

# GRANT RECIPIENTS

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## OREF CAREER DEVELOPMENT GRANT

PI: David Shearer, MD  
University of California  
*Pilot RCT to Evaluate Local Gentamicin for Tibia Fractures in Tanzania*

## OREF PROSPECTIVE CLINICAL RESEARCH GRANT

PI: David Greenberg, MD  
St. Louis University  
Co-PI: Benjamin J. Miller, MD  
University of Iowa  
*Local Bisphosphonate Effect on Recurrence Rate in Giant Cell Tumor of Bone*

## OREF CLINICAL RESEARCH AWARD

Braden Fleming, PhD  
Warren Alpert Medical School of Brown University  
*Long-Term Outcomes of ACL Reconstruction Surgery*

## RESEARCH GRANTS

### OREF/ASES/ROCKWOOD CLINICAL RESEARCH GRANT IN SHOULDER CARE

PI: Elizabeth L. Yanik, MD  
Co-PI: Jay Keener, MD  
Washington University in St. Louis  
*Patient Factors Associated with Genetic Markers for Rotator Cuff Disease*  
**Funding made possible by the Dr. and Mrs. Charles  
Rockwood Family Endowment Fund**

### OREF GOLDBERG ARTHRITIS RESEARCH GRANT

PI: Wayne Moschetti, MD  
Co-PI: Samuel T. Kunkel, MD  
Dartmouth-Hitchcock Medical Center  
*Intraoperative Ketamine for Pain Catastrophizing Arthroplasty Patients*  
**Funding made possible by the Dr. Victor and  
Mrs. Harriet Goldberg Endowment Fund**

### OREF TOTAL JOINT REPLACEMENT RESEARCH GRANT IN MEMORY OF JORGE O. GALANTE, MD

PI: Derek Amanatullah, MD  
Stanford University  
*Attacking Biofilm-Associated Persister Cells*

### OREF/THE AIRCAST FOUNDATION (TAF) ORTHOPAEDIC RESEARCH GRANT

PI: Peter Apel, MD, PhD  
Carilion Medical Center  
Co-PI: Miguel Perez, PhD  
Virginia Tech Transportation Institute  
*When Can Patients Safely Drive After Rotator Cuff Repair?*  
**Funding made possible by the The Aircast Foundation**

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

PI: Spencer Szczesny, PhD  
Pennsylvania State University College of Medicine  
*Mechanobiological Deficits in Allograft ACL Reconstructions*  
**Funded by the Musculoskeletal Transplant Foundation Biologics**

## OREF/SRS/POSNA TRANSFORM PRACTICE - SPINAL GROWTH RESEARCH GRANTS

PI: Stuart L. Weinstein, MD (Clinical Grant)  
University of Iowa

*Bracing vs Casting in the Treatment of Idiopathic Early Onset Scoliosis*

**Funding made possible by Dr. John and Mrs. Kim Callaghan, The Scoliosis Research Society, The Pediatric Orthopaedic Society of North America, Medtronic Inc., DePuy Synthes and Zimmer Biomet**

PI: Carol A. Wise, PhD (Basic Science Grant)

Co-PI: Brandon Ramo, MD

Texas Scottish Rite Hospital for Children

*Translating Genomics into Early Onset Scoliosis Clinical Care*

**Funding made possible by Dr. John and Mrs. Kim Callaghan, The Scoliosis Research Society, The Pediatric Orthopaedic Society of North America, Medtronic Inc., DePuy Synthes and Zimmer Biomet**

## OREF GLADDEN ORTHOPAEDIC HEALTH DISPARITIES RESEARCH GRANTS

PI: Vinod Dasa, MD

Co-PI: Jennifer Simkin, PhD

Louisiana State University Health Sciences Center

*Integrating Clinical, Social and Biological Data to Assess TKA Risk*

**Funding made possible by the J. Robert Gladden Orthopaedic Society**

PI: Paul King, MD

Anne Arundel Medical Center

*Improving Postop Outcomes in African American Patients Undergoing TJA*

**Funding made possible by the J. Robert Gladden Orthopaedic Society**

PI: Christopher J. Dy, MD

Washington University in St. Louis

*Moving to Solutions: Understanding and Overcoming Orthopedic Disparities*

**Funding made possible by the J. Robert Gladden Orthopaedic Society**

## OREF NEW INVESTIGATOR RESEARCH GRANT

PI: Zachary Mark Working, MD

Oregon Health and Science University

*Quantification of Fracture Healing Biology Using Novel Collagen X Bioassay*

## OREF MULTIMODAL MUSCULOSKELETAL PERIOPERATIVE PAIN MANAGEMENT GRANT

PI: Jingying Zhang, PhD

University of California, San Francisco

*The Use of Venlafaxine in Reducing Surgical Pain in Total Knee Arthroplasty*

**Funding made possible by the American Association of Nurse Anesthetists (AANA) Foundation and Zimmer Biomet**

## CLINICIAN-SCIENTIST GRANTS

### OREF MENTORED CLINICIAN-SCIENTIST GRANTS

PI: Christopher J. Dy, MD

Washington University in St. Louis

*Understanding Barriers to Delivery of Care for Brachial Plexus Injury*

**Funding made possible by the 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-Arthritic Hip*

**Funded in part by The Aircast Foundation**

PI: Robin Kamal, MD

Stanford University

*Developing and Testing a Tool for Preference Elicitation in CTS*

PI: David Kovacevic, MD

Columbia University Medical Center

*Inflammation in Rotator Cuff Tear and Repair*

**Funding made possible by The Aircast Foundation**

### OREF RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

PI: John Frederick Dankert, MD, PhD

Co-PI: Philipp Leucht, MD, PhD

NYU Langone Health

*Identification of Novel Fracture Healing Regulator*

**Recipient of an MTF/Charles Herndon**

**Resident Clinician Scientist Training Grant**

**Funded by the Musculoskeletal Transplant Foundation Biologics**

PI: Jensen Henry, MD

Co-PI: Scott J. Ellis, MD

Hospital for Special Surgery

*Flatfoot Deformity and Surgical Reconstruction in a Robotic Gait Simulator*

**Funding made possible by Thomas P. Sculco, MD**

PI: Francis Campana Lovecchio, MD

Co-PI: Han Jo Kim, MD

Co-PI: Virginie Lafage, PhD

Hospital for Special Surgery

*Can Bone Turnover Markers Predict Pseudarthrosis after ACDF?*

**In Memory of John T. Hocker, MD**

**Funding made possible by the John T. Hocker Charitable Foundation**

PI: Ajay Premkumar, MD

Hospital for Special Surgery

*The Role of Next Generation Sequencing in Assessing Eradication of PJI*

**Recipient of an MTF/Charles Herndon Resident Clinician Scientist Training Grant**

**Funding made possible the Musculoskeletal Transplant Foundation Biologics**

## RESIDENT RESEARCH PROJECT GRANTS

### OREF RESIDENT RESEARCH PROJECT GRANTS

PI: Matthew Astolfi, MD

Co-PI: Betina B. Hinckel, MD

William Beaumont Hospital

*Patellar Height: Impact of Knee Flexion, Patellar Subluxation and Obliquity*

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

PI: Edward Beck, MD

Co-PI: Kristen Nicholson, PhD

Co-PI: Brian Waterman, MD

Wake Forest Baptist Health

*Blood Flow Restriction Therapy for Shoulder Injuries in Baseball Players*

**Funding made possible by Dr. Adam and Julie Harris  
in memory of Eugene Harris, MD**

PI: Michael Benvenuti, MD

Co-PI: Jonathan Schoenecker, MD

Vanderbilt University Medical Center

*Determining Cell Lineage of Osteoblasts in Posterior Spinal Fusion*

**Spine Research in memory of Harry Herkowitz, MD**

**Funding made possible by Mr. Jim Borovsky and Shepard Hurwitz, MD**

PI: Jessica Block, MD

Co-PI: Joseph Kuechle, MD, PhD

The Research Foundation for The SUNY on behalf of University at Buffalo

*Morphologic Analysis of Large Mount Sections of Osteosarcoma Specimens*

PI: Michael Ewing, MD

Co-PI: Hyunmin Kim, MD

University of Missouri-Columbia

*Interscalene Block vs. Local Infiltrative Analgesia*

**Funding made possible by the American Arthritis Society**

PI: Brittany Haws, MD

Co-PI: Danielle Denoit, PhD

University of Rochester

*Bone Targeted Drug Delivery for Fracture Healing in a Murine Nonunion Model*

PI: Justin Hellwinkle, MD

Co-PI: Clark Hung, PhD

Columbia University

*TMAO to Enhance Chondrocyte Allograft Viability*

PI: Kyle Miller, MD

Co-PI: Kenneth Noonan, MD

Co-PI: Christopher Brace, PhD

University of Wisconsin-Madison

*Microwave Ablation of the Proximal Tibial Physis-A Porcine Study*

PI: Ankur S. Narain, MD

Co-PI: Marci D. Jones, MD

University of Massachusetts Medical School

*Rebound Pain After Peripheral Nerve Blockade in Orthopedic Procedures*

**In memory of Joseph Seaton Barr, MD**

**Funding made possible by Joseph S. Barr Jr., MD**

PI: Alan Reynolds, MD

Co-PI: Mark Miller, MD

Allegheny-Singer Research Institute D/B/A AHN Research Institute

*Biomechanical Validation of Shear Wave Elastography of the UCL*

**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: Corey Schiffman, MD

Co-PI: Jason Hsu, MD

University of Washington

*Association Between Serum Testosterone & C. Acnes in Shoulder Arthroplasty*

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

PI: John Stivers, MD

Co-PI: Lori Setton, PhD

Co-PI: Michael Kelly, MD

Washington University in St. Louis School of Medicine

*DRG Imaging in Vivo in a Rodent Model of Intervertebral Disc Degeneration*

PI: Andrea Tian, MD

Washington University in St. Louis

*Caregiver Concerns in New Congenital Upper Extremity Anomalies*

**Funding made possible by Brown University in Memory of Dr. Michael Ehrlich**

### OREF/JRGOS ORTHOPAEDIC DISPARITIES RESIDENT RESEARCH PROJECT GRANT

PI: Lee Haruno, MD

Co-PI: Selina Poon, MD

Cedars-Sinai Medical Center

*The Impact of Faculty and Resident Diversity on Resident Attrition*

### OREF/WOF RESIDENT RESEARCH PROJECT GRANTS

PI: Garwin Chin, MD

University of California Irvine Medical Center

*Does Cannabinoid Therapy Reduce Opioid Consumption After Fracture Surgery?*

PI: Aditya Manoharan, MD

Co-PI: Michael Feldman, MD

Arizona Board of Regents, University of Arizona

*Accuracy of Arthroscopic vs Open Reduction of Ankle Syndesmosis Injuries*

PI: James Rizkalla, MD

Co-PI: Ishaq Syed, MD

Baylor Health Care System Foundation

*Effect of Lumbar Erector Spinae Plane Blocks on Post-Op Opioid Consumption*



## OREF/CURRENT CONCEPTS IN JOINT REPLACEMENT CLINICAL PRACTICE AWARD

### SPRING AWARD

Nicolas Piuizzi, MD  
Cleveland Clinic Foundation  
*Developing a Personalized Outcome Prediction Tool for Knee Arthroplasty*

## ORS/OREF DISTINGUISHED INVESTIGATOR AWARD

Joshua J. Jacobs, MD  
Rush University Medical Center

## ORS/OREF TRAVEL AWARDS IN ORTHOPAEDIC RESEARCH TRANSLATION

Srikanth Divi, MD  
Rothman Institute/Thomas Jefferson University Hospital  
*Downregulation of Circulating Mir-155 Predicts Progression of Disc Degeneration and Also Correlates with Increased Leg Pain*

William Hambright, PhD  
Steadman Philippon Research Institute  
*Acute Fisetin Treatment Attenuates Age-Associated Bone Density Loss in the Zmpste23<sup>-/-</sup> Progeria Mouse Model*

Alexander Lazarides, PhD  
Duke University Medical Center  
*A Cross-Species Personalized Medicine Pipeline Identifies The CRM1 Export Pathway As a Potentially Novel Treatment for Osteosarcoma*

Ichiro Okano, MD  
Hospital for Special Surgery  
*Early Changes in Bone Mineral Density Measured By QCT After Anterior Cervical Spine Surgery*

Rachel Silverstein, MD  
Westchester Medical Center  
*5-Year Follow-Up Data for Cementless Total Knee Arthroplasty Patients*

Holly Stewart, VMD  
Colorado State University  
*Evaluation of an Experimental Model of Bone Marrow Lesions Using the Ovine Femoral Condyle*

Matthew Vopat, MD  
University of Kansas Medical Center  
*Return to Sport After Primary Lateral Ligament Repair Versus Suture Tape Augmentation: Meta-Analysis and Systematic Review*