WITHOUT OREF GRANT SUPPORT, young researchers like myself are not going to be able to do the research, and if we’re not able to do the research, THE FIELD OF ORTHOPAEDICS DOESN’T MOVE FORWARD.

Wakenda Tyler, MD
OREF CAREER DEVELOPMENT GRANT
Jonathan G. Schoenecker, MD, PhD
Vanderbilt University Medical Center
The Balance of Coagulation is Essential for Postnatal Skeletal Development

OREF CLINICAL RESEARCH AWARD
Thomas D. Brown, PhD
University of Iowa
Impingement and Dislocation in Total Hip Arthroplasty: 
Mechanisms and Consequences

OREF PROSPECTIVE CLINICAL RESEARCH GRANT
Ara Nazarian, DrSc
Beth Israel Deaconess Medical Center
CT-based Prediction of Vertebral Metastatic Fractures: 
A Multi-center Prospective Study

OREF RESEARCH GRANT IN ADULT RECONSTRUCTION
Jason E. Lang, MD
Wake Forest University Health Sciences
Gait Kinematics, Balance and Functional Outcomes Following Total Knee Arthroplasty: A Prospective, Randomized Study of Cruciate-retaining Versus Posterior-stabilized Implants

OREF/MTF RESEARCH GRANT
Chao Xie, MD
University of Rochester
PTH Effects on Intravenously Delivered hMSC During Skeletal Repair

OREF/GOLDBERG RESEARCH GRANT IN ARTHRITIS
Christina R. Allen, MD
University of California, San Francisco
Quantitative MR Imaging Evaluation of Articular Cartilage and Kinematic Changes in the Knee After Meniscectomy
Funding made possible by the Dr. Victor and Mrs. Harriet Goldberg Endowment Fund

OREF/ASES/ROCKWOOD CLINICAL RESEARCH GRANT IN SHOULDER CARE
William N. Levine, MD
New York Presbyterian/Columbia University
Satisfaction and Shoulder Function in Patients with Re-tear Following Rotator Cuff Repair: Analysis of the Effects of Age and Activity Level
Funding made possible by the Dr. and Mrs. Charles Rockwood Family Endowment Fund

OREF/MSTS RESEARCH GRANT IN ORTHOPAEDIC ONCOLOGY
Michele Ghert, MD
McMaster University
Prophylactic Antibiotic Regimens in Tumor Surgery (PARITY): A Pilot Randomized Multi-center Clinical Trial

OREF/POSNA RESEARCH GRANT IN PEDIATRIC ORTHOPAEDICS
Michelle A. James, MD
Shriners Hospital for Children, Northern California
Kinematic Analysis of the Thumb for Children with Congenital Thumb Hypoplasia

OREF/SYNTHES RESEARCH GRANT IN TRAUMA
Adam S. Hacking, PhD
Massachusetts General Hospital–Harvard Medical School
Enhanced Bone Formation and Repair by Modification of Allograft Surfaces

OREF/ROSH/OREF RESEARCH GRANT IN WOMEN’S MUSCULOSKELETAL HEALTH
Tamara D. Rozental, MD
Beth Israel Deaconess Medical Center
25-Hydroxy-Vitamin D and Bone Turnover Marker Levels in Patients with Distal Radius Fractures
Funding made possible by the Dr. Victor and Mrs. Harriet Goldberg Endowment Fund

OREF RESEARCH GRANTS AND AWARDS FUNDED FOR 2012
continued . . .
OREF/ZIMMER YOUNG INVESTIGATOR GRANTS
Funding made possible by Zimmer Holdings, Inc.

Paul R. Kuzyk, MD
Mount Sinai Hospital, Toronto
Comparison of a Retrograde Intramedullary Nail, Polyaxial Locking Plate, and Intramedullary Fibular Strut Allograft with Polyaxial Locking Plate for Fixation of Periprosthetic Distal Femur Fracture Post Total Knee Arthroplasty

Carol A. Lin, MD
University of Minnesota
An Examination of Patients Excluded from the Study to Prospectively Evaluate Reamed Intramedullary Nails in Patients with Tibial Fractures (SPRINT)

Shen-Ying (Richard) Ma, MD
Hospital for Special Surgery
The Effect of Anterior Cruciate Ligament Graft Tension on Graft Healing and Joint Biology

Phinit Phisitkul, MD
University of Iowa Hospitals and Clinics
The Effect of Syndesmotic Overcompression on Ankle Joint Mechanics in a Cadaver Model

Ran Schwarzkopf, MD
Brigham and Women’s Hospital
Patient Willingness to Participate in Total Joint Arthroplasty: New Technology Cost and Risk Aversion

David W. Shearer, MD
University of California, San Francisco
Intramedullary Nailing Versus Plates for Femoral Shaft Fractures in Dar es Salaam, Tanzania with Minimum 1-year Follow-up

OREF YOUNG INVESTIGATOR GRANTS

Michael J. Monument, MD
University of Utah, Huntsman Cancer Institute
GGAA Promoter Microsatellite Repeat Instability in the Oncogenesis of Ewing’s Sarcoma

Frank A. Petrigliano, MD
University of California, Los Angeles
Perivascular Stem Cells: A Potential Regenerative Therapy for Atrophy and Fatty Infiltration of the Rotator Cuff

OREF/AAHKS RESIDENT CLINICIAN SCIENTIST TRAINING GRANT IN TOTAL JOINT ARTHROPLASTY
Funding made possible by Zimmer Holdings, Inc.

Antonia F. Chen, MD
University of Pittsburgh
Mesenchymal Stem Cell Treatment and Prevention of Periprosthetic Joint Infections

RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

Tom Chao, MD
University of California, Irvine
A Novel Method to Preserve the Neuromuscular Junction After Traumatic Nerve Injury

Anny C-S. Hsu, MD
Columbia University
Enhancement of Dynamic Biomechanical Properties of Structural Allograft with BMP2-loaded Nanospheres

Nikolas J. Kazmers, MD
Washington University
The Role of Hedgehog Signaling in Determining the Osteogenic Response to Mechanical Loading of Bone

Benjamin A. McArthur, MD
Hospital for Special Surgery
The Role of Pre-inflammatory Cytokines in Fluid Pressure-Induced Osteolysis

Lionel Metz, MD
University of California, San Francisco
Does Diabetes Mellitus Predispose the Intervertebral Disc to Degenerate?

Roman M. Natoi, MD, PhD
Loyola University
Effects of Alcohol-induced Oxidative Stress on Mesenchymal Stem Cell Recruitment for Fracture Healing

OREF RESEARCH GRANTS AND AWARDS FUNDED FOR 2012
Verena M. Schreiber, MD
University of Pittsburgh
Bone-tendon-bone Versus Soft Tissue Autograft Anterior Cruciate Ligament Reconstruction: Is There a Difference in In Vivo Graft Performance?
Recipient of the MTF/Charles H. Herndon Resident Clinician Scientist Training Grant
Funding made possible by the Musculoskeletal Transplant Foundation

Adam S. Wilson, MD
University of Virginia
Human Adipose-derived Stem Cells in Three-dimensional Multicellular Aggregates as Allograft for Spinal Fusion: An In Vitro and In Vivo Study

Sarah Yannascoli, MD
University of Pennsylvania
Influence of Locally and Systemically Delivered Ibuprofen on Rotator Cuff Healing in a Rat Model
Funding made possible by the Ira A. Roschelle Family Foundation

OREF/DEPUY RESIDENT RESEARCH PROJECT GRANTS

Oladapo M. Babatunde, MD
Columbia University Medical Center
Acetabular Component Positioning and Functional Outcomes in Patients with Total Hip Arthroplasties

Johnathan A. Bernard, MD
Johns Hopkins University
Distal Clavicle Autograft for Reconstruction of Anterior Glenoid Deficiency Due to Recurrent Glenohumeral Instability—A Biomechanical Analysis

Alexander D. Choo, MD
University of California, San Diego
Cellular and Tissue-level Skeletal Muscle Pathophysiology in Massive Rotator Cuff Tears

Jason E. Jagodzinski, MD
Loyola University School of Medicine
The Effects of Nonsteroidal Anti-inflammatory Drugs on Fracture Healing in a Juvenile Rat Model

Ying-Ying Julia Kao, MD
University of California, San Francisco
A Brief Web-based Screening Questionnaire for Urinary Tract Infections and Bleeding Disorders in Pre-surgical Arthroplasty Patients: Development and Validation

Jenniefer Y. Kho, MD
University of Iowa
Wire Navigation-based Surgical Skills Simulation—A Pilot Study

Drew A. Lansdown, MD
University of California, San Francisco
Kinematic MR Imaging Evaluation of ACL Reconstructions Using the Mini Two-incision Method Compared to the Anteromedial Portal Technique

Tracy J-M. Lawyer, MD
University of Mississippi Medical Center
Evaluation of Chondrocytes and Bone Marrow Mesenchymal Stem Cells with a Poly Caprolactone (PCL) Scaffold Following Exposure to Pro-inflammatory Cytokines Subjected to Hypoxic Conditions

Megan E. Mignemi, MD
Vanderbilt University Medical Center
The Etiology of Deep Vein Thrombosis Associated with Severe S.aureus Musculoskeletal Infections in Children

Scott R. Miller, MD
SUNY–Stony Brook University Hospital
Identification of Systemic Osteogenic Factors in TBI Patients

Patrick D. Mulkey, MD
University of Arizona
Bisphosphonate Exposure as a Risk Factor for Stress Reactions in the Proximal Femur

Kerellos A. Nasr, MD
Providence Hospital
Comparison of the Effects of Polyethylene Particles to Bacteria at a Weight-bearing Rat Tibia Bone-implant Interface

Scott M. Riester, MD
Mayo Clinic
Differentiating Musculoskeletal Tumors Using MicroRNA Expression Profiling

Stephen J. Warner, MD, PhD
Hospital for Special Surgery
The Effect of Diabetes on Bone Quality and Collagen Cross-links

continued . . .
OREF RESIDENT RESEARCH PROJECT GRANT
Paul D. Butler, MD
Van Andel Research Institute
Biomechanical Testing of a Novel Tension Band Plate Construct Compared to Tension Band Wires or Screws
Funding made possible by Biomet Orthopedics

OREF/EXACTECH RESIDENT RESEARCH PROJECT GRANTS
Matthew R. Karek, MD
Providence Hospital
Elution Profiles of Two Methods of Antibiotic-impregnated Polymethylmethacrylate Cement Tibial Nail Preparations
Byung Joo Lee, MD
Rhode Island Hospital
Effect of Platelet-rich Plasma and Constituent Growth Factors of Subacromial Bursa
David J. Wilson, MD
Madigan Army Medical Center
Biomechanical Evaluation of Unicortical Stress Risers of the Proximal Humerus
Justin Shu Yang, MD
Washington University
Comparison of Serial Casting in Minimally Invasive Surgery with Traditional Surgical Treatment for Congenital Vertical Talus, with 5-year Follow-up

OREF/MAKO RESIDENT RESEARCH PROJECT GRANTS
Julia Lee, MD
Greenville Hospital System
Joint Mechanics in Unicompartmental Knee Arthroplasty
Savyasachi C. Thakkar, MD
Johns Hopkins University
Determination of a Rotational Endpoint Standard for Cortical Screw Insertion

ORS/OREF DISTINGUISHED INVESTIGATOR AWARD
Thomas A. Einhorn, MD
Boston University

ORS/OREF TRAVEL AWARD IN ORTHOPAEDIC RESEARCH TRANSLATION
Samuel B. Adams, MD
Duke University Medical Center
Eiji Kozawa, MD
Nagoya University Graduate School of Medicine, Nagoya, Japan
Carla R. Scanzello, MD, PhD
Rush University
Aasis Unnanuntana, MD
Hospital for Special Surgery
OREF PROSPECTIVE CLINICAL RESEARCH GRANTS IN SPINE CARE
Edward Benzel, MD
Cleveland Clinic
Anatomical differences and protective helmet design in American football: Contributions to head, neck and spine trauma risk in adult and youth participants

Charles Fisher, MD
University of British Columbia
The Epidemiology, Process, and Outcomes of Spine Oncology (EPOSO): A prospective data base to answer three key clinical questions

Stefan Parent, MD
University of Montreal
Prospective multicenter analysis on 3D factors involved in the decision to perform a selective vs. non-selective fusion in AIS

David Polly, MD
University of Minnesota
Minimize Implants Maximize Outcomes (MIMO) clinical trial

John Ratliff, MD
Stanford University
Developing a patient-centered clinical tool for assessment of risk of perioperative complications in spine surgery procedures

OREF/CURRENT CONCEPTS IN JOINT REPLACEMENT CLINICAL PRACTICE AWARD
Gregory G. Polkowski, MD
University of Connecticut Health Center
Pain and Dissatisfaction Following TKA Performed for Early Stage Osteoarthritis (Spring 2012 Award)

John P. Meehan, MD
University of California, Davis
A Population-based Comparison of the Incidence of Adverse Outcomes After Simultaneous-bilateral Versus Staged-bilateral Total Knee Arthroplasty (Winter 2011 Award)

Ryan M. Nunley, MD
Washington University
Return to Sexual Function Following Hip Arthroplasty Surgery (Spring 2011 Award)

Getting the OREF grant INSPIRED CONFIDENCE.

Jesse A. Shantz, MD, MBA
OREF GME FELLOWSHIP GRANTS
OREF Clinician Development Program graduate medical education fellowship grants for 2012-2013 are made possible by pooled support provided by Biomet, Inc., DePuy, Medtronic, DePuy Spine, Stryker and Synthes.

Adult Reconstruction
Anderson Clinic
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Columbia University Medical Center
Duke University
Emory University
Foundation for Orthopaedic Research and Education
Hospital for Special Surgery
Indiana University
Massachusetts General Hospital
Mayo Clinic
Methodist Hospital
New England Baptist Hospital
New York University–Hospital for Joint Diseases
OrthoCarolina/OrthoCarolina Research Institute
Rocky Mountain Adventist Healthcare Foundation
Rush University Medical Center
University of California, Davis
University of Colorado, Denver
University of Louisville
University of Minnesota
University of Utah
Vanderbilt University Medical Center
VCU Health Systems (Virginia Commonwealth University)
Wake Forest University Health Sciences
Washington University

Hand
Massachusetts General Hospital
Mayo Clinic

Oncology
Massachusetts General Hospital
Mayo Clinic
University of Florida, Gainesville
Vanderbilt University Medical Center

Shoulder and Elbow
Foundation for Orthopaedic Athletic and Reconstructive Research
Foundation for Orthopaedic Research and Education
Mayo Clinic
Mount Sinai School of Medicine
New York University–Hospital for Joint Diseases
OrthoCarolina/OrthoCarolina Research Institute
University of Florida, Gainesville
Washington University

Spine
Beaumont Health System (William Beaumont Hospital)
Boston Medical Center
Cedars-Sinai Medical Center
Children’s Hospital, Los Angeles
Cincinnati Children’s Hospital Medical Center
Emory University
Foundation for Orthopaedic Research and Education/Moffitt Cancer Center/University of South Florida Hospital for Special Surgery
Johns Hopkins University–Adult Spine Division
Johns Hopkins University–Pediatric Spine Division
Mayo Clinic
New England Baptist Hospital
New York University–Hospital for Joint Diseases
Northwestern University/McGaw Medical Center
Oregon Health & Science University
Orthopaedic Research Foundation/OrthoIndy
Rady Children's Hospital/UCSD/
Children's Specialists Foundation
San Diego Spine Foundation

Foot and Ankle
Baylor University Medical Center
Duke University
Institute for Foot and Ankle Reconstruction/Mercy Medical Center, Baltimore
Shriners Hospital for Children, Northern California/
UC Davis Medical Center
Shriners Hospital for Children, Philadelphia
Southern Illinois University
Texas Back Institute
Texas Scottish Rite Hospital for Children/
University of Texas Southwestern
Twin Cities Spine Center
University of California, Davis
University of California, San Diego
University of California, San Francisco
University of Colorado, Denver
University of Tennessee–Campbell Clinic
University of Virginia
Washington University
Yale University

**Sports Medicine**
Andrews Research & Education Institute
Barton Health, Lake Tahoe
Duke University
Kerlan Jobe Orthopaedic Clinic
Mississippi Sports Medicine and Orthopaedic Center
Orthopaedic Research of Virginia

**Trauma**
Brigham and Women’s Hospital
Foundation for Orthopaedic Research and Education
Hospital for Special Surgery
University of California, Davis
University of California, San Francisco/
Orthopaedic Trauma Institute at
San Francisco General Hospital
University of Florida, Gainesville
University of Minnesota
University of Missouri, Columbia
University of Southern California
University of Texas, San Antonio
University of Washington/ Harborview Medical Center
Vanderbilt University Medical Center
Wake Forest University Health Sciences

**OREF RESIDENCY ENHANCEMENT GRANTS**
OREF Clinician Development Program residency enhancement grants for 2012-2013
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**Guest Speaker Grants**
Banner Good Samaritan Medical Center
Beaumont Health System (William Beaumont Hospital)
Duke University
Georgetown University Hospital
Indiana University
Johns Hopkins University
Michigan State University/
Kalamazoo Center for Medical Studies
Naval Medical Center, San Diego
New York University–Hospital for Joint Diseases
Northwestern University
Ohio State University
Rush University Medical Center
Southern Illinois University
St. Luke’s Roosevelt Hospital Center
St. Mary’s Hospital
(San Francisco Orthopaedic Residency Program)
SUNY Downstate Medical Center
Texas Tech University HSC, Lubbock
Union Memorial Hospital
University of Arkansas for Medical Sciences
University of California, Los Angeles
University of California, San Diego
University of California, San Francisco
University of California, San Francisco/Fresno
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University of Colorado, Denver
University of Florida, Gainesville
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OREF EDUCATIONAL GRANTS FUNDED FOR 2012

University of Washington
Vanderbilt University Medical Center
Wake Forest University Health Sciences
Walter Reed Military Medical Center
West Virginia University

Scholarship Grants
Banner Good Samaritan Medical Center
Baylor College of Medicine, Houston
Beaumont Health System (William Beaumont Hospital)
Dartmouth-Hitchcock Medical Center
Georgetown University Hospital
Georgia Health Sciences University
Hospital for Special Surgery
Johns Hopkins University
Naval Medical Center San Diego
New York University–Hospital for Joint Diseases
Northwestern University
Ohio State University
Rush University Medical Center
Southern Illinois University
St. Luke's Roosevelt Hospital Center
St. Mary’s Hospital
(San Francisco Orthopaedic Residency Program)
SUNY Downstate Medical Center
SUNY Upstate Medical University
Texas Tech University HSC, Lubbock
Union Memorial Hospital
University of Arkansas for Medical Sciences
University of California, Los Angeles
University of California, San Diego
University of California, San Francisco
University of California, San Francisco/Fresno
University of Chicago
University of Colorado, Denver
University of Florida, Gainesville
University of Hawaii
University of Kentucky
University of Minnesota
University of Mississippi
University of Missouri, Columbia
University of Pennsylvania
University of South Alabama
University of Southern California
University of Tennessee–Campbell Clinic
University of Virginia
University of Washington
Vanderbilt University Medical Center
Wake Forest University Health Sciences
Walter Reed Military Medical Center
West Virginia University

OREF RESEARCH RESIDENCY GRANTS
OREF Clinician Development Program research residency grants for 2012-2013 are made possible by pooled support provided by Zimmer and Stryker

University of California, San Francisco
University Hospitals Case Medical Center
University of Pennsylvania
Wake Forest University

EDUCATIONAL GRANTS AND OREF PROGRAMS
American Academy of Orthopaedic Surgeons
Educational Grant for 2012 Programs

American Orthopaedic Association
2012 AOA-OREF Resident Leadership Forum

OREF/ORS Regional Resident Research Symposia
Funding made possible by Synthes and Biomet, Inc.

ORS/OREF Annual Grant Writing Workshops
February 2012 and May 2012

American Academy of Orthopaedic Surgeons
AAOS/OREF/ORS Clinician Scholar Development Program

Gordon Research Conference
Musculoskeletal Biology and Bioengineering Conference

Orthopaedic Research Society
ORS New Investigator Recognition Award
Joerg H. Holstein, MD
University of Saarland, Homburg, Germany
Erythropoietin Improves Bone Repair in Atrophic Non-unions
The residency enhancement grant served as a CATALYST FOR NEW THINKING about how we could improve our resident program at Rush University Medical Center.

Andrew R. Hsu, MD
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 $115 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 or www.oref.org/grants