OREF CLINICAL RESEARCH AWARD
Pl: Martha M. Murray, MD, FAAOS
Boston University Medical Center, Harvard Medical Center
Bridge-Enhanced ACL Restoration:
Translation from Academic Lab to FDA Approval

OREF LIFETIME SERVICE AWARDS
John W. Brown
Stryker
John J. Callaghan, MD
University of Iowa

ORS/OREF DISTINGUISHED INVESTIGATOR AWARDS
Gunnar B.J. Andersson, MD, PhD
Rush University Medical Center
John J. Callaghan, MD
University of Iowa

RESEARCH GRANTS
AMERICAN ORTHOPAEDIC SOCIETY FOR SPORTS MEDICINE IN COLLABORATION WITH OREF AND THE AAOS SPORTS MEDICINE MULTICENTER RESEARCH GRANT
Pl: Beth Shubin Stein, MD
Co-Pl: Shital N. Parikh, MD
The Hospital for Special Surgery
JUPITER 4.0: Risk Factors for Failure of Isolated MPFL Reconstruction

OREF/AAOS INJECTABLE ORTHOBIOLOGICS OF KNEE OSTEOARTHRITIS RESEARCH GRANT
Pl: Kyle Duchman, MD
Co-Pl: Joseph A. Buckwalter, IV, MD
University of Iowa
Platelet Rich Plasma for Osteoarthritis. Role of Exosomes in Effectiveness
Funding made possible by the American Academy of Orthopaedic Surgeons

OREF OSTEOARTHRITIS RESEARCH GRANT
Pl: Muhammad Farooq Rai, PhD, DVM
Co-Pl: Regis J. O’Keefe, MD, PhD
Washington University in St. Louis
KLF10 as a Novel Therapeutic Target in Osteoarthritis
Funding made possible by the American Arthritis Society

OREF ETIOLOGY OF HIP OSTEOARTHRITIS GRANT
In Honor of William H. Harris, MD
Pl: Cecilia Pascual Garrido, MD, PhD
Washington University in St. Louis
Epigenetic Regulation of Key Molecular Players in the Progression of Hip OA

THE IMPACT OF REGULATORY POLICIES ON PATIENT-PHYSICIAN RELATIONSHIP RESEARCH GRANT IN HONOR OF SIGVARD HANSEN, MD
Pl: Paul Courtney, MD
Co-Pl: Graham Goh, MD
Thomas Jefferson University
Rothman Institute
Impact of Prior Authorization of Patient Care and Outcomes in Orthopaedics

OREF/OTA TRAUMA RESEARCH GRANT
Pl: Scott Rodeo, MD
Co-Pl: Laura Moore, MD, PhD
The Hospital for Special Surgery
Modulating Pro-Fibrotic Signaling After Ligamentous Knee Injury
Funding made possible by Arthrex

OREF SKELETAL METASTASES AND PATHOLOGICAL FRACTURE RESEARCH GRANT IN COLLABORATION WITH MSTS
Pl: Kurt Weiss, MD, PhD
University of Pittsburgh
Musculoskeletal Oncology Virtual Evaluation Study (MOVES)
MENTORED CLINICIAN SCIENTIST GRANTS
PI: David Brogan, MD
Washington University in St. Louis
Identification & Imaging of Skeletal Muscle Response to Graded Nerve Crush
Funding made possible by the Dr. Zachary B. and Mrs. Kathleen Friedenberg Endowment Fund

PI: Aidin Eslam-Pour, MD
Yale University
Personal Surgical Planning to Avoid THA Dislocation: Concept of Safe Zone

OREF RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS
PI: Lynn Ann Forrester, MD
Columbia University Medical Center
The Role of Tendinopathy and Tissue Crosstalk in Osteoarthritis Progression
Funding provided by the Ira A. Roschelle Family Foundation

PI: Cory Mayfield, MD
Co-PI: Jennifer Alter Bell, MD
University of Southern California (USC)
scRNA-seq of Corticosteroid-Induced Osteonecrosis of the Femoral Head
Funding provided by the Ira A. Roschelle Family Foundation

PI: Vincentius Suhardi, MD, PhD
Co-PI: Xu Yang, MD
Co-PI: Mathias Bostrom, MD
The Hospital for Special Surgery
Inhibition of Gremlin 1 for Prevention and Treatment of Aseptic Loosening
Funding made possible by Thomas P. Sculco, MD

PI: Joash Suryavanshi, MD
Indiana University
A Novel Antibiotic to Reduce Fracture Related Infection in a Murine Model
Funding made possible by the John T. Hocker Charitable Foundation
In Memory of John T. Hocker, MD

OREF RESIDENT RESEARCH PROJECT GRANTS
PI: Ryan Halvorson, MD
Co-PI: Jeannie Bailey, MD
The Regents of the University of California, San Francisco
Phenotyping Post-Operative ACL Recovery Trajectories
Funding in Honor of Bernard R. Bach Jr., MD

PI: Aaron Hoyt, MD
Co-PI: Ashley Levack, MD
Loyola University of Chicago
In Vitro Thermal Stability of Dalbavancin in PMMA Cement
Funding made possible by The American Arthritis Society

PI: Christa LiBrizzi, MD
Co-PI: Carol Morris, MD
Co-PI: Aaron James, MD
Co-PI: Jeremais Sulam, MD
Johns Hopkins University School of Medicine
Use of Deep Learning for Necrosis Assessment in Patients with Osteosarcoma

PI: David Liu, MD
Co-PI: Brian Snyder, MD
Boston Children’s Hospital
Value of Vitamin D in Prevention and Treatment of Pediatric Fractures
Funding made possible by Brown University in Memory of Dr. Michael Ehrlich

PI: Michael Livesey, MD
Co-PI: Mohit Gilotra, MD
Co-PI: Eric Nuxoll, MD
The University of Iowa
Effects of Heating on Biofilm-Associated Orthopedic Infections

PI: Daniel Meeker, MD
Co-PI: Jacob Elkins, MD
Co-PI: Eric Nuxoll, MD
The University of Iowa
Perioperative Patient Education and Sling Compliance after Shoulder Surgery
In Honor of Jack C. Hughston, MD and James R. Andrews, MD
Funding made possible by Michael J. Axe, MD and Jeremie M. Axe, MD

PI: Daniel Portney, MD
Co-PI: Jason Strelzow, MD
Co-PI: Jeffrey Stepan, MD
The University of Chicago
Identification of Peripheral Nerve Pathology Using 3D Ultrasound
Funding made possible by the Ira A. Roschelle Family Foundation

PI: Mariel Rickert, MD
Co-PI: Jonathan Schoenecker, MD
Vanderbilt University Medical Center
Immunocoagulopathy: The Cause of the Third Wave of Death in Level-I Trauma?
Funding made possible by the Ira A. Roschelle Family Foundation

PI: Michael Seward, MD
Co-PI: Matthew Abdel, MD
Mayo Clinic Rochester
What is the Amount of Clinically Significant Preop Weight Loss Before TJA?
PI: Christopher Stewart, MD  
Co-PI: Saam Morshed, MD  
The Regents of the University of California, San Francisco  
Limb Optimization: Factors that Influence Limb Reconstruction or Amputation

PI: Rishi Trikha, MD  
Co-PI: Nicholas Bernthal, MD  
The Regents of the University of California, Los Angeles  
Periprosthetic Infection Risk in Medically Treated Rheumatoid Arthritis  
Funding made possible by the Western Orthopaedic Association/WOF

PI: Jesse Wang, MD  
Co-PI: Xudong Li, MD  
University of Virginia  
Modulation of Macrophages on Pathogenesis of Degenerative Disc Disease  
Funding made possible by the Ira A. Roschelle Family Foundation

PI: Arakua Welbeck, MD  
Co-PI: Christopher Dy, MD  
Washington University, School of Medicine  
Wearable Sensors to Measure Function after Brachial Plexus Reconstruction  
Funding made possible by Dr. Adam and Julie Harris in Memory of Eugene Harris, MD

PI: Brian Yang, MD  
Co-PI: Duretti Fufa, MD  
The Hospital for Special Surgery  
Tenodesis Effect as a Diagnostic Test to Detect Occult Dorsal Ganglion Cyst  
Funding made possible by the Ira A. Roschelle Family Foundation

PI: Jie Yao, MD  
Co-PI: Jason Hsu, MD  
University of Washington Medical Center- Orthopaedics  
Effect of Reverse Shoulder Component Positioning on Subacromial Impingement  
Funding made possible by the Ira A. Roschelle Family Foundation

REGIONAL NEW INVESTIGATOR AWARDS

EASTERN ORTHOPAEDIC ASSOCIATION  
OREF RESIDENT TRAVEL GRANT AWARDS

Daniel E. Goltz, MD, MBA  
Duke University  
2-Stage Revision for Periprosthetic Infection in Shoulder Arthroplasty: An Institutional Experience

Tara Gaston Moncman, DO  
Thomas Jefferson University / The Rothman Institute  
Improved Pain and Function after TTC Fusion with a Custom Cage

Adam J. Santoro, DO  
Rowan SOM - Inspira Health  
Patient Specific Emailed Discharge Instructions Improve Patient Satisfaction after Arthroscopy

SOUTHERN ORTHOPAEDIC ASSOCIATION  
OREF RESIDENT AWARDS

Daniel Pereira, MD  
Washington University Orthopaedics  
Outcomes of Close Reduction and Casting of Pediatric Tibia Shaft Fractures: Report from Two Large Trauma Centers

Eric Taris, DO  
East Tennessee State University  
Effects of Metacarpophalangeal Arthrodesis on Thumb Ligament Reconstruction Tendon Interposition

Kevin C. Wall, MD, MPH  
University of Alabama at Birmingham  
Liposomal Bupivacaine Provides Better Comfort than Interscalene Catheter following Arthroscopic Shoulder Surgery

WESTERN ORTHOPAEDIC ASSOCIATION  
OREF YOUNG INVESTIGATOR AWARDS

Ananth Eleswarapu, MD  
Montefiore Medical Center  
Intraoperative 3D Navigation and Post-Operative Infection in Thoracolumbar Fusion

Justin Haller, MD  
University of Utah  
Articular Fragment Restoration is Critical to Mitigate Post-Traumatic Osteoarthritis

Richard Michelin, DO  
Riverside University Health System Medical Center  
Adolescent Shoulder Instability Arthroscopic Management: Knotless versus Knotted Suture Anchors

SHIMOMURA/OREF/INTERNATIONAL SOCIETY OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY (SICOT) TRAVEL AWARDS

Muhammad Arsalan Ghazi, MD  
Liaquat National Hospital & Medical College  
Multiligamentous Knee Injury Treated with Autologous Graft Our Novel Technique

Saurabh Gupta, MS  
All India Institute of Medical Sciences Jodhpur  
Comparison of Impact of Joint Line Orientation on Patient Reported Outcome
OREF/CURRENT CONCEPTS IN JOINT REPLACEMENT CLINICAL PRACTICE POST AWARD

Ki nam Bae
Asan Medical Center
*Long-Term Survivorship of Varus Aligned Total Knee Arthroplasty can be Affected by the Degree of Joint Line Obliquity: Postoperative Phenotype Analysis*
Funding made possible by Thomas Sculco, MD and Cynthia Sculco

Mohammed Hammad, MD
Hospital for Special Surgery
*Povidone-Iodine and Hydrogen Peroxide Irrigation Solutions do not Compromise Osseointegration*
Funding made possible by Thomas Sculco, MD and Cynthia Sculco

Linsen T. Samuel, MD, MBA
Carilion Clinic
*A Reduction in Body Mass Index from ≥ 40 to < 40 May Increase All-cause Readmissions after Primary Total Hip Arthroplasty*
Funding made possible by Thomas Sculco, MD and Cynthia Sculco

Tony S. Shen, MD
Hospital for Special Surgery
*Characterization of Genetic Risk of End-Stage Knee Osteoarthritis Treated with Total Knee Arthroplasty*
Funding made possible by Thomas Sculco, MD and Cynthia Sculco

Michael N Sirignano, MD
University of Louisville
*Incidence of Instability Following Primary THA Continues to Decline in the Medicare Population*
Funding made possible by Thomas Sculco, MD and Cynthia Sculco

Adam A. Rizk, BA
Cleveland Clinic Foundation
*Are Trends in Revision Total Joint Arthroplasty Sustainable? Declining Inflation-Adjusted Medicare Reimbursement for Hospitalizations*
Funding made possible by Thomas Sculco, MD and Cynthia Sculco

2022 RESIDENT RESEARCH SYMPOSIA WINNERS

NATIONAL SYMPOSIUM

2022 Richard Kyle, MD OREF National Resident Research Symposium Grand Champion
Kyle W. Morse, MD
Hospital for Special Surgery
*A Vertebral Stem Cell Mediating Spine Fusion*

TOP SCORING RESIDENTS

Michael Davies, MD
University of California, San Francisco
*Defining Endogenous Mitochondrial Transfer in Muscle Following Rotator Cuff Injury*

Steven Garcia, MD
University of California, San Francisco
*Heterogeneous Human Fibroadipogenic Cells Subpopulations are Altered in Injury*

Eoghan T. Hurley, MD
Duke University
*Buccally Absorbed Cannabidiol Shows Promise in Treating Pain and Improving Satisfaction Immediately Following Arthroscopic Rotator Cuff Repair: A Placebo-Controlled, Double-Blinded, Randomized Trial*

Andrew Luzzi, MD
Columbia University Irving Medical Center
*Enhanced Tendon-to-Bone Attachment Healing Through Hedgehog Activation*

PRESENTERS' CHOICE

Katya Eve Strage, MD
University of Colorado
*Is a History of Pelvic Fracture an Indication for a Primary Elective Caesarean Section?*

MIDWEST REGION RESIDENT RESEARCH SYMPOSIUM

1st Place Award
Kameron Shams, MD
University of Michigan
*Serum Titanium Levels Remain Persistently Elevated but Urine Titanium is Undetectable in Children with Early-Onset Scoliosis (EOS) Undergoing Growth-Friendly Surgical Treatment: A Prospective Study*

2nd Place Awards
Paul M. Inclan, MD,
Washington University in St. Louis
*Risk for Total Knee Arthroplasty Following Anterior Cruciate Ligament Reconstruction*

Stacia Marie Ruse, MD
University of Michigan
*Pregnancy in Orthopedic Residents: Peripartum Barrier Identified*
3rd Place Awards
Farhan Ahmad, MD
Rush University Medical Center
Elective Orthopaedic Procedures Before and During the COVID-19 Pandemic: Complications and Delays from 146,430 American Seniors

Michael Fice, MD
Rush University Medical Center
Does Synovial Sarcoma Grade Predict Oncologic Outcomes, and Does a Low-Grade Variant Exist

Michael Murphy, MD
Loyola University Medical Center
Artificial Intelligence More Accurately Measures Acetabular Component Orientation Than Hand Measurements

Presenters’ Choice
Daniel Portney, MD
University of Colorado
The Ballistic Articular Structure Injury Classification (BASIC) System: Clarifying Ballistic Articular Injuries

CENTRAL WEST REGION RESIDENT RESEARCH SYMPOSIUM
1st Place Award
Katya Eve Strage, MD
University of Colorado
Is a History of Pelvic Fracture an Indication for a Primary Elective Caesarean Section?

2nd Place Awards
Zachary Clarke, MD
University of Colorado
The Importance of Patient Resilience on Outcomes Following Hip and Knee Arthroplasty

Kylie Shaw, MD
University of Colorado
Patient-Reported Outcomes of Pain and Related Quality of Life One-Year Following Osseointegration in Patients with Lower-Extremity Amputations

3rd Place Awards
Ryan Price, MD
University of New Mexico
Benefits of Dual Attending Surgeons During Three- and Four-Ligament Reconstruction Knee Surgery

Dylan Rakowski, MD
University of Colorado
Outcomes of Extra-Articular Distal Femur Fracture Fixation: A Network Meta-Analysis and Probability-Based Projected Costs Comparing Different Intramedullary Nailing and Plating Techniques

Tyler Scott, MD
University of Colorado
A Randomized Trial Comparing Barbed to Traditional Sutures in TKA Closure

SOUTHWEST REGION RESIDENT RESEARCH SYMPOSIUM
1st Place Awards
Michael Davies, MD
University of California, San Francisco
Defining Endogenous Mitochondrial Transfer in Muscle Following Rotator Cuff Injury

Steven Garcia, MD
University of California, San Francisco
Heterogeneous Human Fibroadipogenic Cells Subpopulations are Altered in Injury

2nd Place Awards
Alicia Asturias, MD
University of California, San Francisco
Breaking the Glass: Gender Differences in Endowed Chair Positions and NIH Funding in Musculoskeletal Research

Brendon Mitchell, MD
University of California, San Diego
Can Laser-Assisted Indocyanine Green Angiography Be Used to Quantify Perfusion Changes by Anatomical Location During Staged Fixation of Pilon Fractures? A Pilot Study

3rd Place Awards
Jennifer M. O’Donnell, MD
University of California, San Francisco
Impact of Social Determinants of Health on Preoperative Opioid Utilization in Patients with Lumbar Degeneration

Sarah Stroud, MD
University of California, San Francisco
An Analysis of the Prognostic Factors for Adult Patients with High-Grade Extremity Sarcomas in the California Cancer Registry, 1988-2017

Joseph Wick, MD
University of California, Davis
Patient Characteristics, Injury Types, and Costs Associated with Secondary Over-Triage of Isolated Cervical Spine Fractures

Presenters’ Choice
Grant Schroeder, MD
Stanford Health Care
ACL Injuries Among Pac-12 Athletes: A 5-Year Epidemiologic Study
EASTERN REGION RESIDENT RESEARCH SYMPOSIUM
1st Place Award
Eoghan T. Hurley, MD
Duke University
Buccally Absorbed Cannabidiol Shows Promise in Treating Pain and Improving Satisfaction Immediately Following Arthroscopic Rotator Cuff Repair: A Placebo-Controlled, Double-Blinded, Randomized Trial

2nd Place Awards
Samuel Cohen-Tanugi, MD
Atrium Health Carolinas Medical Center
The Prevalence of Depression and PTSD in Adults with Surgically Managed Traumatic Upper-Extremity Amputations
Zaamin B. Hussain, MD
Emory University
Artificial Intelligence Automated Analysis of Scapula Dynamics Using Dynamic Digital Radiography: Initial Reliability Study

3rd Place Awards
Matthew Akelman, MD
Atrium Health Wake Forest Baptist
Costs and Predictors of 90-Day Readmissions After Shoulder Arthroplasty with a Hospitalist Comanagement Model
Richard Danilkowicz, MD
Duke University
Association of Synovial Fluid and Plasma Tryptophan-Kynurenine Pathway Metabolites with Osteoarthritis Pain and Severity
Julia Mastracci, MD
Atrium Health Carolinas Medical Center
Tibial Nonunion Exchange Nailing Fails More Than One Third of the Time
Elaine Shing, MD, PhD
Atrium Health Carolinas Medical Center
Health Literacy Awareness Amongst Orthopedic Surgery Residents

Presenters’ Choice
Zaamin B. Hussain, MD
Emory University
Artificial Intelligence Automated Analysis of Scapula Dynamics Using Dynamic Digital Radiography: Initial Reliability Study

NORTHEAST REGION RESIDENT RESEARCH SYMPOSIUM
1st Place Award
Kyle W. Morse, MD
Hospital for Special Surgery
A Vertebral Stem Cell Mediating Spine Fusion

2nd Place Awards
Andrew Luzzi, MD
Columbia University Irving Medical Center
Enhanced Tendon-to-Bone Attachment Healing Through Hedgehog Activation
Hemant Reddy, MD
Montefiore Medical Center/Albert Einstein College of Medicine
Factors Predicting Failed Same Day Discharge for Ambulatory Total Hip and Knee Arthroplasty

3rd Place Awards
Troy Amen, MD
Hospital for Special Surgery
Evaluating the Impact of Case-Based Unconscious Bias and Racial Equity Training on Orthopaedic Surgery Trainees
William K. Crockatt, MD
New York Presbyterian/Columbia University
Comparing Skill Acquisition and Validity of Immersive Virtual Reality to Cadaver Laboratory Sessions in Training for Reverse Total Shoulder Arthroplasty
Steven Henick, MD
Montefiore Medical Center/Albert Einstein College of Medicine
Non-Operative Management of First-Time Patellar Dislocation in the Pediatric Population: Risk of Recurrence and Functional Outcomes

Presenters’ Choice
Josephine Coury, MD
Columbia University Irving Medical Center
UIV Within 3 Levels of the Thoracic Apex is the Most Significant Risk Factor for Proximal Junctional Kyphosis in Lenke Type 5 and 6 Adolescent Idiopathic Scoliosis Patients

CALIFORNIA ORTHOPAEDIC ASSOCIATION
OREF Resident Award Winner
Christopher Hart, MD
University of California, Los Angeles
Novel Antibody Disrupts Biofilm in Spinal Implant Infection Model

MINNESOTA ORTHOPAEDIC SOCIETY
OREF Resident Award Winners
Harold I. Salmons IV, MD
Mayo Clinic, Rochester
Implementation of Machine Learning to Predict Cost of Care Associated with Ambulatory Single Level Lumbar Decompression
Samuel Davidson, MD
University of Minnesota
Discrepancy between DXA and CT Based Assessment of Spine Bone Mineral Density
2023 GRANT AND AWARD RECIPIENTS

OREF CLINICAL RESEARCH AWARD
Recognizes outstanding clinical research related to musculoskeletal disease or injury
Marc J Philippon, MD, FAAOS
Steadman Phillipson Research Institute, Colorado
Hip Chondral-Labral Dysfunction: The Road from Excision to Repair, Replacement, and Regeneration

OREF Distinguished Investigator Awards
Honoring individuals who have made a significant contribution to the field of orthopaedic research and to the ORS and/or OREF through their scientific achievements and their commitment of time and service
Peter C. Amadio, MD
Mayo Clinic, Minnesota

CAREER DEVELOPMENT GRANT
Collin May, MD
Boston Children’s Hospital
CT Rigidity Analysis for the Assessment of Regenerate Bone Strength

PROSPECTIVE CLINICAL RESEARCH GRANT
Jonathan Elliott, PhD
Dartmouth-Hitchcock Clinic
Fluorescence-based Identification of Necrotizing Soft-Tissue Infection

NEW INVESTIGATOR RESEARCH GRANT
PI: Natalie Leong, MD
Co-PI: Jie Jiang, PhD
University of Maryland, Baltimore
The Role of CCN2 in Tendon Healing

OREF FUNDING OPPORTUNITIES
Visit www.oref.org/grants for deadlines and details*

UPCOMING GRANTS (OPENING MARCH 15, 2023)

OREF Skeletal Metastases and Pathological Fracture Research Grant: $25,000
OREF Diversity, Equity, and Inclusion (DEI) Research Grant: $150,000
MTEC Research Grant on Improving Recovery Following Acute Injury: $20,000

Resident Clinician Scientist Training Grants: $20,000 (four available)
Mentored Clinician Scientist Supplement Award: $20,000
Resident Research Project Grants—Round 2: $5,000 (five available)

*Opportunities printed at press time are subject to change
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Khaled Elsair, PharmD, PhD, MBA
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Christopher Evans, PhD
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Jinxi Wang, PhD
Joseph Wenke, PhD
John L. Williams, PhD
Zachery Working, MD
Rick W. Wright, MD
Rosanna Wustrack, MD
Chao Xie, MD, MSBA
OREF CAREER DEVELOPMENT GRANT
Pi: Irvin Oh, MD
Co-Pi: Francis Lee, MD, PhD
Yale University
Developing Biomarkers for Diagnosis and Prognosis of Orthopaedic Infection
Funding made possible in part by the Musculoskeletal Transplant Foundation (MTF) Biologics and the Dr. Dane and Mrs. Mary Louise Miller Endowment Fund

OREF CLINICAL RESEARCH AWARD
Pi: Barry P. Boden, MD
The Orthopaedic Center division in Rockville and Germantown, MD
Epidemiology, Mechanisms, and Prevention of Sports Injuries

RESEARCH GRANTS
OREF ETIOLOGY OF HIP OSTEOARTHRITIS GRANT
IN HONOR OF WILLIAM H. HARRIS, MD
Pi: Chai-Lung Wu, PhD
Co-Pi: Brian D. Giordano, MD
University of Rochester
Identification of FGF18 Gene Regulatory Network in Hip OA Using ScRNA-Seq

OREF/AAOS INJECTABLE ORTHOBIOLOGICS OF KNEE OSTEOARTHRITIS GRANT
Pi: Scott Rodeo, MD
Hospital for Special Surgery
PRP Treatment of the ACL-Injured Knee to Decrease the Risk of PTOA
Funding made possible by the American Academy of Orthopaedic Surgeons

OREF OSTEOARTHRITIS RESEARCH GRANT
Pi: Weiguang Wang, PhD
University of California, Los Angeles
BMP Receptor Ligand Traps as a Therapy for Post-Traumatic Osteoarthritis
Funding made possible by the American Arthritis Society

OREF/THE AIRCAST FOUNDATION (TAF) ORTHOPAEDIC RESEARCH GRANT
Pi: Chelsea Bahney, PhD
Steadman Philippon Research Institute
Understanding Contribution of Senescent Cells to Rate of Fracture Repair
Funding made possible by The Aircast Foundation

MENTORED CLINICIAN SCIENTIST GRANTS
Pi: Aidin Eslam-Pour, MD
Yale University
Personal Surgical Planning to Avoid THA Dislocation: Concept of Safe Zone
Funding made possible by the Dr. Zachary B. and Mrs. Kathleen Friedenberg Endowment Fund

Pi: Cecilia Pascual Garrido, MD, PhD
Washington University in St. Louis
Mediators of the OA Cascade in the Pre-Arthritis Hip
Funding made possible by The Aircast Foundation

Pi: Robin Kamal, MD
The Board of Trustees of the Leland Stanford Junior University
Developing and Testing a Tool for Preference Elicitation in CTS
Funding made possible by The Aircast Foundation

OREF TOTAL JOINT REPLACEMENT RESEARCH GRANT
IN MEMORY OF JORGE O. GALANTE, MD
Pi: Victor H. Hernandez, MD
Co-Pi: Michele R. D’Apuzzo, MD
Miller School of Medicine of the University of Miami
Glucose Variability and TJA: Continuous Glucose Monitoring Using Dexcom G6

NEW INVESTIGATOR RESEARCH GRANT
Pi: Brian Lau, MD
Co-Pi: Louis E. DeFrate, MD
Duke University
Quantitative MRI of Glenohumeral Cartilage & Labrum in Shoulder Instability
Funding made possible by Thomas P. Sculco, MD
OREF RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

PI: Tracy Borsinger, MD
Co-PI: Wayne E. Moschetti, MD
Dartmouth-Hitchcock Clinic
Characterizing the Microbiome of Native, Aseptic Bilateral Knee Joints
In Memory of Joseph Seaton Barr Sr., MD
Funding made possible by Joseph S. Barr Jr., MD

PI: Abigail Cortez, MD
The Regents of the University of California, Los Angeles
Cost-Effective Analysis of Below-Knee Prostheses for Tanzanian Amputees
In Memory of John T. Hocker, MD
Funding made possible by the John T. Hocker Charitable Foundation

PI: Kyle Morse, MD
Hospital for Special Surgery
Epidural Steroids to Reduce Opioid Consumption Following Laminectomy
Funding made possible by the Ira A. Roschelle Family Foundation

PI: Tony Shen, MD
Co-PI: Timothy M. Wright, PhD
Co-PI: Douglas Padgett, MD
Hospital for Special Surgery
Effect of Surface Finish on Head-Neck Corrosion in Total Hip Arthroplasty
Funding made possible by Thomas P. Sculco, MD

SHIMOMURA/OREF/INTERNATIONAL SOCIETY OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY (SICOT) TRAVEL AWARDS

Ghanshyambhai Kakadiya, MD
Topiwala National Medical College & BYL Nair Hospital
A Biomechanical Study-Effectiveness of Sublaminar Mersilene Tape Augmented

Amit Lakhani, MD
Dr BR Ambedkar State Institute of Medical Sciences
Ortho Regeneration and Ancient Healing System

OREF RESIDENT RESEARCH PROJECT GRANTS

PI: Matthew Booth, MD
Co-PI: Jeffrey Nepple, MD
Co-PI: John Clohisy, MD
Washington University in St. Louis School of Medicine
Long-Term Periacetabular Osteotomy Radiologic and Patient-Reported Outcomes
Funding Made Possible by Brown University in Memory of Dr. Michael Ehrlich

PI: William Crockett, MD
Co-PI: William Levine, MD
Columbia University Medical Center
Skill Acquisition in Immersive Virtual Reality vs Cadaver Lab
In Honor of Jack C. Hughston, MD and James R. Andrews, MD
Funded by Michael J. Axe, MD and Jeremie M. Axe, MD

PI: Michael Doran, MD
Co-PI: Joshua Rozell, MD
New York University School of Medicine
Losar Use to Mitigate Arthrofibrosis Following Total Joint Arthroplasty
Funding made possible by The American Arthritis Society

PI: Corey Hamilton, MD
Co-PI: Daniel Del Gaizo, MD
Prisma Health-Midlands
Astaxanthin for Pain, Function, and Inflammation in Knee Osteoarthritis
Funding made possible by The American Arthritis Society

ORS/OREF DISTINGUISHED INVESTIGATOR AWARD

Farshid Guilak, PhD
Washington University Medical School in St. Louis
PI: Olivia O’Reilly, MD  
Co-PI: Brendan Patterson, MD, MPH  
The University of Iowa  
*Physical Therapy After Shoulder Arthroplasty: Assessing Telerehabilitation*  
Funding made possible by Dr. Adam and Julie Harris  
in Memory of Eugene Harris, MD

PI: Jonathan Savakus, MD  
Vanderbilt University Medical Center  
The *Acute Phase Response and Femoral Shaft Fractures: When Can I Nail It?*

PI: Quante Singleton, MD  
Co-PI: Michael Kelly, MD, MSc  
Washington University in St. Louis  
*Biologic Age Versus Chronologic Age in ASD: A Prospective Cohort Study*

PI: Favian Su, MD  
Co-PI: Alexis Dang, MD  
Co-PI: Alan Dang, MD  
The Regents of the University of California, San Francisco  
*Effect of Blue and Red Light Phototherapy on Shoulder C. Acnes Colonization*

PI: Vincentius Suhardi, MD  
Co-PI: Mathias Bostrom, MD  
Co-PI: Xu Yang, MD  
Hospital for Special Surgery  
*Role of Leptin Receptor Cells in Aseptic Loosening Membrane Formation*

PI: Ian Wellington, MD  
Co-PI: Augustus Mazzocca, MD, MS  
University of Connecticut Health Center  
The *Impact of Cellular Senescence on Bursal Connective Tissue Progenitors*

PI: Grace Xiong, MD  
Co-PI: Andrew Schoenfeld, MD  
Brigham and Women’s Hospital, Inc  
*Quality of Life and Cost of Spinal Epidural Abscesses*

OREF/JRGOS HEALTH ORTHOPAEDIC DISPARITIES RESIDENT RESEARCH PROJECT GRANTS

PI: Lauren Barber, MD  
Co-PI: Duretti Fuwa, MD  
Hospital for Special Surgery  
The *Impact of Implicit Bias Training on Orthopaedic Surgery Residents*

PI: Risa Reid, MD  
Co-PI: Gabriella Ode, MD  
Carolinas Medical Center  
*Stereotype Threat Among Orthopaedic Residents*

OREF/WOF RESIDENT RESEARCH PROJECT GRANTS

PI: Alejandro Cazzulino, MD  
Co-PI: Ishaan Swarup, MD  
The Regents of the University of California, San Francisco  
*Preoperative Patient Expectations in Adolescent Idiopathic Scoliosis*

PI: Steven Garcia, MD  
Co-PI: Brian Feeley, MD  
The Regents of the University of California, San Francisco  
*Functionally Heterogeneous Human Fibroadipogenic Progenitor Cells*

PI: Sarah Stroud, MD  
Co-PI: Rosanna Wustrack, MD  
The Regents of the University of California, San Francisco  
*Analysis of Pronostic Factors for Adults with Primary Extremity Sarcomas*
REGIONAL NEW INVESTIGATOR AWARDS

EASTERN ORTHOPAEDIC ASSOCIATION
Heather Flynn, MD
Temple University Hospital
Are CT scans Needed for Evaluation of Femoral Gunshot Wounds?

Adam W. Green, MD
University of Massachusetts Medical Center
Outcomes and Patient Satisfaction After TKA Are Not Associated with Implant Manufacturer

Alisina Shahi, MD, PhD
Cooper University Hospital
Synovial Fluid Absolute Neutrophil Count a Promising Marker for Diagnosing Periprosthetic Joint Infection

SOUTHERN ORTHOPAEDIC ASSOCIATION
Brian M. Curtin, MD
OrthoCarolina Hip and Knee Center
Results of I&D for Periprosthetic Knee Infection with Use of Intraosseous Antibiotic

Blaine T. Manning, MD
University of Missouri, Columbia
Physical Therapy on Postoperative Day Zero Following Lumbar Spine Surgery Decreases Length of Stay

Keith G. Whitlock, MD
Duke University
Deltoid Ligament Repair vs. Syndesmotic Fixation for Bimalleolar Equivalent Ankle Fractures

WESTERN ORTHOPAEDIC ASSOCIATION
Loren O. Black, MD, MBA
Oregon Health & Science University
Intramuscular Compartment Pressures Do Not Correlate with Tissue Physiology after Tibia Fracture

Andrew R. Jensen, MD, MBE
University of California, Los Angeles
Anatomic Total Shoulder Arthroplasty for Primary Glenohumeral Osteoarthritis in the Elderly

Vanna Rocchi, DO
Naval Medical Center Portsmouth
PROMIS Assessment in Pediatric Patients with Lower Extremity Deficiency—A Multicenter Study

2021 REGIONAL AND NATIONAL WINNERS

NATIONAL RESIDENT RESEARCH SYMPOSIUM
National Champion
Katherine Gerull, MD
Washington University in St. Louis
Barriers for Medical Students from Non-Stereotypical Identities Considering Orthopedic Surgery Careers: A Qualitative Investigation

TOP SCORING RESIDENTS
Mark T. Langhans, MD
Hospital for Special Surgery
Genetic Risk Factors of Adhesive Capsulitis are Comparable to Traditional Risk Factors

Lasun Oladeji, MD
University of Missouri-Columbia
Validating the Safety of a Hyperosmolar Saline Irrigation Fluid in Arthroscopic Knee Surgery

Vincentius J. Suhardi, MD, PhD
Hospital for Special Surgery
Leptin Receptor Expressing Skeletal Stem Cells Accumulate and Divert to a Fibrogenic Phenotype in Peri-implant Membrane of Patients with Aseptic Loosening

Rishi Trikha, MD
University of California, Los Angeles
Active Rheumatoid Arthritis in a Mouse Model is not an Independent Risk Factor for Periprosthetic Joint Infection

Presenters’ Choice
Alan Shamrock, MD
University of Iowa
ACL Graft Preparation with Vancomycin Has No Effect on Patient-Reported Outcomes, Graft Rupture Rates, and Chondrocyte Viability Following Primary ACL Reconstruction
SOUTHEAST REGION RESIDENT RESEARCH SYMPOSIUM

1ST PLACE AWARD
T. David Luo, MD
Wake Forest School of Medicine
Oral Ascorbic Acid Does Not Reverse Radiation-Induced Bone Loss in a Rat Model of Extremity Soft-Tissue Sarcoma Radiotherapy

SECOND PLACE AWARDS
Luis Felipe Colón, MD
University of Tennessee College of Medicine
Assessing the Risk of Nonunion Associated with the Use of Local Antibiotic Powder in Operatively Treated Tibial Plateau and Pilon Fractures

3RD PLACE AWARDS
Scott Barnett, MD
Louisiana State University – New Orleans
Comparison of Short-leg and Long-leg Casts for the Treatment of Distal Third Tibial Shaft Fractures in Children

Michael Colello, MD
Prisma Health-Upstate
Predicting Pathologic Bone Lesions Using Scout Computed Tomography (CT) Imaging

Daniel E. Goltz, MD
Duke University
A Validated Pre-Operative Risk Prediction Tool for Discharge to Skilled Nursing or Rehabilitation Facility Following Anatomic or Reverse Shoulder Arthroplasty

PRESENTERS’ CHOICE
Corinne Cloud, MD
Louisiana State University – New Orleans
Advantages of an Orthopedic Trauma Room for Diaphyseal Femur Fractures

Patrik Suwak, MD
Louisiana State University – New Orleans
Assessing Vertebral Body Rotation in Minimally Invasive Spine Surgery

NORTHEAST REGION RESIDENT RESEARCH SYMPOSIUM

FIRST PLACE AWARD
Vincentius Jeremy Suhardi, MD, PhD
Hospital for Special Surgery
Leptin Receptor Expressing Skeletal Stem Cells Accumulate and Divert to a Fibrogenic Phenotype in Peri-Implant Membrane of Patients with Aseptic Loosening

SECOND PLACE AWARDS
Mark T. Langhans, MD
Hospital for Special Surgery
Genetic Risk Factors of Adhesive Capsulitis are Comparable to Traditional Risk Factors

THIRD PLACE AWARDS
James Jackson Gregory, MD
Dartmouth Hitchcock Medical Center
Surgical Invasiveness Index: A Novel Approach to Risk-Adjustment in Total Hip Arthroplasty

Brian De Palma, MD
University of Maryland
Assessment of Staphylococcal Clinical Isolates from Periprosthetic Joint Infection for Potential Bacteriophage Therapy

David Kugelman, MD
NYU Langone Health
Comparing Articulating Spacers for Periprosthetic Joint Infection After Primary THA: All-Cement vs Real Component Articulating Spacers

PRESENTERS’ CHOICE
Samir Sabharwal, MD
Johns Hopkins Hospital
Age is Associated with Hypercoagulability in Musculoskeletal Oncology Patients: Analysis of Thromboelastography-Derived Coagulation Profiles
SOUTHWEST REGION
RESIDENT RESEARCH SYMPOSIUM

FIRST PLACE AWARD
Rishi Trikha, MD
University of California, Los Angeles
Active Rheumatoid Arthritis in a Mouse Model is Not an Independent Risk Factor for Periprosthetic Joint Infection

SECOND PLACE AWARDS
Abhinav Sharma, MD
University of California, Irvine
A Simple Hip Spine Classification for Total Hip Replacement—Validation and Large Multi-Center Series

Ryan O'Leary, MD
University of California, San Diego
Surgical Planning Using Standard Preoperative Radiographs is Predictive of Successful Pedicle Screw Placement

THIRD PLACE AWARDS
Ryan Halvorson, MD
University of California, San Francisco
Inter-Observer and Intra-Observer Reliability of Classification Systems for Radiographic Complications After Radial Head Arthroplasty

Todd Heig, MD
Naval Medical Center, San Diego
Pediatric Knee Arthrocentesis: Does Reactive Synovitis Exist in the Knee?

Brendon Mitchell, MD
University of California, San Diego
Classifying Ischial Tuberosity Avulsion Fractures by Ossification Stage and Tendon Attachment

Kevin Taniguchi, MD
Naval Medical Center, San Diego
Predicting Fragility Fracture Using Opportunistic Computed Tomography Scans

PRESENTERS’ CHOICE
Ryan O'Leary, MD
University of California, San Diego
Surgical Planning Using Standard Preoperative Radiographs is Predictive of Successful Pedicle Screw Placement

Kathryn D. Dwight, MD
University of California, San Diego
A Simple and Versatile Test for Elbow Posterolateral Rotatory Instability
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