2006 Grants and Awards Funded and Current Grant Opportunities

discovering

the future

of

orthopaedics

Orthopaedic Research & Education Foundation
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 UHMWEPE 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. Obremskey, 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/exopolysaccaride) 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*

**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 CARE 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*

**Ahm 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

**HARK LECTURESHPIS**

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

**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

**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.

**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.

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 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 or call or e-mail:

**Carmen Metoyer**
Grants Administrator
metoyer@oref.org
(847) 384-4351

**Mary Marino**
Grants Administrator
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(847) 384-4359

**Jean McGuire**
Vice President, Grants/CFO
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