



Grants Awarded

• 2019/2020 •

2019 RECIPIENTS

OREF CAREER DEVELOPMENT GRANT

PI: Paul E. Matuszewski, MD
Co-PI: Brian Noehren, PhD
University of Kentucky
Predictors of Persistent Pain and Performance in Patients with Fractures

OREF PROSPECTIVE CLINICAL RESEARCH AWARD

PI: Thomas Kremen, MD
University of California, Los Angeles
Biologic Therapy to Prevent Osteoarthritis After ACL Injury

OREF CLINICAL RESEARCH AWARD

L. Andrew Koman, MD
Wake Forest University School of Medicine
Musculoskeletal Uses of Botulinum Toxins: A 30-Year Translational Journey at Wake Forest School of Medicine

RESEARCH GRANTS

OREF/ASES/ROCKWOOD CLINICAL RESEARCH GRANT IN SHOULDER CARE

PI: John G. Horneff III, MD
Co-PI: Joseph A. Abboud, MD
The Rothman Institute
Photodynamic Therapy for C. Acnes Decolonization of the Shoulder Dermis

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

OREF TREATMENT OF KNEE OSTEOARTHRITIS RESEARCH GRANT IN HONOR OF THE KNEE SOCIETY

PI: Nicolas Piuizzi, MD
Cleveland Clinic Foundation
Personalized Outcome Prediction Tool for Total Knee Arthroplasty

Funding made possible by Peter Walker, PhD

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

PI: Jason Zaremski, MD
University of Florida, Gainesville
Development of a Protocol to Evaluate Baseball Pitcher's Workload

OREF/STRYKER ROBOTIC-ASSISTED TOTAL HIP REPLACEMENT CLINICAL RESEARCH GRANT

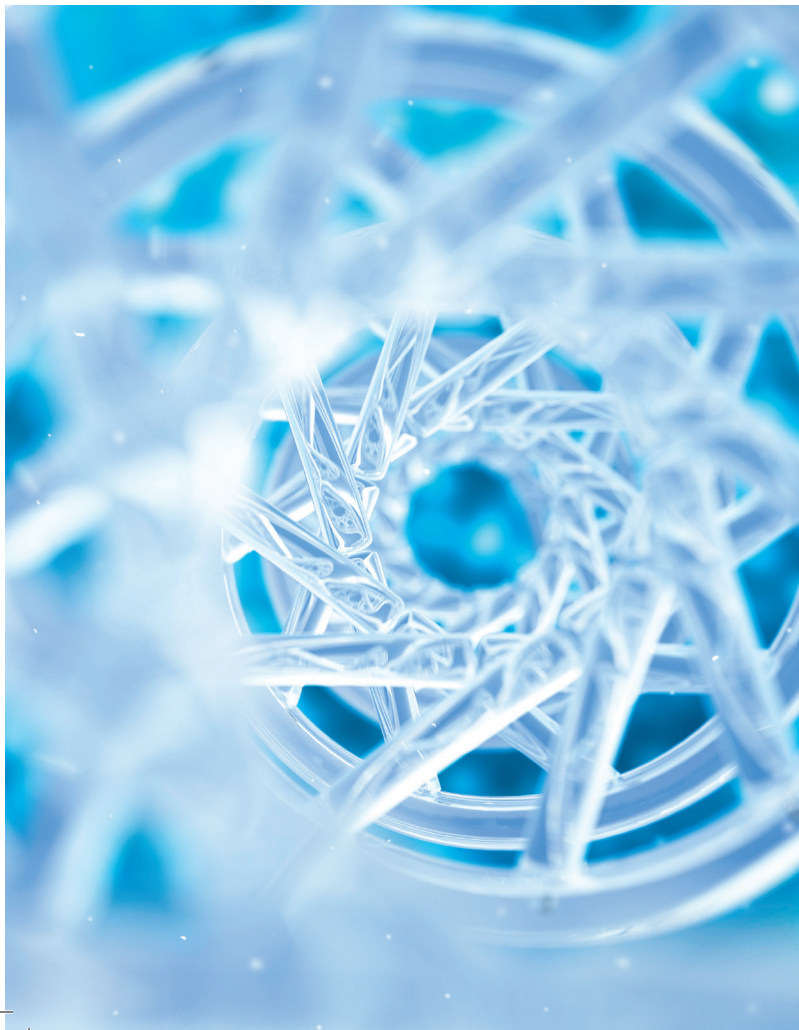
PI: Ran Schwarzkopf, MD
NYU Langone Medical Center
Targeting the Functional Safe-Zone with Robotic-Assisted THA

Funding made possible by Stryker Orthopaedics

OREF TOTAL ANKLE REPLACEMENT RESEARCH GRANT

PI: Constantine Demetracopoulos, MD
Co-PI: Timothy M. Wright, MD
The Hospital for Special Surgery
Mechanics of the Ankle and Adjacent Joints after Total Ankle Replacement

Funding made possible by Wright Medical Technology, Inc.



OREF IMPACT OF REGULATORY POLICIES ON PATIENT-PHYSICIAN RELATIONSHIP RESEARCH GRANT IN HONOR OF SIGVARD HANSEN, MD

PI: Todd Kelley, MD
University of Cincinnati, Adult Reconstruction Division
Assessing Effects of EMR on Physician Well-Being Using Smartphone Sensing

Funding made possible in part by DePuy Synthes Companies of Johnson & Johnson

OREF/MTF RESEARCH GRANT

PI: Chathuraka Jayasuriya, PhD
Co-PI: Brett Owens, MD
Rhode Island Hospital
Implementing Allogeneic Stem Cells from Cartilage Graft in Meniscus Repair

Funded by Musculoskeletal Transplant Foundation Biologics

OREF/GOLDBERG ARTHRITIS RESEARCH GRANT

PI: Brian Klatt, MD
University of Pittsburgh
Bilateral Knee Kinematics in High and Low-Functioning Patients After TKA

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

ABOS/OREF SIMULATION RESEARCH GRANT

PI: James F. Kellam, MD
Co-PI: Catherine G. Ambrose, PhD
The University of Texas Health Science Center at Houston
Fracture Fixation Training Using a Hybrid Simulator with Data Visualization

Funded by the American Board of Orthopaedic Surgery

OREF HIP AND KNEE RESEARCH GRANT

In collaboration with the American Association of Hip and Knee Surgeons, The Hip Society and The Knee Society

PI: Young-Min Kwon, MD, PhD
Co-PI: Marco Laggio, PhD
Massachusetts General Hospital
The Role of Brain Glial Activation in Persistent Pain Following TKA

Funding made possible by Zimmer Biomet

OREF/GLADDEN ORTHOPAEDIC HEALTH DISPARITIES RESEARCH GRANT

PI: Muyibat Adelani, MD
Washington University School of Medicine, St. Louis
Connecting Community Context to Racial Disparities in Joint Replacement

Funding made possible by the J. Robert Gladden Orthopaedic Society

OREF/OTA TRAUMA GRANT

PI: Prism Schneider, MD, PhD
The University of Calgary
Hypercoagulability After Hip Fracture as Determined by Thrombelastography

With funding provided by the Orthopaedic Trauma Association, DePuy Synthes and Zimmer Biomet

THE TOTAL JOINT REPLACEMENT RESEARCH GRANT IN HONOR OF JORGE O. GALANTE, MD

PI: Thorsten M. Seyler, MD
Duke University Medical Center
Perioperative Antibiotic Prophylaxis in Patients Undergoing Elective TJA

THE TREATMENT OF KNEE OSTEOARTHRITIS RESEARCH GRANT

PI: Lutul D. Farrow, MD
Co-PI: John Elias, PhD
Cleveland Clinic Foundation
Characterizing Cartilage Degradation Caused by Patellar Instability

OREF SOFT TISSUE REPAIR AND REGENERATION SPORTS MEDICINE GRANT IN HONOR OF RUSSELL F. WARREN, MD

In collaboration with the American Orthopaedic Society for Sports Medicine (AOSSM)

PI: Natalie L. Leong, MD
Co-PI: Jia Jang, PhD
University of Maryland at Baltimore
Therapeutic Application of Perivascular Stem Cells to Rotator Cuff Repair

OREF PEDIATRIC RESEARCH GRANT

PI: Todd Milbrandt, MD
Co-PI: A. Noelle Larson, MD
Mayo Clinic - Rochester
Prospective Study of Vertebral Tethering vs. Fusion for Scoliosis

OREF/AIRCAST FOUNDATION ORTHOPAEDIC RESEARCH GRANT

PI: John W. Xerogeanes, MD
Emory University
Are Opioids Needed?

OREF NEW INVESTIGATOR GRANT

PI: Alexander Aleem, MD
Co-PI: Muhammad Farooq Rai, PhD
Washington University School of Medicine in St. Louis
Understanding the Molecular Biology of Shoulder Joint Degeneration



CLINICIAN-SCIENTIST GRANTS

OREF MENTORED CLINICIAN-SCIENTIST GRANT

PI: David Kovacevic, MD
Columbia University Medical Center
Inflammation of Rotator Cuff Tear and Repair

FRIEDENBERG CLINICIAN-SCIENTIST GRANT

PI: Robin Kamal, MD
Stanford University
Developing and Testing a Tool for Preference Elicitation in Carpal Tunnel

Funded by the Zachary B. and Mrs. Kathleen Friedenbergs Endowment Fund

RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

PI: Kelsey Bonilla, MD
University of Pennsylvania
Achilles Tendon Response to Varying Degrees of Exercise Intensity

Funding made possible by the Ira A. Roschelle Family Foundation

PI: Jarred Bressner, MD
Co-PI: Adam Levin, MD
Johns Hopkins University

Topology Optimization of Hip Implants to Reduce Stress Shielding

Funding made possible by the Ira A. Roschelle Family Foundation

PI: Daniel Buchalter, MD
Co-PI: Philipp Leucht, MD, PhD
Co-PI: Sanjit R. Konda, MD
New York University School of Medicine
GIK in Preventing Musculoskeletal Injury After Trauma

Funding made possible by Thomas P. Sculco, MD

PI: Connor Delman, MD
Co-PI: Maury L. Hull, PhD
The Regents University of California, Davis
Analysis of Tibial Contact in Kinematically Aligned TKA in Three Implants

Recipients of an MTF/Charles H. Herndon
Resident Clinician Scientist Training Grant

Funding made possible by Musculoskeletal Transplant Foundation Biologics

PI: Ryan C. Rauck, MD
Co-PI: Lawrence B. Gulotta, MD
Co-PI: Samuel Taylor, MD
The Hospital for Special Surgery
The Role of the Long Head of the Biceps Tendon in Shoulder Stabilization

Recipients of an MTF/Charles H. Herndon
Resident Clinician Scientist Training Grant

Funding made possible by Musculoskeletal Transplant Foundation Biologics

PI: Andrew Zogby, MD
Co-PI: Samuel Ward, MD
University of California, San Diego
A Novel Treatment Strategy for Chronic Rotator Cuff Tears

In Memory of John T. Hocker, MD

Funding made possible by the John T. Hocker Charitable Foundation

RESIDENT RESEARCH PROJECT GRANTS

OREF RESIDENT RESEARCH PROJECT GRANTS

PI: Daniel Bohl, MD
Co-PI: Kamran Hamid, MD
Rush University Medical Center
RCT of Dilute Betadine Soak and Scrub for Foot and Ankle Surgery

PI: Kathleen Keely Boyle, MD
Co-PI: Thomas Duquin, MD
The Research Foundation for The SUNY on behalf of University at Buffalo
Blue Light Reduces Cutibacterium (Propionibacterium) Acnes Bacterial Burden

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

PI: Peter Chang, MD
Co-PI: David Brogan, MD
Washington University in St. Louis
In Vivo Analysis of 3D Printed Peripheral Nerve Conduits

PI: Danielle Chun, MD
Co-PI: Erin Hsu, MD
Northwestern University
A Multimodal Nanofiber Scaffold to Improve Bone Healing in Smokers

PI: Guang-Ting Cong, MD
Co-PI: Matthew Cunningham, MD, PhD
The Hospital for Special Surgery
Nutritional Sustenance and Waste Scavenging in Bone Grafting

Funding made possible by R. Michael Meneghini, MD

PI: Ryan Cox, MD
Co-PI: Daniel Davis, MD
Thomas Jefferson University, Rothman Institute
Hypertonic Saline and Postoperative Pain After Rotator Cuff Repair

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

PI: Dana Cruz, MD
Co-PI: Eric Gokcen, MD
Temple University of the Commonwealth System of Higher Education
A Simple Test to Determine Ability to Drive After RLE Surgery

Funding provided in part by Conformis, Inc.

PI: Michael Davies, MD
CO-PI: Brian Feeley, MD
University of California, San Francisco
Characterizing Human FAPs to Decrease Fatty Infiltration of Rotator Cuff

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: Clayton Del Prince, MD
Co-PI: Melissa Kluczynski, MS, BS
Co-PI: Leslie Bisson, MD
The Research Foundation for The SUNY on behalf of University at Buffalo
Impact of Standardized Opiate Prescribing on Number of Pills Prescribed

PI: Gregory F. Elia, MD
Co-PI: Arnold-Peter Weiss, MD
Rhode Island Hospital
Initial Metacarpal Stability Following Thumb Carpometacarpal Arthroplasty

PI: Neill Li, MD
Co-PI: Chathuraka Jayasuriya, PhD
Rhode Island Hospital
Promoting Cartilage Regeneration Through DLX5 Modification of CPCs

PI: Michelle Mo, MD
Co-PI: Scott Luhmann, MD
Washington University in St. Louis School of Medicine
The Use of Biomarkers in Pediatric Musculoskeletal Infections

PI: Jeffrey Olson, MD
Co-PI: Edward Rodriguez, MD
Beth Israel Deaconess Medical Center-Orthopaedics
Biomechanical Testing of Proximal Humerus Fixation: A Novel Approach

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

PI: Andrew Schneider, MD
Co-PI: John Callaci, PhD
Loyola University Chicago, Health Sciences Division
Biomechanical and Histologic Effects of Ethanol on Rat Rotator Cuff Repair

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

PI: Michael Stevens, MD
Co-PI: Brandon Collofello, MD
Co-PI: Vince Prusick, MD
University of Kentucky Research Foundation
The Role of Blade Wear and Cure Time in the Prevention of Cast Saw Injuries

OREF/AIRCAST FOUNDATION RESIDENT RESEARCH PROJECT GRANTS

PI: Matthew Christie, MD
Co-PI: Elie Ghanem, MD
The University of Alabama at Birmingham
Biofilm Growth on Cerclage Materials: Are Nonmetallic Polymers Superior?

PI: Christina Hajewski, MD
Co-PI: John E. Femino, MD
University of Iowa
The Utility of Deltoid Ligament Reconstruction in Syndesmotic Injuries

PI: Ian Hutchinson, MD
Co-PI: Joseph Zimmerman, MD
Albany Medical College
Preoperative Phototherapy with Benzyl Peroxide to Decrease P Acnes Burden

PI: Alexander E. Loeb, MD
Co-PI: Paul Khanuja, MD
Johns Hopkins University
Enhanced Recovery After Surgery Program for Geriatric Fragility Fractures

PI: Ayoosh Pareek, MD
Co-PI: Christopher Camp, MD
Mayo Clinic
Baseball Statistics for Assessing Return to Play in Pitchers

PI: Heather Roberts, MD
The Regents of the University of California, San Francisco
Epidemiology, Outcomes and Cost of Revision Total Hip and Knee Arthroplasty

OREF/EXACTECH RESIDENT RESEARCH PROJECT GRANTS

PI: Keith Aziz, MD
Co-PI: Aviram Giladi, MD
Co-PI: Kenneth Means, MD
MedStar Health Research Institute
The Effect of Skin Pigmentation on Evaluation of Distal Limb Ischemia

PI: Matthew Counihan, MD
The Trustees of the University of Pennsylvania
Limited Scar Resection for Chronic Achilles Repair: Use of a Rat Model

PI: Lynn Ann Forrester, MD
Co-PI: Stavros Thomopoulos, PhD
Columbia University Medical Center
Early Osteoarthritis After Neonatal Brachial Plexus Palsy

PI: Christopher Kowalski, MD
Co-PI: Hyun-Min Kim, MD
Pennsylvania State University College of Medicine
Shoulder Immobilization Following Reverse Total Shoulder Arthroplasty

PI: Peter Shaughnessy, MD
Co-PI: John-Erik Bell, MD
Dartmouth-Hitchcock Clinic
Off Axis Loading and Articulation in the Loosening of Cemented Glenoids

OREF/JRGOS ORTHOPAEDIC DISPARITIES RESIDENT RESEARCH PROJECT GRANTS

PI: Blake Montgomery, MD
Co-PI: Kali Rose Tileston, MD
Stanford University
Healthcare Disparities in Pediatric Fracture Care

Funding made possible by the J. Robert Gladden Orthopaedic Society

PI: Asa West Shanekel, MD
Co-PI: C. Lowry Barnes, MD
University of Arkansas for Medical Sciences
Addressing Disparities in Total Knee Arthroplasty Through Patient Education

Funding made possible by the J. Robert Gladden Orthopaedic Society

OREF/WOF RESIDENT RESEARCH PROJECT GRANTS

PI: David Falgout, MD
Arizona Board of Regents, University of Arizona
Recovery from Ciprofloxacin Induced Tendinopathy

PI: Peter Hsiue, MD
Co-PI: Nicholas Bernthal, MD
Co-PI: Michael Yeaman, PhD
The Regents of the University of California, Los Angeles
Macrophage Priming and Adoptive Transfers in Orthopaedic Implant Infections

PI: Chad Ishmael, MD
Co-PI: Nicholas Bernthal, MD
The Regents of the University of California, Los Angeles
The Promise of Photodynamic Therapy (PDT) for Implant Infection

OREF/CURRENT CONCEPTS IN JOINT REPLACEMENT CLINICAL PRACTICE AWARDS

Spring Award

Christopher Dy, MD
Washington University in St. Louis
Two State Comparison of Total Joint Arthroplasty After Medicaid Expansion

Funding made possible by A. Seth Greenwald, D.Phil(Oxon)

Winter Award

Cindy Nahhas, BS
Rush University Medical Center
Randomized Trial of Static and Articulating Spacers for The Infected TKA

Funding made possible by A. Seth Greenwald, D.Phil(Oxon)

ORS/OREF DISTINGUISHED INVESTIGATOR AWARD

Alan Grodzinsky, PhD
Massachusetts Institute of Technology (MIT) Biological Engineering

OREF/INTERNATIONAL SOCIETY OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY TRAVEL AWARDS

HossamElden Abodonia, MD
Kafr Eldawar General Hospital
Scaphocapitate Fusion for Kienbock's Disease

Lin Cong, MD
The First Affiliated Hospital, China Medical University
Minimally Invasive Treatment of Adolescent Idiopathic Scoliosis

REGIONAL NEW INVESTIGATOR AWARDS

EASTERN ORTHOPAEDIC ASSOCIATION

Alex Gu, BS
George Washington School of Medicine and Health Sciences
Operative Time Greater than 120 minutes is Associated with Increased Pulmonary and Thromboembolic Complications Following Revision Total Hip Arthroplasty

Ludovico Lucenti, MD
Rothman Orthopedics
A Comparison of Screw Placement Utilizing an Antegrade vs a Retrograde Technique for Fixation of Scaphoid Waist Fractures

Mohamed Salar, MD
University of Florida Health Jacksonville
Infections Associated with Temporary External Fixation

SOUTHERN ORTHOPAEDIC ASSOCIATION

Keith Aziz, MD
Johns Hopkins Orthopedics
Missing Data: How it Affects the Identification of Risk Factors for Shoulder Surgery Complications

Jonathan B. Goodloe, MD
Medical University of South Carolina
Variability in Opioid Administration After Fixation of Supracondylar Humerus Fractures

Sophia A. Traven, MD
Medical University of South Carolina
Elevated BMI Predicts Concurrent Surgical Pathology at the Time of Pediatric ACL

WESTERN ORTHOPAEDIC ASSOCIATION

Ryland Kagan, MD
Oregon Health & Science University
Mean 10-year Survivorship, Patient-Reported Outcomes and Satisfaction of a Fixed-Bearing Unicompartmental Knee Arthroplasty

Carol Lin, MD, MA
Cedars-Sinai Medical Center
Implementing a Geriatric Fracture Program in a Pluralistic Environment

Zachary C. Lum, DO
University of California, Davis Medical Center
Females and Long Spinal Fusions Result in Total Hip Arthroplasty





Grants Awarded 2020 RECIPIENTS

As of 3/1/2020



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, PhD
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. & Mrs. Charles Rockwood Family Endowment Fund

OREF/GOLDBERG ARTHRITIS RESEARCH GRANT

PI: Wayne Moschetti, MD
Co-PI: Samuel 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, PhD
Stanford University
Attacking Biofilm-Associated Persister Cells

OREF/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 Aircast Foundation

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^{-/-} 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

OREF GRANT PROGRAM VOLUNTEERS

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Wakenda K. Tyler, MD, MPH
Emily Wagstrom, MD
Erik A. Wikstrom, PhD
Danielle Wilbur, MD
Xiaojun Yu, PhD

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