

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 \$143 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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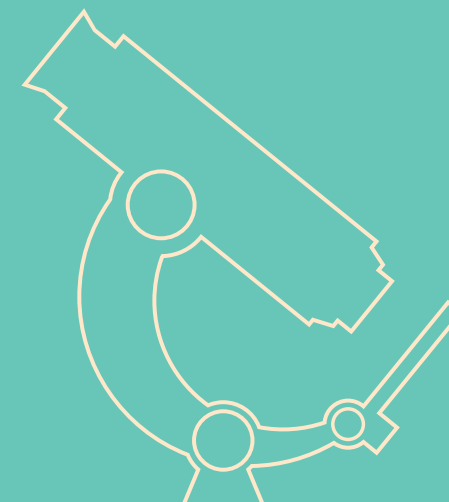


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# 2016 Grants Awarded

First-round funding, additional grants will be awarded throughout the year.

# OREF RESEARCH GRANTS AND AWARDS FUNDED FOR 2016

## OREF CAREER DEVELOPMENT GRANT

Jaimo Ahn, MD, PhD  
University of Pennsylvania  
*Modulation of Vascularity to Enhance Geriatric Fracture Healing*

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

Adam M. Pearson, MD  
Dartmouth-Hitchcock Medical Center  
*Validation of Appropriateness Criteria for the Surgical Treatment of Lumbar Degenerative Spondylolisthesis (LDS)*

## OREF CLINICAL RESEARCH AWARD

Timothy E. Hewett, PhD  
Ohio State University  
*Mechanisms and Prevention of ACL Injuries: Cutting ACL Injury Risk with Finely Sharpened Tools*

## RESEARCH GRANTS

### OREF/MTF RESEARCH GRANT

Yufeng Dong, PhD  
Louisiana State University  
*Mesenchymal Stem Cell Sheet-Mediated Allograft Repair*

### OREF/GOLDBERG RESEARCH GRANT IN ARTHRITIS

Surena Namdari, MD  
Rothman Institute, Thomas Jefferson University  
*Understanding the Presence of Bacteria in the Glenohumeral Joint by Polymerase Chain Reaction (PCR)-Based Electron Spray Ionization Time-of-Flight Mass Spectrometry (ESI-TOF-MS): An Evaluation of Non-Arthritis, Arthritic, and Revision Arthroplasty*

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

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

Emil Schemitsch, MD  
St. Michael's Hospital  
*The DECIPHER Study: Determinants of Functional and Clinically Important Outcomes in Proximal Humerus Fractures in the Elder Population: A National Cohort*

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

## MENTORED CLINICIAN-SCIENTIST GRANT

Kurt R. Weiss, MD  
University of Pittsburgh  
*Exploring Sarcoma Metastatic Potential*

## ORS/OREF POST-DOCTORAL FELLOWSHIP GRANT

Jennifer A. Nichols, PhD  
University of Utah  
*Evaluating Hindfoot Biomechanics to Improve Function Following Tibiotalar Arthrodesis*

## NEW INVESTIGATOR GRANTS

Antonia F. Chen, MD  
Rothman Institute, Thomas Jefferson University  
*Arthrofibrosis Modulation by Targeting Collagen Cross-Links*

Funding made possible by the Mahendra Patel, MD Research Fund

Kenneth L. Urish, MD, PhD  
University of Pittsburgh  
*Biofilm Dynamics in Periprosthetic Joint Infection*

Funding made possible by the Dr. Doreen DiPasquale and Dr. George Cierny Fund

## RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

John A. Buza III, MD  
NYU Hospital for Joint Diseases  
*The Effect of Progranulin on Impaired Fracture Healing in Diabetes*

Funding made possible by the Ira A. Roschelle Family Foundation

Alexander B. Christ, MD  
Hospital for Special Surgery  
*Targeting Skeletal Metastases Using a Novel HPMA Copolymer Nanomedicine Delivery System*

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

Funding made possible by the Musculoskeletal Transplant Foundation

Christopher T. Cosgrove, MD  
Washington University  
*Anatomic Syndesmotic Reduction Utilizing Preoperative Computed Tomography: A Cadaveric Study*

Funding made possible by Thomas P. Sculco, MD

Dipak B. Ramkumar, MD  
Dartmouth-Hitchcock Medical Center  
*Measuring Near-Infrared Fluorescence Penetration of Normal Connective Tissues to Facilitate Intra-Operative Navigation of Tumor Excision*

Funding made possible by the John T. Hocker Charitable Foundation

In Memory of John T. Hocker, MD

Gregory D. Schroeder, MD  
Rothman Institute, Thomas Jefferson University  
*The Effect of Cytokine Levels on the Clinical Outcomes in Patients Undergoing Anterior Discectomy and Fusion*

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

Funding made possible by the Musculoskeletal Transplant Foundation

Kevin A. Sonn, MD  
Loyola University, Chicago  
*Effect of Proton Pump Inhibitors on Bone Formation in a Rat Spinal Arthrodesis Model*

Funding made possible by the Ira A. Roschelle Family Foundation

## RESIDENT RESEARCH PROJECT GRANTS

### OREF/ORS RESIDENT RESEARCH PROJECT GRANT

Sariah Khormae, MD, PhD  
Hospital for Special Surgery  
*Modulating Metastatic Tumor Expansion in Bone Through the Inhibition of the SHN3 Pathway*

### OREF/UCONN FOUNDERS ENDOWMENT RESIDENT RESEARCH PROJECT GRANT

Michael B. O'Sullivan, MD  
University of Connecticut  
*Topical (Intra-Articular) Tranexamic Acid and Transfusion Rates Following Hip Hemiarthroplasty*

### OREF/AIRCAST FOUNDATION RESIDENT RESEARCH PROJECT GRANTS

Steven T. DiSegna, MD  
University of Massachusetts  
*Predicting Early Failure in Total Knee Arthroplasty*

Christopher R. Dobson, MD  
University of California, San Diego  
*Biomarkers of Neutrophil Extracellular Trap Formation and their Relationship to Adiposity in Total Joint Arthroplasty Patients*

Matthew J. Grosso, MD  
Columbia University  
*Adductor Canal Block Versus Periarticular Bupivacaine Injection in Total Knee Arthroplasty*

Jason C. Ho, MD  
Cleveland Clinic  
*The Long-Term Effects of Glenoid Component Version in Total Shoulder Arthroplasty*

Austin A. Pitcher, MD, PhD  
University of California, San Francisco  
*Biomechanical Evaluation of Augmentation Strategies for Fixation of Proximal Humerus Fractures in Osteoporotic Bone*

Brett D. Rosenthal, MD  
Northwestern University  
*Development of 3D-Printed Hyperelastic Bone Components for Bone Regeneration and Spine Fusion*

Bryan M. Smith, MD  
Loyola University Chicago  
*Development of a Real Time Model of Foot and Ankle Kinematics During Simulated Gait - A Pilot Study*

Jennifer Tangtiphaibontana, MD  
University of California, San Francisco  
*Effect of Ibuprofen on Postoperative Narcotic Consumption and Shoulder Functional Outcomes After Arthroscopic Rotator Cuff Repair*

Arvind G. Von Keudell, MD  
Beth Israel Deaconess Medical Center  
*Biomechanical Properties of Intramedullary Suture Anchor Versus Traditional Tension Band Wiring in Osteoporotic Olecranon Fractures*

Kent T. Yamaguchi, MD  
University of California, Los Angeles  
*The Effect of Proximal Tibia Anterior Closing Wedge Osteotomy on Anterior Cruciate Ligament Forces and Knee Kinematics: A Biomechanical Study*

### OREF/EXACTECH RESIDENT RESEARCH PROJECT GRANTS

Nicholas A. Bedard, MD  
University of Iowa  
*Functional Acetabular Orientation and Its Relation to Lumbrosacral Fusion*

Amanda N. Goldin, MD  
University of California, San Diego  
*Ewing Sarcoma - A New Treatment with a Dual PI3K/BET Bromodomain Inhibitor*

Nicholas Greco, MD  
University of Pittsburgh  
*Exploring the Interactions Between Osteosarcoma Cells and Lung Cells*

Jared Thomas, MD  
University of Michigan  
*Prospective, Randomized, Double-Blind, Placebo-Controlled Trial of Prophylactic Tamsulosin for Postoperative Urinary Retention in Primary Total Hip and Knee Arthroplasty Patients*

## ORS/OREF DISTINGUISHED INVESTIGATOR AWARD

Linda J. Sandell, PhD  
Washington University

## GRANT PROGRAMS

ORS/OREF/AAOS New Investigator (Grant Writing) Workshop, May, 2016

ORS/OREF Orthopaedic Basic Science Course

AAOS/OREF/ORS Clinician Scholar Development Program

## ORS/OREF TRAVEL AWARD IN ORTHOPAEDIC RESEARCH TRANSLATION

Seok Won Chung, MD  
Konkuk University School of Medicine

Evangelia Kalaitzoglou, MD  
University of Kentucky

Matthieu Malatray, MD  
Hospital Edouard Herriot

Brad B. Nelson, DVM, MS,  
Diplomate ACVS  
Colorado State University

## REGIONAL NEW INVESTIGATOR AWARDS

Eastern Orthopaedic Association

Southern Orthopaedic Association

Western Orthopaedic Association