Kinematic Changes After Distal Radius Fracture Repair

Funding made possible by Kevin Plancher, MD

PI: Daniel Santana, MD

Co-PI: Christopher Bayne, MD

University of California, Davis

Flexor Pulley Characterization in Recreational Climbers

Funding made possible by the Western Orthopaedic Association/WOF

PI: Lacey Smith, MD

Co-PI: David Shearer, MD

The Regents of the University of California,

San Francisco

Quantifying the Burden of Musculoskeletal Disease in Tanzania

Funding made possible by the Ira A. Roschelle Family Foundation

PI: Isaac Talbert, MD

Co-PI: Bernard Hearon, MD

University of Kansas Medical Center

Research Institute, Inc.

Prevention of Noise Induced Hearing Loss in

Robot-Assisted Arthroplasty

Funding made possible by The American Arthritis Society

PI: Alexander White, MD

Co-PI: Anil Ranawat, MD

The Hospital for Special Surgery

Effect of Anterior Closing Wedge High Tibial Osteotomy

on Joint Kinetics

PI: Allison Williams, MD

Co-PI: Amir Kachooei, MD

Co-PI: Daryl Osbahr, MD

Co-PI: Luke Oh, MD

Co-PI: Russell Huffman, MD

Co-PI: Kassem Ghayyad, MD

Rothman Orthopaedics Florida at AdventHealth

Impact of BFR Protocol: Evaluating Oxygenation & Elbow Range

Post-Surgery

#### **REGIONAL NEW INVESTIGATOR GRANTS**

## SOUTHERN ORTHOPAEDIC ASSOCIATION OREF YOUNG INVESTIGATOR AWARDS

#### PI: Haley McKissack, MD

**Emory University** 

Arthroscopic-Assisted Lower Trapezius Transfer vs. Superior Capsular Reconstruction for Treatment of Massive Irreparable Rotator Cuff Tears

#### PI: Jesse Seilern und Aspang, MD

**Emory University School of Medicine** 

Transepiphyseal ACL Reconstruction Using Quadriceps Tendon Autograft in the Skeletally Immature Athlete: Mid-Term Clinical Outcomes

#### PI: Sean Sequeira, BS

Union Memorial Hospital

Peroneal Tendon Repair with Retrofibular Groove Deepening is Associated with Decreased Rates of Revision Peroneal Tendon Repair Procedures Compared to Repair Without Groove Deepening: A Propensity-Matched Analysis

# 2024 CURRENT CONCEPTS IN JOINT REPLACEMENT AWARDS

#### Simarjeet Puri, MD

Ascension Providence Hospital

Assessment of 90-Day Outcomes Following Total Joint Arthroplasty in Ambulatory Surgery Centers, Hospital Outpatient Departments, and Hospitals: A Michigan Arthroplasty Registry Collaborative Quality Initiative Analysis

#### Hemant Reddy, MD

NYU Langone Health

Rates of Postoperative Heart Failure among Type 2 Diabetics with Use of NSAIDs for Total Knee Arthroplasty

#### Andrew Schneider, MD

Indiana University School of Medicine

Does Replicating the Native Hip Center, Femoral Offset and Leg Lengths Improve PROMs After THA?

#### Saad Tarabichi, MD

Mayo Clinic Arizona

Diagnostic Thresholds of Synovial Markers for Acute Periprosthetic Joint Infection: One Size Does Not Fit All

#### Jens Verhey, MD

Mayo Clinic

History of VTE is Not a Contraindication to Aspirin Prophylaxis in Primary THA Patients

#### JaeWon (Freddy) Yang, MD

University of Washington

Duloxetine Does Not Affect Opioid Use or Outcomes following Total Knee Arthroplasty: A Triple-Blinded Randomized Controlled Trial

# 2024 RESIDENT RESEARCH SYMPOSIUM WINNERS

## NATIONAL RESIDENT RESEARCH SYMPOSIUM WINNERS

2024 OREF National Resident Research Symposium Champion

#### Zaamin Hussain, MD

**Emory University** 

Incision or Excision? What to do with the A1 Pulley for Trigger Finger: Results of a Multi-Surgeon Randomized Controlled Trial

#### **Top Scoring Residents**

#### Benjamin Averkamp, MD

Carolinas Medical Center/OrthoCarolina

Repair Technique and Fellowship Training Background Predict Major and Minor Complications after Achilles Tendon Repair

#### Tristan J. Elias, MD

University of Texas Medical Branch

Osteochondral Allograft Reaming Significantly Affects Chondrocyte Viability

#### Kyleen Jan, MD

Rush University Medical Center

THA-10 Score Predicts Conversion to Total Hip Arthroplasty After Hip Arthroscopy for Femoroacetabular Impingement Syndrome at Minimum 10-Year Follow-Up

#### Brian Shear, MD

University of Maryland

Your iPhone Knows How You Will Recover from Your Fracture

#### **Presenters' Choice**

#### Wade Karam, MD

UTHealth Houston, McGovern Medical School

Rapid Sequence MRI vs CT Capsular Width Sign for Detection of Occult Femoral Neck Fractures Associated with Femoral Shaft Fractures

## MIDWEST REGION RESIDENT RESEARCH SYMPOSIUM WINNERS

#### First Place

#### Kyleen Jan, MD

Rush University Medical Center

THA-10 Score Predicts Conversion to Total Hip Arthroplasty After Hip Arthroscopy for Femoroacetabular Impingement Syndrome at Minimum 10-Year Follow-Up

#### **Second Place**

#### Jonathan A. Ledesma, MD

University of Illinois at Chicago

A Prospective, Randomized Clinical Trial of Pedicle Lengthening Osteotomy Versus Open Decompression with Transforaminal Lumbar Interbody Fusion for Lumbar Degenerative Spondylolisthesis with Stenosis

#### Madeline Tiee, MD

Loyola University Medical Center

Sagittal Deformity of Garden Type I and II Geriatric Femoral Neck Fractures is Frequently Misclassified by Lateral Radiographs

#### **Third Place**

#### Myles A. Atkins, MD

Rush University Medical Center

Risk Factors of Subchondral Insufficiency Fracture of the Knee in the Setting of Medical Meniscus Posterior Root Tears

#### Jordan Serotte, MD

University of Chicago

Time to Union in Ballistic vs. Blunt Pertrochanteric, Extra-Capsular Femur Fractures

#### Joseph Tanenbaum MD

Northwestern McGaw Medical Center

The Natural History of Ulnar Collateral Ligament Injuries in Professional Baseball

#### Presenters' Choice

#### Lohith Vatti, MD

University of Chicago

The Effect of Perioperative Dexamethasone on Functional Outcomes of Lower Extremity Long Bone Fracture Fixation

#### Luke Zabawa, MD

University of Illinois at Chicago

Knee Arthroplasty Reimbursement Dynamics: Inflation-Adjusted Analysis from 2006-2022

### MID-ATLANTIC REGION RESIDENT RESEARCH SYMPOSIUM WINNERS

#### First Place

#### Brian Shear, MD

University of Maryland Medical Center

Your iPhone Knows How You Will Recover from Your Fracture

#### **Second Place**

#### Alex Gu, MD

George Washington University

Can Hip and Knee Arthroplasty Surgeons Help Address the Osteoporosis Epidemic?

#### Denver Burton Kraft, MD

Medstar Georgetown University Hospital Minimally Displaced Lateral Humeral Condyle Fractures: Optimizing Follow-up and Minimizing Cost

#### **Third Place**

#### William Johns, MD

Thomas Jefferson University Hospital/Rothman Institute Lower Opioid Prescription Quantity Does Not Negatively Impact Pain Control or Patient Satisfaction Following ACL Reconstruction: A Randomized, Prospective Trial

#### Matthew Kolevar, MD

University of Maryland Medical Center

Development of a Patient-Specific Cartilage Graft Using

Magnetic Resonance Imaging and 3D Printing

#### Matthew B. Weber, MD

Virginia Commonwealth University

Evaluation of Peripheral Nerve Perfusion in Tensioned Repairs

#### **Presenters' Choice**

#### Micheal Raad, MD

Johns Hopkins Medicine

A New Morphologic Classification of Proximal Junctional Kyphosis Following Lower Thoracic to Pelvis Fusion in Adult Spinal Deformity Predicts Revision Surgery and Neurologic Complications

## SOUTHEAST REGION RESIDENT RESEARCH SYMPOSIUM WINNERS

#### First Place

#### Zaamin Hussain, MD

**Emory University** 

Incision or Excision? What to do with the A1 Pulley for Trigger Finger: Results of A Multi-Surgeon Randomized Controlled Trial

#### **Second Place**

#### Benjamin Averkamp, MD

Carolinas Medical Center/OrthoCarolina

Repair Technique and Fellowship Training Background Predict Major and Minor Complications after Achilles Tendon Repair

#### John T. Wilson, MD

University of South Florida/Florida Orthopedic Institute Conventional versus Robotic-Arm Assisted Medial Unicompartmental Knee Arthroplasty: A-20-Year Analysis of Radiographic and Clinical Outcomes

#### **Third Place**

#### Bradley Alexander, MD

University of Mississippi Medical Center Comparison of Recent Trends in Medicare Utilization and Reimbursement for Cervical Spine Discectomy and Fusion Procedures Versus Cervical Disc Arthroplasty

#### Raahil Patel, MD

University of South Florida/Florida Orthopedic Institute Early Success in Anterior Compartment Sparing Tibial Tubercle Osteotomy Utilizing Back-Cut Technique

#### Brittany Raymond, MD

University of Florida

Clinical Outcomes of Operative Management for Radial Tunnel Syndrome According to Surgical Approach: A Systematic Review

#### **Presenters' Choice**

#### Aseel Dib, MD

Carolinas Medical Center/OrthoCarolina Implant Selection in Distal Femur Fractures: An Analysis of Alignment and Outcomes

## SOUTHWEST REGION RESIDENT RESEARCH SYMPOSIUM WINNERS

#### First Place

#### J. Matthew Helm, MD

UTHealth Houston McGovern Medical School
The Effect of Anterior Closing Wedge Slope Reducing Osteotomy
on Coronal Alignment - Considerations with Regards to
Osteotomy Technique and Degree of Slope Correction

#### **Second Place**

#### Tristan J. Elias, MD

University of Texas Medical Branch Osteochondral Allograft Reaming Significantly Affects Chondrocyte Viability

#### Wade Karam, MD

UTHealth Houston McGovern Medical School Rapid Sequence MRI vs CT Capsular Width Sign for Detection of Occult Femoral Neck Fractures Associated with Femoral Shaft Fractures

#### Third Place

#### Hayden Anz, MD

UTHealth Houston McGovern Medical School Biomechanical Analysis of Contact Pressures in Scaphotrapeziotrapezioid Arthritis

#### Kenneth Ford, MD

UTHealth Houston McGovern Medical School Vascular Injury in Tibial Plateau Fractures: Incidence and Risk Factors

#### Guillermo R. Pechero Jr., MD

UTHealth Houston McGovern Medical School

Does Reduction Technique for Hip Fractures Matter? A

Comparison of Closed, Open and Percutaneous Reduction

Techniques in the Treatment of Intertrochanteric Femur Fractures

#### **Presenters' Choice**

#### Ayane Rossano, MD

Dell Medical School at the University of Texas at Austin Social Work Interventions Improve Outcomes in Total Joint Arhtroplasty: An Effort to Improve Equity at an Urban Musculoskeletal Integrated Practice Unit

## WESTERN REGION RESIDENT RESEARCH SYMPOSIUM WINNERS

#### First Place

#### Seth Ahlquist, MD

University of California, Los Angeles (UCLA)

A Comparison of Total Knee Arthroplasty Outcomes Between Hemodialysis and Renal Transplant Patients

#### **Second Place**

#### Molly A. Hulbert, MD

University of California, San Diego

A Community-Based Outreach Program Can Change Underrepresented Minority Student Perception of Orthopaedic Profession Fit and Attainability: Lessons from BONE Academy

#### Thomas E. Olson, MD

University of California, Los Angeles (UCLA)

Correction of Fixed Knee Flexion Deformity in Patients with Cerebral Palsy Using Suture Anchors for Anterior Distal Femur Hemi-Epiphysiodesis

#### **Third Place**

#### Reinaldo E. Colon-Morillo, MD

Naval Medical Center San Diego

Proximal Pole Scaphoid Fracture Nonunion Treated with Ipsilateral Hamate Transfer

#### Abhinav Sharma, MD

University of California, Irvine

Laminectomy with Fusion for Cervical Spondylotic Myelopathy is Associated with Higher Early Morbidity and Risk of Perioperative Complications Compared to Laminectomy Alone

#### Jonathan Yu, MD

University of California, Los Angeles (UCLA)

How Have Total Joint Arthroplasty Implant Prices Changed Compared to Overall Costs and Reimbursements?

#### **Presenters' Choice**

#### Rishi Trikha, MD

University of California, Los Angeles (UCLA)

From the Lab to the Clinic Angiotensin Converting Enzyme Inhibition May Incur Infectious Risk

## CALIFORNIA ORTHOPAEDIC ASSOCIATION OREF RESIDENT AWARD WINNER

#### **Emily Mills, MD**

Keck School of Medicine University of Southern California

Preoperative Radiographic Findings Associated with Postoperative Spinopelvic Risk Factors for Instability Following Total Hip Arthroplasty

## OREF EDWARD C. MCELFRESH AWARDS FOR BEST RESIDENT ABSTRACTS

#### **OREF Resident Award Winners**

#### Nicholas Reiners, MD

University of Minnesota

Outcomes of Geriatric Hip Fracture Patients with Associated Proximal Humerus Fractures. Does Surgical Treatment of the Proximal Humerus Lead to Improved Mobility?

#### Austen Thompson, MD, PhD

Mayo Clinic

Impact of Intraoperative Periprosthetic Fractures During Cemented Hemiarthroplasty for Femoral Neck Fractures



# 2025 GRANT AND AWARD RECIPIENTS

#### **OREF CLINICAL RESEARCH AWARD**

Brian J. Cole, MD

Midwest Orthopaedics at Rush

Optimizing Patient Outcomes Following Osteochondral Allograft Transplantation – The Impact of 25 Years of Translational and Clinical Research

#### **OREF LIFETIME SERVICE AWARDS**

Richard D. Coutts, MD William C. McMaster, MD

#### CAREER DEVELOPMENT GRANT

Nicholas Bedard, MD

Mayo Clinic, Rochester

Evaluation on Phage Dosing for Periprosthetic Joint Infection Treatment

#### **NEW INVESTIGATOR GRANT**

Laura Moore, MD, PhD

The Hospital for Special Surgery

The Role of Cellular Senescence in Joint Stiffness

#### RUTH JACKSON ORTHOPAEDIC DIVERSITY, EQUITY, INCLUSION AND DISPARITIES IN ORTHOPAEDIC HEALTH CARE RESEARCH GRANT

Jaysson Brooks, MD

Scottish Rite for Children

Understanding Factors Influencing Attrition in Orthopedic Surgical Training

Funding provided by The Zimmer Biomet Foundation

# OREF FUNDING OPPORTUNITIES

Visit www.oref.org/grants for deadlines and details\*

# UPCOMING GRANTS Opening March 19, 2025

**OREF Mentored Clinician Scientist Grant: \$20,000** 

OREF/AAOS Clinical Gaps Research Grant: \$100,000

OREF Resident Clinician Scientist Training Grant: \$20,000 (four available)

OREF Resident Research Project Grant: \$5,000 (seven available)

<sup>\*</sup>Opportunities printed at press time are subject to change.

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Driving innovation and excellence in musculoskeletal research for 70 years.

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OREF is founded by orthopaedic surgeons to help their colleagues investigate research questions important to the field.

## 1957

William F. Enneking, MD receives an OREF research grant. His work established principles for modern day bone banks.

## 1963

With funding from OREF,
Marshall Urist, MD
discovers and advances bone
morphogenetic proteins
(BMPs) that stimulate bone
growth and healing.

# Visit the OREF Booth in the Sails Pavilion to learn more about OREF's history of supporting research that leads to improvements in clinical practice.



ORTHOPAEDIC RESEARCH AND EDUCATION FOUNDATION



The Orthopaedic Research and Education Foundation (OREF) is an independent 501(c)(3) non-profit organization committed to improving clinical practice and patient outcomes by funding outstanding research and mentoring new investigators to improve the lives of patients with musculoskeletal conditions.

Since its founding, OREF has provided nearly \$150 million in orthopaedic research grants and awards. Our active grant portfolio totals 110 research grants with a value of \$8.1 million. Current funding opportunities and a list of awarded grants may be accessed at www.oref.org/grants.



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