



Grants Awarded

- 2018 First-Round Funding
- 2017 Total Funding

OREF 2018 FUNDED GRANTS AND AWARDS

OREF CAREER DEVELOPMENT GRANT

PI: Robert Brophy, MD
Co-PI: Muhammad Farooq Rai, PhD
Washington University in St. Louis
Can Early Evidence of OA After ACL Injury be Measured and Modified?

OREF PROSPECTIVE CLINICAL RESEARCH GRANT

PI: Amy Morgan Cizik, PhD
Co-PI: Conor P. Kleweno, MD
University of Washington
Validation of PROMs in Trauma Patients with Pelvic and Acetabular Fractures

OREF CLINICAL RESEARCH AWARD

Gregory B. Maletis, MD
Kaiser Permanente
Optimizing Anterior Cruciate Ligament Reconstruction: Individualizing the Decision-Making Process Using Data from the Kaiser Permanente ACLR Registry

RESEARCH GRANTS

OREF/MTF RESEARCH GRANT

PI: Amy L. McNulty, PhD
Co-PI: William Garrett, MD
Duke University
Improving Meniscus Repair Using a Meniscus-Derived Matrix Allograft

OREF GOLDBERG RESEARCH GRANT IN ARTHRITIS

PI: Cecilia Pascual Garrido, MD
Co-PI: Robert Brophy, MD
Washington University in St. Louis
Intra-articular Metabolic Activity in the Pre-Osteoarthritic Hip

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

OREF ASES ROCKWOOD CLINICAL RESEARCH GRANT IN SHOULDER CARE

PI: Aaron Nauth, MD
Co-PI: Patrick Henry, MD
St. Michael's Hospital, Toronto
The Impact of Psychological Factors on the Outcome of Rotator Cuff Repair

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

OREF MENTORED CLINICIAN SCIENTIST GRANT

Kenneth L. Urish, MD, PhD
University of Pittsburgh
Periprosthetic Joint Infection Biofilm Antibiotic Tolerance

ORS/OREF POST-DOCTORAL FELLOWSHIP GRANT

Katie Trella Sikes, PhD
Colorado State University
Understanding the Role of Glucose and Myoinositol in Tendinopathy

NEW INVESTIGATOR GRANT

Derek Amanatullah, MD, PhD
Stanford University
Bacteriophage: A Novel Approach to Periprosthetic Joint Infection

RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

Michael Chau, MD, PhD
University of Minnesota – Twin Cities
Microenvironmental Influences on Articular Chondrocyte Differentiation

PI: Andrew Clair, MD
Co-PI: Kirk A. Campbell, MD
NYU Hospital for Joint Diseases
CRLF1 and Mesenchymal Stem Cell Injection in a Rabbit Osteochondral Defect

PI: Caleb Grote, MD
Co-PI: Jinxi Wang, MD
University of Kansas – Kansas City
Effect of Cartilage-specific NFAT1 Expression on Post-Traumatic Arthritis

PI: Derek Guo Ju, MD
Co-PI: Hyun Bae, MD
Cedars-Sinai Medical Center
Identifying and Mitigating the Effects of Diabetes on Disc Degeneration

PI: Joseph D. Lamplot, MD
Co-PI: Robert Brophy, MD
Washington University in St. Louis
Gene Expression of Medial Meniscus Tears and Development of Osteoarthritis

Steven Orr, MD
Hospital for Special Surgery
Novel Radiographic Views of the Scaphotrapezial Joint

RESIDENT RESEARCH PROJECT GRANTS

OREF RESIDENT RESEARCH PROJECT GRANT

Justin Stull, MD
Thomas Jefferson University, Rothman Institute
Prevention of P. Acnes with Hydrogen Peroxide Prep for Shoulder Surgery

In Honor of Bernard R. Bach Jr., MD

OREF/AIRCAST FOUNDATION RESIDENT RESEARCH PROJECT GRANTS

Daniel Austin, MD
Dartmouth College
An In Vitro Study of the Wear Characteristics of Polyethylene on Bone

Rich Rames, MD
Washington University in St. Louis
Long-Term Results and Incidence of Osteolysis of Young THA Patients

OREF/EXACTECH RESIDENT RESEARCH PROJECT GRANTS

Matthew Conti, MD
Hospital for Special Surgery
Effect of Medial Procedures on Reconstruction of the Adolescent Flatfoot

Elizabeth Harkin, MD
Loyola University Chicago
Functional Outcomes of Pediatric Both Bone Fractures

OREF/UCONN FOUNDERS ENDOWMENT RESIDENT RESEARCH PROJECT GRANT

Cameron Kia, MD
University of Connecticut
Intra-Articular Ketorolac vs Corticosteroid and Hyaluronic Acid for Knee OA

OREF/WOF RESIDENT RESEARCH PROJECT GRANT

Caitlin Rugg, MD
University of California, San Francisco
The Impact of Early Sport Specialization on the Collegiate Athlete

ORS/OREF TRAVEL AWARDS IN ORTHOPAEDIC RESEARCH TRANSLATION

Mengcun Chen, MD
University of Pennsylvania

Shohei Higuchi, MD
Dokkyo University, Koshigaya Hospital

Tsuyoshi Iida, MD
Keio University School of Medicine

Muhammad Johan, MD
Hiroshima University

Munekazu Kanemitsu, MD
Hiroshima University

Mai Katakura, MD
Tokyo Medical and Dental University

Masahiro Maruyama, MD
Stanford University

Kanto Nagai, MD
University of Pittsburgh

Takashi Ohnishi, MD
Hokkaido University

Tomohiro Shimizu, MD
University of California, San Francisco

Shinji Takahashi, MD
Osaka City University

Takeru Tsujimoto, MD
Hokkaido University

Susumu Wada, MD
Hospital for Special Surgery

Kohei Yabuno, MD
Rinku General Medical Center

Stefan Zwingenberger, MD
University Medicine Carl Gustav Carus Dresden

OREF 2017 FUNDED GRANTS AND AWARDS

OREF CAREER DEVELOPMENT GRANT

PI: Michael Willey, MD

Co-PI: Jessica Goetz, PhD

University of Iowa

Joint Contact Stress as a Tool for Clinical Decision Making in PAO

Funding made possible in part by the Dr. Dane and Mrs. Mary Louise Miller Endowment Fund & the Dr. Zachary B. and Mrs. Kathleen Friedenberg Endowment Fund

OREF PROSPECTIVE CLINICAL RESEARCH GRANT

PI: Andrew Schoenfeld, MD

Co-PI: Marco Ferrone, MD

Brigham and Women's Hospital

Validation of a Novel Predictive Score for Patients with Spinal Metastases

OREF CLINICAL RESEARCH AWARD

Henrik Malchau, MD, PhD

Sahlgrenska University Hospital

Arthroplasty Implant Registries Over the Past Five Decades:

Development, Current and Future Impact

RESEARCH GRANTS

OREF/MTF RESEARCH GRANT

PI: Roman Eliseev, MD, PhD

Co-PI: Addisu Mesfin, MD

University of Rochester

Improving Mitochondrial Function to Accelerate Bone Graft Healing

OREF/GOLDBERG RESEARCH GRANT IN ARTHRITIS

PI: Eric Smith, MD

Co-PI: Elise Morgan, PhD

Boston University

The Mechanistic Role of Subchondral Bone Cysts and Bone Marrow Lesions

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

OREF/OTA TRAUMA RESEARCH GRANT

Philipp Leucht, MD

New York University

The Role of Aging and Inflammation on Skeletal Stem Cell Function

Funding made possible in part by Zimmer Biomet, DePuy Synthes and the Society of Military Orthopaedic Surgeons (SOMOS)

OREF/ASES/ROCKWOOD CLINICAL RESEARCH GRANT IN SHOULDER CARE

PI: Aaron Chamberlain, MD

Co-PI: Jay Keener

Washington University in St. Louis

Co-PI: Peter Chalmers, MD

Co-PI: Robert Tashjian,

University of Utah

PT versus a Home Program for Reverse Shoulder Arthroplasty: A Randomized Trial

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

OREF/MSTS CLINICAL RESEARCH GRANT IN ORTHOPAEDIC ONCOLOGY

PI: Benjamin J. Miller, MD

Co-PI: Eric Henderson, MD

University of Iowa

Improving Multi-Institutional Collaboration by Creating a Sarcoma Registry

Funding in part provided by Carol Morris, MD

OREF PERIOPERATIVE SURGICAL AND MEDICAL HOME PATIENT SAFETY RESEARCH GRANT

Alexander McLawhorn, MD and

Meghan Kirksey, MD, PhD

Hospital for Special Surgery

Effect of Operative Team Consistency on Patient Safety and Efficiency

Funding made possible by The American Society of Anesthesiologists; The Foundation for Anesthesia Education and Research; The Anesthesia Patient Safety Foundation; The American Academy of Orthopaedic Surgeons; The Cigna Foundation and Individual Donors

STRYKER ROBOTIC-ASSISTED SURGERY FOR PRIMARY TOTAL KNEE ARTHROPLASTY PROSPECTIVE CLINICAL RESEARCH GRANT

Matthew P. Abdel, MD

Mayo Clinic

Robotically Assisted vs Manual-Executed Total Knee Arthroplasty

OREF MENTORED CLINICIAN SCIENTIST GRANT

Nicholas Bernthal, MD

University of California, Los Angeles

Modifying and Delivering Antimicrobials to Prevent Implant Infections

ORS/OREF POST-DOCTORAL FELLOWSHIP GRANT

Neha Shashank Dole, PhD
University of California, San Francisco
The Role of TGF β in Regulating Perilacunar Remodeling in Diabetes

OREF NEW INVESTIGATOR GRANTS

Patrick Curran, MD
University of California, San Francisco
Intramedullary K-wire versus Flexible Nail for Pediatric Femur Fractures

Funding made possible by the Mahendra Patel, MD Research Fund

Rowena McBeath, MD, PhD
Thomas Jefferson University
Time-Dependent Connective Tissue Regeneration

In Honor of Jack C. Hughston, MD and James R. Andrews, MD

Funding made possible by the Mahendra Patel, MD Research Fund & Michael Axe, MD

RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

OREF RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

Adnan N. Cheema, MD
University of Pennsylvania
The Effect of Nicotine on Healing in a Rat Achilles Tendon Model

Funding made possible by Thomas P. Sculco, MD

PI: Charles Hannon, MD
Co-PI: Brian Cole, MD
Rush University Medical Center
The Influence of Amniotic Membrane and BMAC on Osteoarthritis

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

Funding made possible by the Musculoskeletal Transplant Foundation

Alexander Jinnah, MD
Wake Forest University
The Healing Potential of a Decellularized, Deoxidized Porcine Bone Scaffold

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

Funding made possible by the Musculoskeletal Transplant Foundation

PI: Devon Nixon, MD
Co-PI: Jeffrey Nepple, MD
Washington University in St. Louis
Prospective Study of Biomarkers of Intra-Articular Hip Damage in SCFE

Funding made possible by the Ira A. Roschelle Family Foundation

Alexander Rascoe, MD
Case Western Reserve University
The Role of Macrophage Toll-Like Receptors in Particle-Induced Osteolysis

In Memory of John T. Hocker, MD

Funding made possible by the John T. Hocker Charitable Foundation

PI: Dean Wang, MD
Co-PI: Scott Rodeo, MD
Hospital for Special Surgery
Use of Activated Endothelial Cells for the Treatment of Patellar Tendinosis

Funding made possible by the Ira A. Roschelle Family Foundation

OREF/UCONN FOUNDERS ENDOWMENT RESIDENT CLINICIAN SCIENTIST TRAINING GRANT

Megan R. Wolf, MD
University of Connecticut
Novel Source for Cell Augmentation of Murine Patellar Tendon Defect

RESIDENT RESEARCH PROJECT GRANTS

OREF RESIDENT RESEARCH PROJECT GRANTS

Claire Eliasberg, MD
Hospital for Special Surgery
Evaluating Inflammatory Markers in a Mouse Model of Shoulder Impingement

In Honor of Jack C. Hughston, MD and James R. Andrews, MD

Funding made possible by Michael Axe, MD

Benedict Nwachukwu, MD
Hospital for Special Surgery
Does Lumbar Spine Alignment Influence Femoroacetabular Impingement Outcome?

In Memory of Harry N. Herkowitz, MD

Funding made possible by Mr. James G. Borovsky and Shepard R. Hurwitz, MD

Manuel Schubert, MD
University of Michigan
Epigenetic Programming of Satellite Cells from the Rotator Cuff

In Honor of Bernard R. Bach Jr., MD

OREF/AIRCAST FOUNDATION RESIDENT RESEARCH PROJECT GRANTS

William P. Abblitt, MD

Vanderbilt University

Alpha-defensin: Predictor of Successful Revision Total Joint Arthroplasty

Justin Chan, MD

Northwestern University

Biomechanical Analysis of Partial Extensor Tendon Lacerations Over Metacarp

Jacob Elkins, MD

University of Iowa

Biomechanical Considerations of Morbid Obesity in Total Joint Arthroplasty

Sandra Gebhart, MD

Vanderbilt University Medical Center

Bisphosphonates Prevent Heterotopic Ossification in the Upper Extremity

Joseph Patterson, MD

University of California, San Francisco

Implants, Morbidity, and Costs in AO/OTA 31-A2 Hip Fractures Among Veterans

Hayden B. Rockson, MD

University of Massachusetts

Defining Success in Perioperative Care Pathways for Hip Fracture Patients

Danielle Thomas, MD

Cedars-Sinai Medical Center

Knot of Henry Variation and the Effect on Plantar Flexion Strength

Nury Yim, MD

NYU Langone Medical Center

Rosiglitazone and Fracture Healing

OREF/EXACTECH RESIDENT RESEARCH PROJECT GRANTS

Karen Cheng, MD

University of California, San Diego

The Interaction of Metabolic Syndrome and Obesity on Hip Osteoarthritis

Itai Gans, MD

Johns Hopkins University

Administration of Soluble Activin-Receptor May Attenuate Radiation Fibrosis

Krishn Khanna, MD

University of California, San Francisco

The 'Delta Well-Leg' Compartment Pressure

Danica Vance, MD

Columbia University

Biomechanical Comparison of Subacromial Balloon Spacers

OREF/WOF RESIDENT RESEARCH PROJECT GRANT

Erika Garbrecht, MD

University of New Mexico

Chondrocyte Viability After Exposure to Antiseptic Solutions and TXA

Mario Vargas-Vila, MD, PhD

University of California, San Diego

Muscle Degeneration and Intervention in Chronic Rabbit Supraspinatus Injury

OREF/ORS RESIDENT RESEARCH PROJECT GRANT

Tianyi David Luo, MD

Wake Forest University

Reduction of Radiation-Induced Bone Loss by Vitamin C

OREF/CURRENT CONCEPTS IN JOINT REPLACEMENT CLINICAL PRACTICE AWARDS

Spring

Rachel M. Frank, MD

Rush University

Does Prior Shoulder Surgery Negatively Impact Shoulder Arthroplasty Outcomes?

Winter

Antonia F. Chen, MD

Rothman Institute

Post-Operative Blood Glucose Levels Predict Periprosthetic Joint Infection after Primary Total Joint Arthroplasty

ORS/OREF DISTINGUISHED INVESTIGATOR AWARD

Clare Rimnac, PhD
Case Western Reserve University

GRANT PROGRAMS

ORS/OREF/AAOS New Investigator (Grant Writing)
Workshop, May 2017

AAOS/OREF/ORS Clinician Scholar Development
Program

ORS/OREF TRAVEL AWARDS IN ORTHOPAEDIC RESEARCH TRANSLATION

Alberto Carli, MD
The Ottawa Hospital – General Campus

Tomohiro Fujiwara, MD, PhD
Okayama University Hospital

Philipp Leucht, MD
NYU Langone Medical Center

Tsuneari Takahashi, MD, PhD
Gunma Sports Medicine Research Center
Zenshukai Hospital

REGIONAL NEW INVESTIGATOR AWARDS

Eastern Orthopaedic Association

Southern Orthopaedic Association

Western Orthopaedic Association

The Orthopaedic Research and Education Foundation (OREF) was founded in 1955 to ensure an expanding base of knowledge and effective, evidence-based treatment protocols for orthopaedic surgeons to continually improve patient care. Since 1955, OREF has awarded more than \$146 million in research and educational grants and awards that benefit all of orthopaedics. A not-for-profit 501(c)(3) organization, OREF welcomes contributions from individuals and organizations; gifts are tax-deductible to the extent allowed by law.

For more information please visit www.oref.org/grants

For information on how to apply for OREF Grants and Awards, please access www.oref.org/grants, or call or email:

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