



# GRANTS AWARDED

2025



Advancing innovative research.  
Improving musculoskeletal health.®

# GRANT AND AWARD RECIPIENTS | 2025

## OREF CLINICAL RESEARCH AWARD

**PI: Brian J. Cole, MD**

Midwest Orthopaedics at Rush

*Optimizing Patient Outcomes Following Osteochondral Allograft Transplantation – The Impact of 25 Years of Translational and Clinical Research*

## OREF LIFETIME SERVICE AWARDS

**Richard D. Coutts, MD**

**William C. McMaster, MD**

## ORS/OREF DISTINGUISHED INVESTIGATOR AWARD

**Brian Johnstone, PhD**

Oregon Health & Science University

## RESEARCH GRANTS

### CAREER DEVELOPMENT GRANT

**PI: Nicholas Bedard, MD**

Mayo Clinic, Rochester

*Evaluation on Phage Dosing for Periprosthetic Joint Infection Treatment*

Funded in part by The Aircast Foundation

### NEW INVESTIGATOR GRANT

**PI: Laura Moore, MD, PhD**

The Hospital for Special Surgery

*The Role of Cellular Senescence in Joint Stiffness*

### OREF GOLDBERG ARTHRITIS RESEARCH GRANT

**PI: Brocha Stern, MD**

**Co-PI: Brett Hayden, MD**

Icahn School of Medicine at Mount Sinai

*Enhancing HOOS JR and KOOS JR Score Interpretation for Point of Care Use*

Funding provided by the  
Dr. Victor and Mrs. Hariett Goldberg Endowment Fund

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

**PI: Rebekah Lawrence, DPT, PhD**

**Co-PI: Benjamin Zmistowski, MD**

Washington University in St. Louis

*Glenohumeral Joint Arthrokinematics: A Model for Investigating Eccentric OA*

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

### OREF/MUSCULOSKELETAL TRANSPLANT FOUNDATION (MTF) BIOLOGICS RESEARCH GRANT

**PI: Gabriella Lindberg, PhD**

University of Oregon

*Self-Assembled VH Spheroids for Matrix-Assisted Cartilage Implantation in Elderly and Obese Osteoarthritis Patients*

Funding provided by the Musculoskeletal Transplant Foundation Biologics

### RUTH JACKSON ORTHOPAEDIC DIVERSITY, EQUITY, INCLUSION AND DISPARITIES IN ORTHOPAEDIC HEALTH CARE RESEARCH GRANT

**PI: Jaysson Brooks, MD**

Scottish Rite for Children

*Understanding Factors Influencing Attrition in Orthopedic Surgical Training*

Funding provided by The Zimmer Biomet Foundation

## AAOS/OREF CLINICAL GAPS RESEARCH GRANT

**PI: Richard Danilkowicz, MD**

**Co-PI: Jay Milan Patel, PhD**

Emory University

*Silent Cartilage Degeneration in the Post-Traumatic ACL Window*

Funding made possible by the American Academy of Orthopaedic Surgeons

## MENTORED CLINICIAN SCIENTIST GRANTS

**PI: David Brogan, MD**

Washington University in St. Louis

*Identification & Imaging of Skeletal Muscle Response to Graded Nerve Crush*

**PI: Christopher Collier, MD**

Indiana University

*Metastatic Bone Disease and IL-6 as Drivers of Cachexia in Kidney Cancer*

Funding provided by the

Dr. Zachary B. and Mrs. Kathleen Friedenber Endowment Fund

**PI: Neeraj Patel, MD**

Ann & Robert H. Lurie Children's Hospital of Chicago

*RED KARD: Reducing Disparities in Knee Arthroscopy for Adolescents*

## THE ARNOLD I. CAPLAN AWARD FOR DISTINGUISHED RESEARCH IN ORTHOBIOLOGICS

**PI: Daniel Saris, MD, PhD**

Mayo Clinic, Rochester

*RECLAIM: Allogenic MSCs Facilitation of Autologous Cartilage*

*Recycling, Our Multidisciplinary Moonshot to Innovate Patient*

*Care by Leveraging MSC Function, The Bench-to-Bedside Journey*

## RESIDENT CLINICIAN SCIENTIST TRAINING GRANTS

**PI: David Kolin, MD**

The Hospital for Special Surgery

*Joint Immobilization Following Revision Total Knee Arthroplasty*

Funding made possible by the Ira A. Roschelle Family Foundation

**PI: Timothy Liu, MD**

**Co-PI: Thomas Kremen, MD**

The Regents of the University of California, Los Angeles

*Bisphosphonate-Targeted Delivery of BMP2 for Tendon-Bone Regeneration*

Funding made possible by Thomas P. Sculco, MD and Mrs. Cynthia Sculco

**PI: Madeline Rieker, MD**

**Co-PI: Glenn Gaston, MD**

OrthoCarolina Research Institute

*Prophylactic Targeted Brain Rehabilitation (TBR) for Phantom Limb Pain*

Funding made possible by the John T. Hocker Charitable Foundation

*In Memory of John T. Hocker, MD*

**PI: Jelle van der List, MD, PhD**

The Ohio State University

*ASPIRATE-Trial*

Funding made possible by the Ira A. Roschelle Family Foundation

## RESIDENT RESEARCH PROJECT GRANTS

**PI: Calvin Chandler, MD**

**Co-PI: : Jonathan Riboh, MD**

OrthoCarolina Research Institute, Inc.

*Muscle Composition Changes after ACL-R: A 3D Body Scanning Analysis*

Funding made possible by

Orland Bethel Family Musculoskeletal Research Center

**PI: Caleb Ford, MD**

Washington University in St. Louis

*Total Hip Arthroplasty with HXLPE in Patients Younger Than or Equal to 50 Yrs Old: 25-Yr Follow-Up*

Funding made possible by the American Arthritis Society

**PI: Andrew Gatto, MD**

The Regents of the University of California, San Francisco

*GLP-1-Mediated Rotator Cuff Muscle Fat: Cellular and Imaging Correlates*

Funding made possible by

Dr. Adam and Julie Harris in Memory of Eugene Harris, MD

**PI: Rachel Gottlieb, MD**  
**Co-PI: Lauren Shapiro, MD**  
The Regents of the University of California,  
San Francisco  
*Is Language Preference Associated with Readmissions  
and Complications*  
Funding made possible by the Western Orthopaedic Association

**PI: Hailey Huddleston, MD**  
**Co-PI: Duretti Fufa, MD**  
The Hospital for Special Surgery  
*Predicting Operative Management of Distal Radius Fractures*  
Funding made possible by  
Orland Bethel Family Musculoskeletal Research Center

**PI: Iryna Ivasyk, MD**  
**Co-PI: William Eward, MD**  
Duke University School of Medicine  
*Pilot Trial: Local Estrogen Delivery in Postmenopausal  
Fracture Healing*  
Funding made possible by the Ira A. Roschelle Family Foundation

**PI: Mitchell Johnson, MD**  
**Co-PI: Samuel Taylor, MD**  
**Co-PI: Andreas Kontaxis, PhD**  
The Hospital for Special Surgery  
*The Effect of Remplissage on Glenohumeral Joint Biomechanics*  
Funding made possible by  
Dr. Adam and Julie Harris in Memory of Eugene Harris, MD

**PI: Nisha Kale, MD**  
**Co-PI: Benjamin Zmistowski, MD**  
Washington University in St. Louis  
*Accuracy of Low-Dose CT to Assess Glenoid Bone Loss  
in Shoulder Instability*  
Funding made possible by Michael J. Axe, MD and Jeremie M. Axe, MD  
In Memory of Jack C. Hughston, MD and In Honor of James R. Andrews, MD

**PI: Kevin Liu, MD**  
The Regents of the University of California,  
San Francisco  
*Fibroadipogenic Progenitors in Fracture Related Infections*  
Funding made possible by the Western Orthopaedic Association

**PI: Joseph Panos, MD**  
**Co-PI: Christopher Evans, PhD**  
Mayo Clinic Rochester, MN  
*Novel Gene Therapy Strategies to Promote Bone Regeneration*

**PI: Rafa Rahman, MD**  
**Co-PI: Scott Wolfe, MD**  
The Hospital for Special Surgery  
*Triquetrum and Distal Scaphoid Excision to Improve  
Radiolunate Arthrodesis*  
Funding made possible by the Ira A. Roschelle Family Foundation

## SHIMOMURA/OREF/INTERNATIONAL SOCIETY OF ORTHOPAEDIC SURGERY & TRAUMATOLOGY (SICOT) TRAVEL AWARDS

**PI: Keita Nagira, MD**  
Tottori University  
*Establishment of a New Bone Scoring System for Early Knee OA  
in Humans*

**PI: Tabu Kaggwa, MD**  
Consolata Hospital Mathari  
*Driving Meaningful Improvements in Orthopedic Care in Sub-  
Saharan Africa Through Data-Driven, Patient-Centered, and  
Policy-Informing Research*

## 2025 CURRENT CONCEPTS IN JOINT REPLACEMENT AWARDS

**Caleb A. Ford, MD, PhD**  
Washington University in St. Louis  
*One Dedicated Operating Room Team Member Improves Total  
Joint Arthroplasty Efficiency*

**Wesley J. Manz, MD**  
Emory University School of Medicine  
*Methylprednisolone Taper after Total Knee Arthroplasty:  
A Prospective Single-Blinded Randomized Trial*

**Mehreen Pasha, MD**  
Rush University  
*Repeat Exposure to Silver Ion Impregnated Dressing Does  
Not Increase Risk of Allergic Contact Dermatitis: A Prospective  
Cohort Study*

**Gabrielle S. Ray, MD**  
Mayo Clinic  
*Combating Orthopedic Implant Biofilms: SABER (Study on  
Agitation for Biofilm Eradication and Reduction) Evaluates  
Mechanical, Sonication, and Radiofrequency Approaches in  
a Preclinical In Vitro Study*

**Eric Schweppe, MD**

University of Pennsylvania

*Patients Undergoing Total Hip Arthroplasty for Avascular Necrosis are at Increased Risk for Pulmonary Embolism Compared to Those with Osteoarthritis*

**Sung Jun Son, MD, MS**

University of California, Los Angeles

*Benchmarking Total Knee Arthroplasty Implant Systems Using Data from a United States Total Joint Replacement Registry*

**DIGITAL ORTHOPAEDICS CONFERENCE  
SAN FRANCISCO**

**POSTER AWARD WINNERS**

**First Place**

**Joachim Kole, MD**

University of California, Los Angeles

**Second Place**

**Billi Fabrizio, MD**

UCLA Health

**Third Place**

**Timothy Kelley, MD**

University of California, San Francisco

**2025 RESIDENT RESEARCH  
SYMPOSIUM WINNERS**

**NATIONAL**

**2025 OREF National Resident Research  
Symposium Champion**

**Julia Retzky, MD**

The Hospital for Special Surgery

*Early Anterior Cruciate Ligament Reconstruction Mitigates the Development of Post-Traumatic Osteoarthritis in a Murine Anterior Cruciate Ligament Rupture Model*

**Top Scoring Residents**

**Joshua T. Bram, MD**

The Hospital for Special Surgery

*Skeletal Age Assessment from Knee Radiographs Using Deep Learning*

**Bhargavi Maheshwer, MD**

University Hospitals Cleveland Medical Center

*Predictors of Anterior Cruciate Ligament Re-Injury and Return to Sports in Adolescent Athletes: Increased Risk in Younger Age and Earlier Time to Return to Sport*

**Katherine J. Montoya, MD**

University of Arkansas for Medical Sciences

*Ten Years of a Novel Telemedicine System for Management of Statewide Hand Trauma in Arkansas – A Decade in Review*

**Erik Nakken, MD**

University of Michigan

*Optimizing Contact Pressures of the Posterior Heel During Lower Extremity Immobilization: A Biomechanical Study*

**Sreetha Sidharthan, MD**

The Hospital for Special Surgery

*Reverse-Anatomical Front and Back Reconstruction for Volar Intercalated Segment Instability Non-Dissociative: A Biomechanical Study*

**Presenters' Choice**

**Alexander E. White, MD**

The Hospital for Special Surgery

*The Effect of Posterior Tibial Slope on Tibiofemoral Joint Biomechanics: An In-Vitro Analysis*

**MID-ATLANTIC**

**First Place**

**Julia Retzky, MD**

The Hospital for Special Surgery

*Early Anterior Cruciate Ligament Reconstruction Mitigates the Development of Post-Traumatic Osteoarthritis in a Murine Anterior Cruciate Ligament Rupture Model*

**Second Place**

**Zachary J. Herman, MD**

University of Pittsburgh Medical Center

*Overhead Athletes Have Comparable Intraoperative Injury Patterns and Clinical Outcomes to Non-Overhead Athletes Following Surgical Stabilization for First-Time Anterior Shoulder Instability at Average 6-year Follow-up*

**Alexander E. White, MD**

The Hospital for Special Surgery

*The Effect of Posterior Tibial Slope on Tibiofemoral Joint Biomechanics: An In-Vitro Analysis*

### Third Place

#### Alexander Berk, MD

University Hospitals/Case Western Reserve University  
*Patients with Vitamin D Deficiency are More Likely to Develop Complex Regional Pain Syndrome After Extremity Fractures: A Large Database Propensity-Matched Cohort Study*

#### Alexandra Baker Lutz, MD

University of Maryland  
*Impact of Obesity on Patient-Reported Outcomes Two Years After Multiple Ligament Knee Reconstruction*

#### Margaret Sinkler, MD

Case Western Reserve University  
*To Fix or to Replace? An Analysis of Geriatric Periprosthetic Distal Femur Fractures Treated with Open Reduction Internal Fixation, Retrograde Intramedullary Nail, or Distal Femoral Replacement*

### Presenters' Choice

#### Alexander P. Hoffman, MD

University of Pittsburgh Medical Center  
*Intraoperative Evaluation of Sarcoma Surgical Margins with Indocyanine Green Fluorescence Imaging*

## MIDWEST

### First Place

#### Katherine J. Montoya, MD

University of Arkansas for Medical Sciences  
*Ten Years of a Novel Telemedicine System for Management of Statewide Hand Trauma in Arkansas – A Decade in Review*

### Second Place

#### Bhargavi Maheshwer, MD

University Hospitals Cleveland Medical Center  
*Predictors of Anterior Cruciate Ligament Re-Injury and Return to Sports in Adolescent Athletes: Increased Risk in Younger Age and Earlier Time to Return to Sport*

#### Erik Nakken, MD

University of Michigan  
*Optimizing Contact Pressures of the Posterior Heel During Lower Extremity Immobilization: A Biomechanical Study*

### Third Place

#### Apurva Choubey, MD

University of Illinois Chicago  
*Joint Arthroplasty in Breast Cancer: PE Risk and Thromboprophylaxis Depend on Time Since Mastectomy*

#### Kyleen Jan, MD

Rush University Medical Center  
*Midcarpal Stability Persists with  $\leq 33\%$  Distal Scaphoid Resection: A 3D Computational Analysis*

#### Mark Plantz, MD

Northwestern University  
*Pre-Clinical Safety and Efficacy Assessment of a Novel 3D-Printed Hydroxyapatite-Demineralized Bone Matrix (HA-DBM) Composite Scaffold Using a Rodent Posterolateral Fusion Model*

### Presenters' Choice

#### Jordan Serotte, MD

University of Chicago  
*AI-Assisted MRI Interpretation Improves Surgeon Performance in Diagnosing Bankart Lesions*

## NORTHEAST

#### Joshua T. Bram, MD

The Hospital for Special Surgery  
*Skeletal Age Assessment from Knee Radiographs Using Deep Learning*

### Second Place

#### Sreetha Sidharthan, MD

The Hospital for Special Surgery  
*Reverse-Anatomical Front and Back Reconstruction for Volar Intercalated Segment Instability Non-Dissociative: A Biomechanical Study*

#### Nathan Varady, MD

The Hospital for Special Surgery  
*Low Complication Rate Following Contemporary Pure Anteriorization Tibial Tubercle Osteotomy for Patellofemoral Overload*

### Third Place

#### Aonnicha Burapachaisri, MD

Icahn School of Medicine at Mount Sinai Hospital  
*Does the Distal Tip Position of Long Cephalomedullary Nails Impact Mechanical Failure Rates?*

#### Austin C. Kaidi, MD

The Hospital for Special Surgery  
*A Novel Clinical Calculator to Identify Patients at Risk for Ileus after Short-Segment Lumbar Fusion*

**Gergo B. Merkely, MD**

Harvard Combined Orthopaedic Residency

*AI-Driven Virtual Athlete Avatars for Injury Risk Stratification and Performance Analysis in Sports Medicine*

### **Presenters' Choice**

**Rafa Rahman, MD, MPH**

The Hospital for Special Surgery

*Novel Scapholunate Bridge Augmentation to Treat Scapholunate Interosseous Ligament Injury*

## **SOUTHEAST**

### **First Place**

**Joseph Geller, MD**

Jackson Memorial Hospital/University of Miami

*Tracking Wearable Device Compliance in Total Knee Arthroplasty Recovery*

### **Second Place**

**David S. Constantinescu, MD**

University of Miami

*When the Robot Fails Us: A Comprehensive Analysis of a United States Food and Drug Administration Database of Technology-Assisted Arthroplasty*

**Olivia de Araujo, MD**

Jackson Memorial Hospital/University of Miami

*Consideration of Updated Breast Cancer Screening in Female Orthopaedic Surgeons: A Comprehensive Review*

### **Third Place**

**James Frix, MD**

Atrium Health Carolinas Medical Center

*Early Implementation of Virtual Reality Therapy for Phantom Limb Pain: A Feasible and Effective Adjunct to Traditional Interventions*

**Aneesh V. Samineni, MD**

Jackson Memorial Hospital/University of Miami

*Prediabetes as an Unrecognizable Risk Factor for Inpatient Postoperative Complications After Total Knee Arthroplasty*

**Ryan Serbin, MD**

Atrium Health Carolinas Medical Center

*Targeted Brain Rehabilitation: A Novel Virtual Reality Protocol for Phantom Limb Pain Following Upper Extremity Amputation*

### **Presenters' Choice**

**Blake H. Hodgens, MD**

Atrium Health Carolinas Medical Center

*Weightbearing After Distal Femur Fractures: Does the Surgeons' Postoperative Protocol Matter?*

## **WESTERN**

### **First Place**

**Kyla Petrie, MD**

University of California, San Francisco

*Comparison of Retear Rates and All-Cause Reoperation Rates in Pediatric and Adolescent AL Reconstructions Using Bone Patellar Tendon and Quadriceps Tendon Grafts*

### **Second Place**

**Grant Schroeder, MD**

Stanford University

*Shorter Relative Patellar Defect Length after Bone Patellar Tendon Bone Anterior Cruciate Ligament Reconstruction is Associated with Better Postoperative Patient-Reported Outcomes at 1-year Follow-up*

**Mathangi Sridharan, MD**

University of California, Los Angeles

*Predictive Factors of Having a Second UBC-Related Pathologic Fracture*

### **Third Place**

**Kelechi Nwachuku, MD**

University of California, San Francisco

*Osteoarthritis and Total Joint Arthroplasty in Housing Insecure Patients at a Safety-Net Hospital in a Major Urban City*

**Alexa K. Pius, MD**

Stanford University

*Navigated and Robotic Total Knee Arthroplasty (TKA) Do Not Confer Improved 5-Year Survivorship Compared to Conventional TKA: An Analysis from the American Joint Replacement Registry (AJRR)*

**Karch M. Smith, MD**

University of California, San Diego

*Combined Root and Body (CRAB) Lateral Meniscus Tears in the Adolescent Population: An Underrecognized and Underreported Tear Pattern*

**Presenters' Choice**

**Oliver Dong, MD**

San Francisco Orthopaedic Residency Program at  
University of California, San Francisco Health  
St. Mary's Hospital

*Osteochondral Autograft from the Proximal Tibiofibular Joint  
for Reconstruction of Acute Tibial Plateau Fractures with Severe  
Chondral Defects*

**Nicole J. Newman-Hung, MD**

University of California, Los Angeles

*Characteristics and Recurrence Risk of Upper Extremity Soft  
Tissue Sarcoma*

**CALIFORNIA ORTHOPAEDIC ASSOCIATION  
OREF RESIDENT AWARD WINNER**

**Ryan Halvorson, MD**

University of California, San Francisco

*Evaluation of a Pretrained Large Language Model as a Clinical-  
decision Support Tool in Musculoskeletal Health*

**OREF EDWARD C. MCELFRISH AWARDS FOR  
BEST RESIDENT ABSTRACT**

**Hannah Levy, MD**

Mayo Clinic

*Lumbar Facet Arthroplasty for Spondylolisthesis and Stenosis:  
Interim Analysis of Four-Year Outcomes from a Prospective  
Randomized Clinical Trial*

**PI: Chris Chermide-Scabbo, MD**

University of Minnesota

*Better Functional Scores in Arthroscopic-Assisted Percutaneous  
Fixation Than Open Reduction Internal Fixation of Lateral Tibial  
Plateau Fractures*



## 2026 GRANT AND AWARD RECIPIENTS

### OREF CLINICAL RESEARCH AWARD

**Dana C. Covey, MD, MSc, FAAOS, FACS**

University of California, San Diego

*The Evolution of Modern Combat Orthopaedic Care from Clinical Investigation to Battlefield Application: Three Decades of Research to Decrease Morbidity and Mortality*

Funding made possible by the Hark Endowment Fund

### THE ARNOLD I. CAPLAN AWARD FOR DISTINGUISHED RESEARCH IN ORTHOBIOLOGICS

**Johnny Huard, PhD**

Steadman Philippon

*Mesenchymal Stem Cells or Medicinal Signaling Cells (MSCs): Origin, Mechanism of Action(s) & Clinical Application of MSCs*

### OREF MICHAEL P. KELLY SR. LEADERSHIP FELLOWSHIP AWARDS

**Janice Bonsu, MD**

Emory University

**Matthew Frederickson, MD**

The Regents of the University of California,  
On Behalf of its Davis Campus

**Michelle M. Lawson, MD**

The University of Iowa

**Jason Young, MD**

Beth Israel Deaconess Medical Center

### CAREER DEVELOPMENT GRANT

**PI: Alvin Su, MD, PhD**

**Co- PI: Justin Parreno, PhD**

**Co-PI: Xinqiao Jia, PhD**

Nemours Children's Hospital, Delaware

*Bioengineering Stratified Cartilage Through Bioinspired Matrix Stiffening*

Funding made possible by The Aircast Foundation

### OREF NEW INVESTIGATOR RESEARCH GRANT

**PI: Kyle Morse, MD**

The Hospital for Special Surgery

*A Stem Cellular Basis for Scoliosis and Spine Fusion*

Funding provided by the

Dane and Mrs. Mary Louise Miller Endowment Fund

### OREF/JOHN W. BROWN EARLY-STAGE INVESTIGATOR ENABLING TECHNOLOGIES IN MUSCULOSKELETAL CARE RESEARCH

**PI: Maria Menendez Montes, DVM, PhD**

**Co-PI: Robert H. Brophy, MD**

Washington University in St. Louis

*Advancing Precision Imaging in Post-Traumatic Osteoarthritis*

Funding made possible by Stryker Corporation in honor of John W. Brown

### OREF MULTIMODAL MUSCULOSKELETAL PERIOPERATIVE PAIN MANAGEMENT GRANT IN COLLABORATION WITH THE AMERICAN ASSOCIATION OF NURSE ANESTHETISTS FOUNDATION

**PI: Brendan Patterson, MD**

**Co-PI: Christine McNair, BSN, MSN**

The University of Iowa

*The Impact of Interactive Modules on Opioid Consumption and Pain Management*

Funding made possible by the

American Association of Nurse Anesthetists (AANA) Foundation

## OREF FUNDING OPPORTUNITIES

Visit [www.oref.org/grants](http://www.oref.org/grants) for deadlines and details\*

### RESIDENT RESEARCH PROJECT GRANTS ROUND 2

RFA goes live March 16, 2026

LOIs due April 16, 2026

Application deadline May 15, 2026

### MENTORED CLINICIAN SCIENTIST GRANTS

RFA goes live March 16, 2026

Application deadline May 15, 2026

\*Opportunities printed at press time are subject to change.



# OREF GRANT PROGRAM VOLUNTEERS

## RESEARCH GRANTS COMMITTEE

Francis Y. Lee, MD, PhD, <i>Chair</i>	Christopher Dy, MD	Philipp Leucht, MD, PhD	Thomas P. Sculco, MD
Nicholas M. Bernthal, MD, <i>Vice Chair</i>	Joshua J. Jacobs, MD	Andrew N. Pollak, MD	Matthew J. Silva, PhD
Brian Snyder, MD, PhD, <i>Vice Chair</i>	Marci Jones, MD	Jonathan Schoenecker, MD, PhD	Timothy Wright, PhD

## GRANT PROGRAM DIRECTORS

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Jason Dragoo, MD	Marci D. Jones, MD	Elena Losina, PhD	

## PEER REVIEWERS

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Ryan Freshman, MD	Spencer Lake, PhD	David Ring, MD, PhD	



# Making an IMPACT on Clinical Orthopaedics

*Driving innovation  
and excellence in  
musculoskeletal  
research for more  
than 70 years.*

## 1963

With funding from OREF, **Marshall Urist, MD** discovers and advances **bone morphogenetic proteins (BMPs)** that stimulate bone growth and healing.

## 1991

With funding from OREF, **Stuart L. Weinstein, MD** compiles data to help surgeons determine the **appropriate treatment for scoliosis.**

## 2025

**Laura Moore, MD, PhD** receives an OREF New Investigator Grant for research investigating the role of cellular senescence in joint stiffness.

Visit the **OREF Booth in the OrthoLive, Great Hall** to learn more about OREF's history of supporting research that leads to improvements in clinical practice.



ORTHOPAEDIC RESEARCH AND EDUCATION FOUNDATION

The Orthopaedic Research and Education Foundation (OREF) is an independent 501(c)(3) non-profit organization committed to improving clinical practice and patient outcomes by funding outstanding research and mentoring new investigators to improve the lives of patients with musculoskeletal conditions.

Since its founding, OREF has provided nearly \$150 million in orthopaedic research grants and awards. Our active grant portfolio totals 90 research grants with a value of \$5.3 million. Current funding opportunities and a list of awarded grants may be accessed at [www.oref.org/grants](http://www.oref.org/grants).



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