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

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

OREF CLINICAL RESEARCH AWARD
Nicholas Bernthal, MD
University of California, Los Angeles
Modifying and Delivering Antimicrobials to Prevent Implant Infections

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 TGFß 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

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.

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