

# 2006 Grants and Awards Funded and Current Grant Opportunities



discovering



the future



of



orthopaedics





# 2006 Grants and Awards Funded

## CAREER DEVELOPMENT AWARDS

### **Kevin J. Bozic, M.D.**

University of California, San Francisco  
*Technology Assessment and Decision Analysis in Total Hip Arthroplasty*

Funded by the Dr. Dane and Mrs. Mary Louise Miller Endowment Fund

### **Francis Y. Lee, M.D., Ph.D.**

Columbia University  
*The Calcineurin/Nuclear Factor of Activated T Cells in UHMWPE Wear Particle-Induced Osteolysis*

Recipient of the Thomas M. Coffman Career Development Award

### **Zhongyu J. Li, M.D., Ph.D.**

Wake Forest University  
*The Role of GH/IGF-1 in Neuromuscular Injury During Aging*

Funded by the Dr. Dane and Mrs. Mary Louise Miller Endowment Fund

## RESEARCH GRANTS

### **Theodore A. Blaine, M.D.**

Columbia University  
*Developing New Targeted Therapeutics to Replace NSAIDs and Steroids in Treating Shoulder Impingement Syndrome: Chemokine Expression and Regulation in Subacromial Bursitis and Rotator Cuff Disease*

### **Bang H. Hoang, M.D.**

University of California, Irvine  
*Secreted Wnt Inhibitors in Osteosarcoma Biology*

### **Joshua D. Miller, M.D., Ph.D.**

University of Michigan  
*In Vivo Suppression of a Fracture Healing Inhibitor to Promote Bone Regeneration: Downregulation of Thrombospondin-2 Production Using RNA Interference (RNAi)*

Funded by the Dr. Dane and Mrs. Mary Louise Miller Endowment Fund

### **William T. Obrebsky, M.D.**

Vanderbilt University  
*Prospective Study of Cognitive Impairment in Trauma Patients Without Closed Head Injury*

Funded by the Dr. Dane and Mrs. Mary Louise Miller Endowment Fund

### **Albert W. Pearsall IV, M.D.**

University of South Alabama  
*The Involvement of Mitochondrial DNA Damage in Chondrocyte Dysfunction and Apoptosis Following Nitric Oxide Exposure*

Partially funded by the American Arthritis Society, Inc.

### **Nelson F. SooHoo, M.D.**

University of California, Los Angeles  
*Development and Testing of Quality of Care Indicators for Total Joint Replacement*

### **Lawrence X. Webb, M.D.**

Wake Forest University  
*Targeting the Glycocalyx (capsule/exopolysaccharide) to Reduce Bone / Implant Related Infections*

## PROSPECTIVE CLINICAL RESEARCH GRANTS

### **Brett D. Owens, M.D.**

Keller Army Hospital  
*Risk Factors for Shoulder Instability*

## RESIDENT RESEARCH GRANTS

### **Luke S. Choi, M.D.**

University of Virginia  
*Posterolateral Spinal Fusions Using Multipotential Adipose-derived Stromal Cells in an Activated Matrix Treated with GDF-5*

Recipient of the Charles H. Herndon Residency Research Award

Funded by the Musculoskeletal Transplant Foundation

### **Matthew E. Cunningham, M.D.**

Hospital for Special Surgery  
*Development of Mouse Model, and Pilot Histological and Biochemical Evaluation of Molded Vascularized Bone Grafts in Mice*

Funded by the Ira A. Roschelle, M.D. Family Foundation

# 2006 Grants and Awards Funded

## **Douglas A. Dennis, M.D.**

University of California, Davis

*Role of Catabolic Cytokines and Bone Morphogenetic Proteins in the Expression of Articular Cartilage Superficial Zone Protein*

Recipient of the Katherine Wolcott Walker Resident Research Award

## **Todd A. Fairchild, M.D.**

University of Iowa

*Bifidobacterium as an Anti-cancer Vector Directed Against Swarm Rat Chondrosarcoma*

Recipient of the Marshall F. Urist Residency Research Award

Funded by the Association of Bone and Joint Surgeons

## **Brock A. Lindsey, M.D.**

West Virginia University

*Interleukin-12 Therapy to Prevent Osteomyelitis After Open Fracture in the Trauma Setting*

## **Eric Ricchetti, M.D.**

University of Pennsylvania

*The Effect of IL10 Overexpression on the Biomechanical and Histological Properties of Healing Tendon*

## **Jonathan G. Schoenecker, M.D., Ph.D.**

Vanderbilt University

*Novel Role of Proteases in Osteoblast Biology*

Recipient of the Charles H. Herndon Residency Research Award

Funded by the Musculoskeletal Transplant Foundation

## **Sanjeev J. Suratwala, M.D.**

Columbia University

*The Effects of Bisphosphonate / Hydroxyapatite Coating on Implant Fixation and Periprosthetic Osteolysis*

## *OREF CLINICAL AWARD*

## **Kevin J. Bozic, M.D.**

University of California, San Francisco

*Using Clinical and Economic Outcome Data to Influence Health Policy in the United States:*

*The Case of Total Joint Replacement*

*CLINICAL RESEARCH TRAINING FELLOWSHIP  
(Formerly - HEALTH SERVICES RESEARCH FELLOWSHIP)*

## **S. Samuel Bederman, M.D.**

University of Toronto

*ZIMMER ORTHOPAEDIC CAREER  
DEVELOPMENT AWARDS*

## **Mohit Bhandari, M.D.**

McMaster University

*Hip Fracture Evaluation with Alternatives of Total Hip Arthroplasty Versus Hemi-Arthroplasty (HEALTH)*

## **Susan V. Bukata, M.D.**

University of Rochester

*Use of PTH in Difficult to Heal Fractures: A Pilot Study*

## **A. Bobby Chhabra, M.D.**

University of Virginia

*Tissue Engineering for Patellar Tendon Repair in Acute or Chronic Injuries*

## **Richard J. de Asla, M.D.**

Massachusetts General Hospital

*The Effect of Tibiotalar Arthritis on In-vivo Ankle Joint Complex Kinematics*

## **Aham E. Onyike, M.D.**

Howard University College of Medicine

*Effect of Tibial Base Plate Post on Strength of Fixation and Load Transfer in Primary Total Knee Arthroplasty*

## **Ashraf Ragab, M.D.**

University of Mississippi

*Chondrocyte Response to Sustained Release of Growth Factors in a Degenerative Intervertebral Disc Rat Model*

## **Francis H. Shen, M.D.**

University of Virginia

*The Use of Multipotential Adipose Derived Stromal Cells in an Activated Matrix for Osteogenesis*

# 2006 Grants and Awards Funded

## DIRECTED RESEARCH GRANTS AND AWARD

*OREF/Pfizer Fellowship Award in Pain Management*

**Tony S. Wanich, M.D.**

Hospital for Special Surgery

*Efficacy of a Percutaneous Neuromodulation Pain Therapy Following Total Knee Replacement*

*OREF/Ortho Biotech Award for Excellence in Blood Management*

**Friedrich Boettner, M.D.**

Hospital for Special Surgery

*Blood Management in Patients Undergoing Bilateral Total Knee Arthroplasty*

*OREF/Orthofix Research Grant*

**Nicola C. Partridge, Ph.D.**

UMDNJ - Robert Wood Johnson Medical School

*Mechanisms Involved in PEMFs Effects on Bone Formation*

## STATE SOCIETY LECTURESHIPS

**Arkansas Orthopaedic Society**

**California Orthopaedic Association**

**Florida Orthopaedic Society**

**Hawaii Orthopedic Association**

**Indiana Orthopaedic Society**

**Iowa Orthopaedic Society**

**Kansas Orthopaedic Society**

**Louisiana Orthopaedic Society**

**Maryland Orthopaedic Association**

**Michigan Orthopaedic Society**

**Mississippi Orthopaedic Society**

**Missouri State Orthopaedic Association**

**Ohio Orthopaedic Society**

**Pennsylvania Orthopaedic Society**

**Texas Orthopaedic Association**

**Virginia Orthopaedic Society**

**Washington State Orthopaedic Society**

**West Virginia Orthopaedic Society**

**Wisconsin Orthopaedic Society**

## HARK LECTURESHIPS

**Case Western Reserve / University Hospitals of Cleveland**

**Dartmouth College**

**Eastern Orthopaedic Association**

**Fort Wayne Medical Education Program**

**Mid-America Orthopaedic Association**

**Mid-Central States Orthopaedic Society**

**Southern Orthopaedic Association**

**University of Illinois at Chicago**

**University of Pennsylvania**

**University of Washington**

**Western Orthopaedic Association**

## EDUCATIONAL GRANTS

**American Academy of Orthopaedic Surgeons**

*Extremity War Injuries: Current, State of the Art, and Future Directions (EWI)*

**Indiana University**

*36th International Sun Valley Skeletal Tissue Workshop*

**Journal of Bone and Joint Surgery**

*Web-Based Educational Enhancements of Peer-Reviewed Scientific Articles*

**Massachusetts General Hospital, Harvard Medical School**

*Development of a Computerized Orthopaedic Pathophysiologic Teaching System for Residents and Staff Based on the Jaffe, Erdheim and Campbell Collections (JEC Collection)*

**Mayo Clinic Orthopedic Residency Program**

*Interactive Anatomy of the Hand; An Innovative Approach to Orthopaedic Resident Education*

**Orthopaedics Overseas**

*OREF-OO Traveling Fellowship*

**Shriners Hospital for Children, Portland**

*International Workshop on the Skeletal Growth Plate*

**Stanford University**

*Three-Dimensional Musculoskeletal Anatomy and Pathophysiology (3-D MAP) Visualization and Enhanced Learning Module*

# 2006 Grants and Awards Funded

## *JBJS RESIDENT JOURNAL CLUB GRANTS*

**Baylor College of Medicine**  
**Carolinas Medical Center**  
**Dartmouth Hitchcock Medical Center**  
**Emory University**  
**Grand Rapids Medical Education and Research Center**  
**Loyola University Medical Center**  
**Michigan State University**  
**Southern California Center for Sports Medicine**  
**Southern Illinois University**  
**Tufts/New England Medical Center**  
**Tulane University**  
**UMDNJ - Robert Wood Johnson Medical School**  
**University of Calgary**  
**University of California, Irvine**  
**UCLA/University of California, Los Angeles**  
**University of Cincinnati**  
**University of Colorado**  
**University of Florida Jacksonville HSC**  
**University of Kansas**  
**University of Massachusetts**  
**University of Michigan**  
**University of Missouri - Columbia**

**University of Missouri - Kansas City**

**University of Nebraska**

**University of Pittsburgh**

**University of Sherbrooke**

**University of Southern California**

**University of Texas - San Antonio**

**University of Vermont**

**Vanderbilt University**

## *MEDICAL STUDENT SUMMER ORTHOPAEDIC RESEARCH FELLOWSHIPS*

**10 Fellowships to be Awarded at \$2,500 each**

## *MISCELLANEOUS GRANTS*

**American Academy of Orthopaedic Surgeons**

*The Clinician Scientist Traveling Fellowship*

**American Academy of Orthopaedic Surgeons**

*The Clinician Scientist Development Program*

**American Academy of Orthopaedic Surgeons**

*Developmental Biology in Orthopaedics (DBO) Research Symposium*

**ORS/OREF/AAOS Grant Writing Workshop**

*May, 2006*

**ORS/OREF Grant Writing Workshop**

*March, 2006*

**BONES Society, Inc.**

**Patel Traveling Fellowship**

New grant opportunities will be available for 2007 funding.  
Some new opportunities include:

**The OREF/ Sanofi~Aventis Clinical Research Training Fellowship** — Sanofi~Aventis will partner with OREF to fund a new \$140,000, two-year clinical research training fellowship to be awarded on the topic of Joint Replacement.

The fellowship will be awarded to a physician who desires a career involving outcomes and health policy research and has completed an accredited North American orthopaedic residency. The candidate must be recommended by the chair of the Department of Orthopaedics.

This fellowship will provide \$70,000 per year for two years for a physician working toward a Masters in Public Health (M.P.H.). During the two years, the fellow will:

- Complete courses on the methods of outcomes and health services research.
- Be appointed to the Department of Orthopaedics where he or she will have some clinical exposure.
- Conduct an orthopaedic project on total joint replacement, to include DVT.

Fellows will have a choice of institutions from which to select a site for training. To receive an application, please contact **Mary Marino** at (847) 384-4359 or marino@oref.org. The deadline for submission is August 1, 2006.

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**The OREF/NIAMS Postdoctoral NRSA Fellowship** — OREF will partner with the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) division of the National Institutes of Health to fund the Individual Postdoctoral National Research Service Award (NRSA) Fellowship in Epidemiology, Clinical Trials Research, and Outcomes Research in Orthopaedic Surgery. The grant will support up to two individuals per year for two years.

Eligible candidates include individuals who have completed at least three years of a clinical orthopaedic residency program, but are no more than five years from completion of orthopaedic clinical training.

The program will allow Fellows to:

- Receive an NRSA Fellowship from NIAMS, including some tuition support.
- Receive a Masters in Public Health or similar degree.
- Begin a Ph.D. course of study during the two years of the fellowship.
- Develop into orthopaedic surgeon clinician scientists who are prepared to become independent, scientific investigators in epidemiology, clinical trials research, and outcomes research in orthopaedic surgery.

A NIAMS review panel will make funding decisions, then supply OREF with the names of the fellows and the institutions through which they would like to complete their fellowship. OREF will make arrangements with the institutions to provide a \$30,000 annual supplementation of the NRSA stipend. More information will be available at [www.oref.org](http://www.oref.org).

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Applications for OREF Career Development Awards, Research Grants, Prospective Clinical Research Grants, and Resident Research Grants, including 15 new Resident Grants supported by DePuy, will be available for 2007 funding. Most applications will be due by October 1, 2006, but please check [www.oref.org](http://www.oref.org) for updated information. Please address questions to **Jean McGuire** at mcguire@oref.org or (847) 384-4348.

For Information on how to apply for OREF Grants and Awards,  
please access **[www.oref.org](http://www.oref.org)** or call or e-mail:

**Carmen Metoyer**

Grants Administrator

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(847) 384-4351

**Mary Marino**

Grants Administrator

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**Jean McGuire**

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**Orthopaedic Research  
and Education Foundation**