

Kappa Delta & Orthopaedic Research Education Foundation Award History  
1950-2024

**1950 Winner(s)**

**Researcher(s):** Dr Marshall R. Urist and Colleagues

**Project:** The Mechanism of Endosteal Bone Formation in Estrogen Treated Mice

**1951 Winner(s)**

**Researcher(s):** Dr Vernon P. Thompson and Dr Vernon D. Epstein

**Project:** Traumatic Dislocation of the Hip, A Survey of 204 Cases Covering a Period of Twenty-One Years

**1952 Winner(s)**

**Researcher(s):** Dr Robert A. Robinson

**Project:** An Electron Microscopic Study of the Crystalline Inorganic Component of Bone and its Relationship to the Organic Matrix

**1953 Winner(s)**

**Researcher(s):** Dr Charles F. Gregory and Dr George J. Garceau

**Project:** Bone Healing by Vital Staining Methods

**1954 Winner(s)**

**Researcher(s):** Dr Robert D. Ray

**Project:** The Development of Experimental Techniques and Their Application to Studies of Bone Growth and Metabolism

**1955 Winner(s)**

**Researcher(s):** Dr Charles W. Goff

**Project:** The Legg-Calve-Perthes Syndrome

**1956 Winner(s)**

**Researcher(s):** Dr Ignacio V. Ponseti

**Project:** Lesions of the Skeleton and Other Mesodermal Tissues which might be due to Aminoitrile Intake

**1957 Winner(s)**

**Researcher(s):** Dr Leonard F. Peltier

**Project:** An Appraisal of the Problem of Fat Embolism

**1958 Winner(s)**

**Researcher(s):** Dr W.F. Enneking

**Project:** The Effect of Total Body Irradiation on Bone Transplants in Parabiosed Animals

**1959 Winner(s)**

**Researcher(s):** Dr Melvin J. Glimcher

**Project:** Molecular Structure and Biological Specificity in Mineralization

**1960 Winner(s)**

**Researcher(s):** Dr William S. Smith

**Project:** A Correlated Clinical and Experimental Approach to the Etiology of Congenital Dislocation of the Hip

**1961 Winner(s)**

**Researcher(s):** Dr Kirk J. Anderson

**Project:** Experimental Investigations of Large and Small Fragment Bone Implants and Extracts of Heterogenous Bone

**1962 Winner(s)**

**Researcher(s):** Dr Robert C. Mellors

**Project:** Rheumatoid Arthritis and the Cellular Origin of Rheumatoid Factors

**1963 Winner(s)**

**Researcher(s):** Dr Mary S. Sherman and Dr Roshen Irani

**Project:** The Pathologic Anatomy of the Clubfoot

**Researcher(s):** Dr J. William Fielding

**Project:** Cineradiography

**Researcher(s):** Dr Paul H. Curtis, Jr, and Dr LeRoy Klein

**Project:** Possible Mechanisms of Articular Cartilage Destruction in Septic Arthritis

**1964 Winner(s)**

**Researcher(s):** Dr George W.N. Eggers

**Project:** Cystic Change in the Iliac Acetabulum

**Researcher(s):** Dr William F. Neuman, PhD

**Project:** The Current Status of the Mechanisms of Calcification

**1965 Winner(s)**

**Researcher(s):** Dr Jerome Gross

**Project:** Mechanism of Connective Tissue Remodeling

**Researcher(s):** Dr O. Donald Chrisman

**Project:** Biochemical Aspects of Osteoarthritis

**Researcher(s):** Dr Richard S. Riggins and Dr Yosef H. Pilch

**Project:** Studies of the Antigenicity of Fibrosarcoma

**1966 Winner(s)**

**Researcher(s):** Dr Carl E. Anderson

**Project:** Invasion and Resorption in Enchondral Ossification: An Electron Microscopic Study

**1967 Winner(s)**

**Researcher(s):** Dr Gerald A.M. Finerman and Dr Leon E. Rosenberg

**Project:** Regulation of Amino Acid Transport and Collagen Synthesis in Fetal Rat Bone

**Researcher(s):** Dr Robert L. Fisher and Dr Frances DeGeorge, MA

**Project:** Idiopathic Scoliosis: An Investigation of Genetic and Environmental Factors

**1968 Winner(s)**

**Researcher(s):** Dr James M. Burkhart

**Project:** Parathyroid and Thyroid Hormones in the Development of Immobilization Osteoporosis

**Researcher(s):** Dr G.V.B. Cochran

**Project:** Electromechanical Characteristics of Moist Bone

**Researcher(s):** Dr Wayne H. Akeson

**Project:** Experimental Arthroplasty of the Canine Hip: Extra cellular Matrix Composition in Non-Interpositional Arthroplasty and Cup Arthroplasty

**1969 Winner(s)**

**Researcher(s):** Dr Sandy C. Marks, Jr, DDS., PhD

**Project:** The Parafollicular Cell of the Thyroid Gland as the Source of a Potent Osteoblast-Stimulating Factor. Evidence from Experimentally Osteopetrotic Mice

**Researcher(s):** Dr Walter Abendschein and Dr George W. Hyatt

**Project:** Ultrasonics and Selected Physical Properties of Bone

**Researcher(s):** Dr J. Robert Close

**Project:** The Functions of the Muscles of the Thumb, the Middle and Index Fingers

**1970 Winner(s)**

**Researcher(s):** Dr William H. Harris and Dr Robert H. Heaney

**Project:** Growth Hormone: The Effect on Skeletal Renewal in the Adult Dog

**Researcher(s):** Dr Lawrence C. Rosenberg

**Project:** Chemical Basis for the Histologic Use of Safranin O in the Study of Articular Cartilage

**Researcher(s):** Dr Jorge Galante, Dr William Rostoker, PhD, Dr Roger Lueck, and Dr Robert D. Ray, PhD

**Project:** Sintered Fiber Metal Composites as a Basis for Attachment of Implants to Bone

**1971 Winner(s)**

**Researcher(s):** Dr Clive C. Solomons, PhD, Dr Edward A. Milar, Dr William E. Hathaway, and Dr John E. Ott

**Project:** Osteogenesis Imperfecta: New Perspectives in Diagnosis and Treatment

**Researcher(s):** Dr. Reginald R. Cooper

**Project:** Skeletal Muscle Alterations During Immobilization, Denervation, Regeneration and Embryonic Myogenesis

**Researcher(s):** Dr Joseph M. Lane, Dr Darwin J. Prockop, Dr Peter Dehm, PhD, and Dr Lincoln J. Parkes, DVM

**Project:** Inhibition of Collagen Synthesis in Chick Embryos by the Proline Analogue L-Azetidine-2-Carboxylic Acid

### **1972 Winner(s)**

**Researcher(s):** Dr Burton W. Marsh, Dr Leo Flynn, and Dr William F. Enneking

**Project:** Immunologic Aspects of Osteosarcoma

**Researcher(s):** Dr Adrian E. Flatt

**Project:** Problems in the Treatment of Ulnar Drift

**Researcher(s):** Dr B. Lawrence Riggs

**Project:** Bone Turnover--Sex Hormone--Parathyroid Hormone Relationships in Post-Menopausal Osteoporosis

### **1973 Winner(s)**

**Researcher(s):** Dr Eric L. Radin, Dr Igor L. Paul, SCD, and Dr Robert M. Rose, ScD

**Project:** Studies of Joint Function

**Researcher(s):** Dr F. Richard Convery, Dr Donald R. Gunn, FRCS, Dr J. David Hughes, and Dr Wayne E. Martin

**Project:** The Systemic Manifestations of Polymethyl Methacrylate

**Researcher(s):** Dr Stephen M. Krane, Dr Sheldon R. Pinnell, and Dr Richard W. Erbe

**Project:** Collagen Lysyl Hydroxylase Deficiency: A New Heritable Disorder of Connective Tissue

### **1974 Winner(s)**

**Researcher(s):** Dr Carl T. Brighton

**Project:** Significance of Tissue Oxygen Tension, Glycolysis and Mitochondrial Calcium Release in Epiphyseal Plate Calcification

**Researcher(s):** Dr Edward D. Harris, Jr, and Dr Peter A. McCroskery, MS

**Project:** Degradation of Human Cartilage Collagen Fibrils by Rheumatoid Synovial Collagenase

**Researcher(s):** Dr. Frederic W. Rhinelander

**Project:** Circulation in Bone

### **1975 Winner(s)**

**Researcher(s):** Dr David S. Howell, PhD, Dr David Simon, PhD, and Dr Julio C. Pita, PhD

**Project:** Role of Extracellular Matrix Vesicles in Initial Calcification of Healing Rachitic Cartilage

**Researcher(s):** Dr Jennifer Jowsey, PhD

**Project:** Morphological Studies of the Etiology and Treatment of Osteoporosis

**Researcher(s):** Dr Henry J. Mankin

**Project:** Metabolism of Articular Cartilage in Health and Disease

### **1976 Winner(s)**

**Researcher(s):** Dr William H. Harris

**Project:** Post-Operative Thromboembolic Disease: The Results of a Concerted Attack on a Complex Problem

**Researcher(s):** Dr Augusto Sarmiento and Dr Loren Latta, P. Eng

**Project:** Factors Controlling the Behavior of Tibial Shaft Fractures--A Correlation of Laboratory and Clinical Studies

**Researcher(s):** Dr Augustus A. White, III, Dr Manohar M. Panjabi, PhD, Dr Edmund S. Crelin, PhD, and Dr Wayne O. Southwick

**Project:** A Quantitative Biomechanical Study of Fracture Repair

**1977 Winner(s)**

**Researcher(s):** Dr Frank R. Noyes and Dr Edward S. Grood, PhD

**Project:** Functional Properties of Knee Ligaments and Alterations Induced by Immobilization

**Researcher(s):** Dr Jacquelin Perry and Dr M. Mark Hoffer

**Project:** Pre and Post-Operative Studies of Muscle Activity in the Cerebral Palsied Child Using Dynamic Electromyography as an Aid in Planning Tendon Transfers

**Researcher(s):** Dr Aaron S. Posner, PhD

**Project:** The Relation of Synthetic Amorphus Calcium Phosphate to Bone Mineral Structure

**1978 Winner(s)**

**Researcher(s):** Dr Klaus E. Kuettner, PhD

**Project:** The Resistance of Cartilage to Normal and Neoplastic Invasion

**Researcher(s):** Dr. Robert W. Bright

**Project:** Surgical Correction of Partial Growth Plate Closure--Experience with 52 Children

**Researcher(s):** Dr John E. Kenzora, Dr Robert E. Steele, and Dr Zvi H. Yosipovitch

**Project:** Experimental Osteonecrosis of the Femoral Head in Adult Rabbits

**1979 Winner(s)**

**Researcher(s):** Dr Adele L. Boskey, PhD

**Project:** Calcium Acidic Phospholipid Phosphate Complexes in Tissue Mineralization

**Researcher(s):** Dr William T. Green, Jr

**Project:** Articular Cartilage Repair: Investigation by the Cell Culture of Isolated Chondrocytes

**Researcher(s):** Dr A. Seth Greenwald, PhD, and Dr Mary-Blair Matejczyk

**Project:** Comparative Mechanics of the Hip and Ankle

**1980 Winner(s)**

**Researcher(s):** Dr Thomas E. Whitesides, Jr, Dr Hiroshi Harada, and Dr Kazuo Morimoto

**Project:** Compartment Syndromes and the Role of Fasciotomy, its Parameters and Techniques

**Researcher(s):** Dr James A. Rand

**Project:** A Comparison of Open Intramedullary Nailing and Compression Plate Fixation on Fracture Site Blood Flow and Fracture Union

**1981 Winner(s)**

**Researcher(s):** Dr Van C. Mow, PhD, and Dr Cecil G. Armstrong, PhD

**Project:** Variations in the Intrinsic Mechanical Properties of Human Articular Cartilage with Age, Degeneration and Water Content

**Researcher(s):** Dr Marshall R. Urist

**Project:** New Bone Formation Induced in Post-Fetal Life by Bone Morphogenetic Protein"

**Researcher(s):** Dr Theodore R. Oegema, Jr, PhD

**Project:** Proteoglycan Synthesis and Structure in Human and Rabbit Nucleus Pulposus: A Possible Relationship to Function

**Researcher(s):** Dr Wilson C. Hayes, PhD

**Project:** Stress-Morphology Relationships in Trabecular Bone of the Patella

**1982 Winner(s)**

**Researcher(s):** Dr H. Clark Anderson

**Project:** Matrix Vesicle Calcification

**Researcher(s):** Dr Gary E. Friedlaender

**Project:** Apropos Bone Allografts

**Researcher(s):** Dr Alfred B. Swanson

**Project:** Bone Remodeling Phenomena in Flexible (Silicone) Implant Arthroplasty in the Hand--Long Term Study

**Researcher(s):** Dr Richard A. Brand, Dr Roy D. Crowninshield, PhD, and Richard C. Johnston

**Project:** Muscle and Joint Force Predictions and Their Uses

**1983 Winner(s)**

**Researcher(s):** Dr Savio L-Y Woo, PhD

**Project:** Internal Fixation Plates for Fracture Management--New Design Concepts

**Researcher(s):** Dr William J. Landis, PhD

**Project:** Studies of Mineralizing Tissues Using Anhydrous Techniques for Electron Optical and Microprobe Analysis

**Researcher(s):** Dr Robert H. Fitzgerald, Jr

**Project:** The Pharmacokinetics of Antibiotics in Normal and Osteomyelitic Bone

**Researcher(s):** Dr Thomas P. Andriacchi, PhD

**Project:** Interaction Between Knee Joint Mechanics and Patient Function Following Total Knee Replacement

**1984 Winner(s)**

**Researcher(s):** Dr Michael G. Ehrlich

**Project:** Degradative Enzyme Systems in Cartilage

**Researcher(s):** Dr Raymond T. Morrissy and Dr Darrel W. Haynes, PhD

**Project:** Acute Hematogenous Osteomyelitis: A Model with Trauma as an Etiologic Agent

**Researcher(s):** Dr Kai-Nan An, Ph.D., Dr. Edmund Y.S. Chao, Ph.D., Dr. William P. Cooney, III, and Dr. Ronald L. Lincheid

**Project:** Biomechanics of the Hand--A Basic Research Study

**Researcher(s):** Dr R. William Petty

**Project:** Influence of Skeletal Implant Materials on Infection

### **1985 Winner(s)**

**Researcher(s):** Dr Richard H. Gelberman and Dr Paul R. Manske

**Project:** Flexor Tendon Repair

**Researcher(s):** Dr Clinton T. Rubin, PhD

**Project:** The Osteoregulatory Nature of Mechanical Stimuli

**Researcher(s):** Dr Christopher H. Evans, PhD

**Project:** Ferrographic and Biochemical Studies on the Wear Particles of Human and Prosthetic Joints

**Researcher(s):** Dr Victor M. Goldberg, Dr E. Power, Dr John W. Shaver, Dr Jaclyn M. Zika, PhD, Dr Gary Bos, and Dr Kingsbury G. Heiple

**Project:** Bone Grafting: The Barrier to Transplantation

### **1986 Winner(s)**

**Researcher(s):** Dr Bruce Heppenstall, Dr Alexander Sapega, and Dr Bruce Chance, PhD

**Project:** Intracellular Energy Metabolism During Ischemia and Skeletal Muscle under Various Clinical Conditions with Articular Reference to <sup>31</sup>P-NMR Spectroscopy as a New Investigative Diagnostic Technique

**Researcher(s):** Dr Andrew J. Weiland

**Project:** Fate of Vascularized Bone Grafts

**Researcher(s):** Dr Edith R. Schwartz, PhD

**Project:** Phosphorylation of Proteoglycans and Link Proteins in Human Articular Cartilage

**Researcher(s):** Dr William F. Blair, Dr Thomas D. Brown, PhD, and Dr E.R. Greene, PhD

**Project:** Pulsed Ultrasound Doppler Velocimetry in the Assessment of Microvascular Hemodynamics

### **1987 Winner(s)**

**Researcher(s):** Dr Alan R. Hargens, PhD, Dr Wayne H. Akeson, and Dr Scott J. Mubarak

**Project:** Tissue Fluid Pressures: From Basic Research Tools to Clinical Application

**Researcher(s):** Dr. Steven P. Arnoczky, DVM

**Project:** The Meniscus: Its Repair and Replacement

**Researcher(s):** Dr Robert B. Salter

**Project:** The Biological Concept of Continuous Passive Motion of Synovial Joints: The First 16 Years of Basic Research and its Clinical Application

**Researcher(s):** Dr Jane B. Lian, PhD

**Project:** Osteocalcin: Properties, Synthesis, and Role in Bone Resorption

### **1988 Winner(s)**

**Researcher(s):** Dr David L. Butler, PhD

**Project:** The Anterior Cruciate Ligament: Its Normal Response and Replacement Institution

**Researcher(s):** Dr Steven L. Teitelbaum

**Project:** The Cellular Mechanisms of Bone Resorption

**Researcher(s):** Dr Peter Grigg, PhD and Dr Allen H. Hoffman, PhD

**Project:** Neuronal Mechanoreceptors as a Probe for Tissue Mechanics

**1989 Winner(s)**

**Ann Doner Vaughn Award**

**Researcher(s):** Timothy M. Wright, PhD, Donald L. Bartel, PhD, and Clare M. Rimnac, PhD

**Project:** Surface Damage in Polyethylene Total Joint Components

**Elizabeth Winston Lanier Award**

**Researcher(s):** Anthony R. Poole, PhD, Carolyn Webber, MSC, Henry J. Mankin, MD, Subhash Pal, PhD, and Lawrence C. Rosenberg, MD

**Project:** Protoglycans of Human Chondrosarcomas: Immunoanalysis Using Monoclonal Antibodies to Keratan Sulfate and A Fetal-Associated Epitope

**Young Investigator Award**

**Researcher(s):** Stephen B. Tripple, MD

**Project:** Growth Factor Regulation of Cartilage

**1990 Winner(s)**

**Ann Doner Vaughn Award**

**Researcher(s):** Ernesto Canalis, MD

**Project:** The Role of Insulin-Like Growth Factor in the Local Regulation of Bone Remodeling

**Elizabeth Winston Lanier Award**

**Researcher(s):** Arnold I. Caplan, PhD

**Project:** Mesenchymal Stem Cells

**Young Investigator Award**

**Researcher(s):** Steven A. Goldstein, PhD, and Larry S. Matthews, MD

**Project:** The Mechanical, Morphologic, Architectural and Remodeling Characteristics of Trabecular Bone

**1991 Winner(s)**

**Ann Doner Vaughn Award**

**Researcher(s):** Stanley J. Bigos, MD

**Project:** A Longitudinal Prospective Study of Industrial Back Injury Reporting

**Elizabeth Winston Lanier Award**

**Researcher(s):** A.H. Reddi, PhD

**Project:** Purification, Cloning and Expression of Osteogenin, A Protein Initiator of Bone Differentiation

**Young Investigator Award**

**Researcher(s):** W.P. Andrew Lee, MD

**Project:** Toward Clinical Realization of Vascularized Limb Tissue Allografts



## **1992 Winner(s)**

### **Ann Doner Vaughn Award**

**Researcher(s):** Linda J. Sandell, PhD

**Project:** Expression of Collagen and Aggrecan Genes During Skeletal Development and Growth: Control at Transcription and Post-transcription

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Louis V. Avioli, MD

**Project:** A New Post Receptor Signalling Pathway for Parathyroid Hormone in the Osteoblast

### **Young Investigator Award**

**Researcher(s):** Sharon Stevenson, DVM, PhD

**Project:** Critical Biological Determinants of Cortical Bone Allograft Incorporation: Quantifying a Complex Process and Structure

## **1993 Winner(s)**

### **Ann Doner Vaughn Award**

**Researcher(s):** J. Grodzinsky, ScD

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Gary S. Stein, PhD, and Jane B. Lian, PhD

**Project:** Molecular Mechanisms Regulating Osteoblast Growth and Differentiation

### **Young Investigator Award**

**Researcher(s):** D. Rick Sumner, PhD, Thomas M. Turner, MD, Robert M. Urban, MD and Jorge O. Galante, MD

## **1994 Winner(s)**

### **Ann Doner Vaughn Award**

**Researcher(s):** James R. Urbaniak, MD, Anthony V. Seaber, and Long-En Chen, PhD

**Project:** Blood No Reflow in Skeletal Muscle After Replantation

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Robert J. Johnson, MD, Bruce D. Boynton, PhD, Braden C. Fleming, MS, Claude E. Nichols, MD, Per A. Renstrom, MD, PhD, Malcolm H. Pope, MD, SC, PhD, and James G. Howe, MD

**Project:** The Biomechanics of the Anterior Cruciate Ligament and Bone-Patella Tendon-Bone Graft in Vivo

### **Young Investigator Award**

**Researcher(s):** Richard L. Lieber, PhD, and Jan Friden, MD, PhD

**Project:** Mechanism and Prevention of Skeletal Muscle Injury

## **1995 Winner(s)**

### **Ann Doner Vaughn Award**

**Researcher(s):** John M. Cavanaugh, MS, A. Cuneyt Ozataktay, MD, Toshihiko Yamahita, MD, Avram Avramov, MD, Thomas V. Getchell, PhD, and Albert I. King, PhD

**Project:** Mechanisms of Low Back Pain: A Neurophysiological and Neuroanatomical Study

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Randy N. Rosier, Regis J. O'Keefe, David G. Hicks, Paul R. Reynolds, and J. Edward Puzas

**Project:** Autocrine Regulation of Cartilage

### **Young Investigator Award**

**Researcher(s):** Stephen P. Horowitz, MD

**Project:** The Biology of Aseptic Loosening of the Cemented Arthroplasty: An In-Vitro Study

## **1996 Winner(s)**

### **Ann Doner Vaughn Award**

**Researcher(s):** Malcolm H. Pope, PhD, Marianne Magnusson, and David G. Wilder, PhD

**Project:** Low Back Pain and Whole Body Vibration

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Kathryn G. Vogel, Stephen P. Evanko, and James R. Robbins, MD

**Project:** What Proteoglycan Content Says About the Medical History of Tendon

### **Young Investigator Award**

**Researcher(s):** Jon J.P. Warner, MD, Richard E. Debski, and Freddie H. Fu, MD

**Project:** A Dynamic Model for Motion and Stability of the Glenohumeral Joint

### **OREF Clinical Research Award**

**Researcher(s):** Dale M. Daniel, Donald C. Fithian, Mary Lou Stone, Barbara E. Dobson, William F. Luetzow, MD, and Kenton R. Kaufman

**Project:** A Ten-Year Prospective Outcome Study of the ACL-Injured Patient

## **1997 Winner(s)**

### **Ann Doner Vaughn Award**

**Researcher(s):** William E. Garrett, MD, Anthony V. Seaber, Thomas M. Best, Richard R. Glisson, Pantelis K. Nikolaou, MD, and Dean C. Taylor, MD

**Project:** Muscle Strain Injury: Basic Science and Clinical Application

### **Elizabeth Winston Lanier Award**

**Researcher(s):** James N. Weinstein, DO, MS, Kevin F. Spratt, G.F. Gebhart, Mamoru Kawakami, MD, Stephen T. Meller, Nobuhior Hayashi, Hwanmo Lee, and Ken-Inchi Chatani

**Project:** Lumbar Radiculopathy: An Animal Model with Relevance to Clinical Practice

### **Young Investigator Award**

**Researcher(s):** Denis R. Clohisy, MD

**Project:** Cellular Mechanisms of Tumor Osteolysis

**OREF Clinical Research Award**

**Researcher(s):** Dale M. Daniel, Marc F. Swiontkowski, MD, Diane Martin, Ruth Engelberg, and Julie Agel

**Project:** The Development and Validation of a Musculoskeletal Extremity Health Status Instrument: The Musculoskeletal Functional Assessment Instrument

**1998 Winner(s)**

**Ann Doner Vaughn Award**

**Researcher(s):** Henry A. McKellop, PhD

**Project:** Development of an Extremely Wear Resistant Ultra High Molecular Weight Polyethylene for Total Hip Replacements

**Elizabeth Winston Lanier Award**

**Researcher(s):** Bruce Caterson, PhD

**Project:** The Use of Monoclonal Antibody Technology to Study Cartilage in Health and Disease: A Retrospective and Historical Review

**Young Investigator Award**

**Researcher(s):** Farshid Guilak, PhD

**Project:** The Biomechanics of the Chondrocyte in Articular Cartilage

**OREF Clinical Research Award**

**Researcher(s):** Stuart L. Weinstein, MD

**Project:** Natural History and Long-Term Outcomes of Treatment of Pediatric Orthopaedic Conditions

**1999 Winner(s)**

**Ann Doner Vaughn Award**

**Researcher(s):** Julia Bridge

**Project:** A Genetic Approach to Bone and Soft Tissue Tumors

**Elizabeth Winston Lanier Award**

**Researcher(s):** Thomas Einhorn, MD

**Project:** A Model of Experimental Fracture Healing for Basic and Applied Research

**Young Investigator Award**

**Researcher(s):** Scott Boden, MD

**Project:** The Biology of Lumbar Spine Fusion and the Use of Bone Graft Substitutes: Present, Future, and Next Generation...

**OREF Clinical Research Award**

**Researcher(s):** Andrew L. Koman, MD, Thomas L. Smith, Zhongyu Li, Beth Paterson Smith

**Project:** Peripheral Microvascular Control Mechanisms

**2000 Winner(s)**

**Ann Doner Vaughn Award**

**Researcher(s):** L.E. Dahners, MD, and G.E. Lester, PhD

**Project:** On Changes in Length of Dense Collagenous Tissue: Growth and Contracture

**Elizabeth Winston Lanier Award**

**Researcher(s):** R. Tracy Ballock, MD

**Project:** Regulation of Endochondral Ossification by Thyroid Hormone

**Young Investigator Award**

**Researcher(s):** Qian Chen, PhD

**Project:** Molecular Regulation of Chondrocyte Differentiation

**OREF Clinical Research Award**

**Researcher(s):** Benjamin A. Alman, MD, and Jay S. Wunder, MD

**Project:** Developmental Pathways in Musculoskeletal Neoplasia: Aggressive Fibromatosis and the Wingless (Wnt) Pathway

**2001 Winner(s)**

**Ann Doner Vaughn Award**

**Researcher(s):** Scott P. Bruder, MD, PhD

**Project:** Bone Generation and Regeneration: From Embryonic Chicks to Human Clinical Therapy

**Elizabeth Winston Lanier Award**

**Researcher(s):** Myron Spector, PhD

**Project:** Expression of Muscle Action in Contraction of Chondrocytes, Osteoblasts, and Musculoskeletal Tissue Fibroblasts

**Young Investigator Award**

**Researcher(s):** Robert L. Sah, MD, ScD

**Project:** Articular Cartilage Tissue Engineering: Biological and Biomechanical Foundations

**OREF Clinical Research Award**

**Researcher(s):** Bruce J. Sangeorzan, MD, Allan Tencer, PhD, and Randy Ching, PhD

**Project:** Changes in the Talo-Calcaneal Joint in Pathological Conditions in the Hindfoot

**2002 Winner(s)**

**Ann Doner Vaughn Award**

**Researcher(s):** Joshua J. Jacobs, MD; Anastasia K. Skipor, MD; Robert M. Urban; Nadim J. Hallab, PhD; Leslie Pattern, RN; and Jonathan Black, PhD

**Project:** Systemic Implications of Total Joint Replacement

**Elizabeth Winston Lanier Award**

**Researcher(s):** James G. Wright, MD; Gillian A. Hawker, MD; and Peter C. Coyte, PhD

**Project:** Area Variation and Unmet Need for Orthopaedic Surgical Procedures

**Young Investigator Award**

**Researcher(s):** Yousef Abu-Amer, PhD

**Project:** Regulation of Inflammatory Bone Loss Diseases: Unveiling Molecular Targets for Therapeutic Intervention

**OREF Clinical Research Award**

**Researcher(s):** Joseph D. Zuckerman, MD; and Kenneth J. Koval, MD

**Project:** Hip Fractures in the Elderly: A Comprehensive Clinical and Research Approach

## **2003 Winner(s)**

### **Ann Doner Vaughn Award**

**Researcher(s):** Michael J. Bosse, MD; Ellen J. MacKenzie, PhD; James F. Kellam, MD; Andrew R. Burgess, MD; Lawrence Webb, MD; Marc F. Swiontkowski, MD; Roy Sanders, MD; Alan L. Jones, MD; Mark P. McAndrew, MD; Brendan M. Patterson, MD; Melissa McCarthy, ScD; Thomas G. Trivison, PhD; Renan C. Castillo, MS

**Project:** Limb Salvage or Amputation Following Severe Lower Extremity Trauma: The LEAP Study

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Clinton T. Rubin, PhD

**Project:** Revisiting Wolff's Law: The Physiologic Basis and Anabolic Potential of Low Magnitude, High Frequency Mechanical Signals

### **Young Investigator Award**

**Researcher(s):** Edward M. Greenfield, PhD; Yanming Bi, PhD; Ashraf A. Ragab, MD; Victor M. Goldberg, MD; Jennifer L. Nalepka, BS; Joscelyn M. Seabold, MS

**Project:** Does Endotoxin Contribute to Aseptic Loosening?

### **OREF Clinical Research Award**

**Researcher(s):** John J. Callaghan, MD; Douglas R. Pedersen, PhD; Richard C. Johnston, MD; Thomas D. Brown, PhD

**Project:** The Clinical Biomechanics of Wear in Total Hip Arthroplasty

## **2004 Winner(s)**

### **Ann Doner Vaughn Award**

**Researcher(s):** Brian D. Snyder, MD, PhD; John A. Hipp, PhD; Ara Nazarian, MSc

**Project:** Non-Invasive Prediction of Fracture Risk Due to Benign and Metastatic Skeletal Defects

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Joseph S. Torg, MD; Helene Pavlov, MD; Albert Burstein, PhD

**Project:** The Pathomechanics, Pathophysiology, and Prevention of Reversible and Irreversible Cervical Spinal Cord Injury: Results of a Thirty-Year Clinical Experience

### **Young Investigator Award**

**Researcher(s):** Johnny Huard, PhD

**Project:** Gene Therapy and Tissue Engineering Based on Muscle-Derived Stem Cells: Potential for Musculoskeletal Tissue Regeneration and Repair

### **OREF Clinical Research Award**

**Researcher(s):** Frank R. Noyes, MD; Edward Grood, PhD; Thomas Andriacchi, PhD; Sue Barber-Westin, BS

**Project:** Factors Affecting the Treatment of Anterior Cruciate Ligament-Deficient Knees with Lower Limb Malalignment and Associated Ligamentous Instabilities: A Correlated, Clinical, Biomechanical, and Dynamic Gait Analysis

## **2005 Winner(s)**

### **Young Investigator Award**

**Researcher(s):** Edward M. Schwarz, PhD

**Project:** Utility of Recombinant Adeno-Associated Virus Vectors for Orthopaedic Gene Therapy

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Darryl D. D'Lima, MD; Martin K. Lotz, MD; Clifford Colwell, Jr., MD

**Project:** Cartilage Injury Chondrocyte Apoptosis and Matrix Degradation: In Vitro, In Vivo, and Clinical Consequences

### **Ann Doner Vaughn Award**

**Researcher(s):** Paul D. Robbins, PhD; Steven C. Ghivizzani, PhD

**Project:** Gene Delivery Approaches to the Treatment of Orthopaedic Disorders

### **OREF Clinical Research Award**

**Researcher(s):** Mininder S. Kocher, MD, MPH; David Zurakowski, PhD; James R. Kasser, MD

**Project:** Septic Arthritis of the Hip in Children: An Evidenced-Based Approach to Improving Clinical Effectiveness

## **2006 Winner(s)**

### **Young Investigator Award**

**Researcher(s):** Ranjan Gupta, MD

**Project:** Schwann Cell Regulation of Chronic Nerve Injury

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Kristy Weber, MD, Michele Doucet, MS, Scott Kominsky, PhD

**Project:** Growth Factor Receptor Signaling Blockade in Renal Cell Carcinoma Bone Metastasis

### **Ann Doner Vaughn Award**

**Researcher(s):** Tong-Chuan, He, MD, PhD, Rex C. Haydon, MD, PhD

**Project:** The Distinct Roles of Bone Morphogenetic Proteins in Mesenchymal Stem Cell Differentiation

### **OREF Clinical Research Award**

**Researcher(s):** Kevin J. Bozic, MD, MBA, Patricia Katz, PhD, Jonathan Showstack, PhD, James Naessens, MPH, Harry E. Rubash, MD, Michael D. Ries, MD, Daniel J. Berry, MD

**Project:** Using Clinical and Economic Outcome Data to Influence Health Policy in the United States: The Case of Total Joint Replacement

[Back to Top](#)

## **2007 Winner(s)**

### **Young Investigator Award**

**Researcher(s):** Constance R. Chu, MD

**Project:** [Integrating Bench to Operating Room: Journey of a Clinician-Scientist](#)

### **Elizabeth Winston Lanier Award**

**Researcher(s):** Martha L. Gray, PhD, Deborah Burstein, PhD, Young-Jo Kim MD, PhD, Alice Maroudas, PhD

**Project:** Magnetic Resonance Imaging of Cartilage Glycosaminoglycan: Basic Principles, Imaging Technique, and Clinical Applications

**Ann Doner Vaughn Award**

**Researcher(s):** David L. Butler, PhD, Natalia Juncosa- Melvin, Ph.D, Gregory P. Boivin, D.V.M., Marc T. Galloway, M.D., Jason T. Shearn, Ph.D., Cynthia Gooch, B.S., Hani Awad, Ph.D.

**Project:** Functional Tissue Engineering for Tendon Repair: A Multidisciplinary Strategy using Mesenchymal Stem Cells, Bioscaffolds and Mechanical Stimulation

**OREF Clinical Research Award**

**Researcher(s):** Christian Gerber, MD, FRCSEd(hon)

**Project:** Rotator Cuff Disease: From Scientific Understanding to Patient Care

**2008 Winner(s)**

**Young Investigator Award**

**Researcher(s):** Chuan-ju Liu, PhD; Yi Luan, MD, PhD; Yan Zhang, MD, PhD; Ronald Damani Howell, BS; and Li Kong, MD

**Project:** ADAMTS-7 and ADAMTS-12: Two Novel Cartilage-Degrading Metalloproteinases

**Elizabeth Winston Lanier Award**

**Researcher(s):** Michele C. Battié, PhD; Tapio Videman, MD, PhD; Jaakko Kaprio, MD, PhD; Laura E. Gibbons, PhD; Kevin Gill, MD; Janna Saarela, MD, PhD; and Leena Peltonen, MD, PhD

**Project:** The Foundation of a New Paradigm of Disc Degeneration: The Twin Spine Study

**Ann Doner Vaughn Award**

**Researcher(s):** Karen M. Lyons, PhD and Vicki Rosen, PhD

**Project:** In Vivo Studies of BMP Pathway Activities in Chondrogenesis

**OREF Clinical Research Award**

**Researcher(s):** Hans-Christoph Pape, MD

**Project:** Effects of Changing Strategies of Fracture Fixation on Immunologic Changes and Systemic Complications After Multiple Trauma: Damage Control Orthopaedic Surgery

**2009 Winner(s)**

**Young Investigator Award**

**Researcher(s):** Stavros Thomopoulos, PhD

**Project:** Structure, Biomechanics, and Mechanobiology in the Attachment of Tendon to Bone

**Elizabeth Winston Lanier Award**

**Researcher(s):** Michael J. Yaszemski, MD, PhD and Lichun Lu, PhD

**Project:** Osteoinductive Injectable Degradable Polymeric Scaffolds for Osseous Defect Repair

**Ann Doner Vaughn Award**

**Researcher(s):** Hiroshi Kawaguchi, MD, PhD, Toru Akune, MD, PhD, Takashi Yamada, MD, PhD and Naoshi Ogata, MD, PhD

**Project:** Mouse Genetics Studies on Molecular Mechanisms Underlying Bone and Cartilage Disorders

**OREF Clinical Research Award**

**Researcher(s):** Lawrence C. Hurst, MD, Marie A. Badalamente, PhD and Edward D. Wang, MD

**Project:** Injectable Clostridial Collagenase: Striving Toward Nonoperative Treatment Options for Fibroproliferative Disorders

**2010 Winner(s)**

**Young Investigator Award**

**Researcher(s):** Brian K. Kwon, MD, PhD, FRCSC

**Project:** Cerebrospinal Fluid Pressure Monitoring and Biochemical Analysis in Acute Spinal Cord Injury - A Translational Approach

**Elizabeth Winston Lanier Award**

**Researcher(s):** Cornelia E. Farnum, DVM, PhD

**Co-Author:** Norman J. Wilsman, DVM, PhD

**Project:** Analyzing the Growth Plate in Four Dimensions - A Thirty-year Perspective on Growth Plate Dynamics

**Ann Doner Vaughn Award**

**Researcher(s):** Louis J. Soslowsky, PhD

**Project:** Understanding the Etiology, Pathogenesis, and Repair Response of Rotator Cuff Injuries: A Series of Interconnected Studies Developing and Using an Animal Model

**OREF Clinical Research Award**

**Researcher(s):** Mohit Bhandari, MD

**Co-Authors:** Gordon Guyatt, Stephen Walter, Emil Schemitsch, Dave Sanders, Marc Swiontkowski, and Paul Tornetta, III

**Project:** Setting a New Benchmark for Collaborative Trials in Trauma: The Rationale, Design, and Execution of the Study to Prospectively Evaluate Intramedullary Nails in Tibial Shaft Fractures (S.P.R.I.N.T.)

**2011 Winner(s)**

**Young Investigator Award**

**Researcher(s):** Young-Min Kwon, MD, PhD, FRCS, FRACS

**Project:** Evidence-Based Approach in Understanding 'Pseudotumour' in Metal-on-Metal Hip Replacements

**Elizabeth Winston Lanier Award**

**Researcher(s):** Howard S. An, MD

**Co-Authors:** Koichi Masuda, MD; Gabriella Cs-Szabo, PhD; Yejia Zhang, MD, PhD; Ana Chee, PhD; Gunnar B.J. Andersson, MD, PhD; Hee-Jeong Im, PhD; Eugene J-M.A. Thonar, PhD

**Project:** Intervertebral Disc Repair or Regeneration by Growth Factor and/or Cytokine Inhibitor Protein Injection

**Ann Doner Vaughan Award**

**Researcher(s):** Bang H. Hoang, MD

**Co-Authors:** Yi Guo, MD; Randall F. Holcombe, MD; Xiaolin Zi, MD

**Project:** Project: Toward Novel Therapeutic Intervention for Osteosarcoma: Clinical Implications of the WNT Pathway



**OREF Clinical Research Award**

**Researcher(s):** Donald D. Anderson, PhD

**Co-Authors:** J. Lawrence Marsh, MD; Thomas D. Brown, PhD

**Project:** The Pathomechanical Etiology of Post-traumatic Osteoarthritis Following Intra-articular Fractures

**2012 Winner(s)**

**Young Investigator Award**

**Researcher(s):** Xudong Joshua Li, MD, PhD

**Project:** GDF5 Modulation in Intervertebral Disc Degeneration

**Elizabeth Winston Lanier Award**

**Researcher(s):** Jay R. Lieberman, MD

**Project:** Regional Gene Therapy to Enhance Bone Repair

**Ann Doner Vaughan Award**

**Researcher(s):** Kurt P. Spindler, MD

**Co-Authors:** Richard D. Parker, MD, Jack T. Andrish, MD, Christopher C. Kaeding, MD, Rick W. Wright, MD, Robert G. Marx, MD, MSc, Eric C. McCarty, MD, Annunziato Amendola, MD, Warren R. Dunn, MD, MPH, Laura J. Huston, MS, Frank E. Harrell, Jr., PhD

**Project:** Prognosis and Predictors of ACL Reconstructions using the MOON Cohort: A Model for Comparative Effectiveness Studies

**OREF Clinical Research Award**

**Researcher(s):** Thomas D. Brown, PhD

**Co-Authors:** Jacob M. Elkins, MS, Douglas R. Pedersen, PhD, John J. Callaghan, MD

**Project:** Impingement and Dislocation in Total Hip Arthroplasty: Mechanisms and Consequences  
[Back to Top](#)

**2013 Winner(s)**

**Young Investigator Award**

**Researcher(s):** Elise F. Morgan, PhD

**Project:** Control of Bone Healing by Mechanical Factors

**Elizabeth Winston Lanier Award**

**Researcher(s):** Richard L. Lieber, PhD

**Co-Authors:** Samuel R. Ward, PT, PhD, Jan Friden, MD, PhD

**Project:** Design of Human Skeletal Muscles: Implications For Orthopaedic Surgery  
[More on the winners](#)

**Ann Doner Vaughan Award**

**Researcher(s):** Martha M. Murray, MD

**Co-Author:** Braden C. Fleming, PhD

**Project:** The Biology of ACL Injury and Repair

**OREF Clinical Research Award**

**Researcher(s):** Robert F. LaPrade, MD, PhD

**Co-Authors:** Steinar Johansen, MD, Lars Engebretsen, MD, PhD, Chad J. Griffith, MD / Benjamin R. Coobs, MD, Andrew G. Geeslin, MD

**Project:** Improving Outcomes for Posterolateral Knee Injuries Running Title: The Posterolateral Corner of the Knee

**2014 Winner(s)**

**Young Investigator Award**

**Researcher(s):** Brian Feeley, MD

**Project:** Understanding the development of muscle atrophy and fatty infiltration in massive rotator cuff tears

**Elizabeth Winston Lanier Award**

**Researcher(s):** Freddie H. Fu, MD

**Project:** Anatomic Anterior Cruciate Ligament Reconstruction: A Changing Paradigm

**Ann Doner Vaughan Award**

**Researcher(s):** Ken Yamaguchi, MD, MBA

**Co-Authors:** Sharlene A. Teefey, MD, Jay D. Keener, MD, Leesa Galatz, MD

**Project:** Natural History of Rotator Cuff Disease: Relationship to Surgical Indications

**OREF Clinical Research Award**

**Researcher(s):** James N. Weinstein, MD, MS

**Co-Authors:** Adam M. Pearson, MD, MS, Jon D. Lurie, MD, MS, Tor D. Tosteson, ScD, Anna N.A. Tosteson, ScD, William A. Abdu, MD, MS, Sohail K. Mirza, MD, MPH

**Project:** The Spine Patient Outcomes Research Trial (SPORT)

**2015 Winner(s)**

**Young Investigator Award**

**Researcher(s):** Robert L. Mauck, PhD

**Co-Authors:** Dawn M. Elliott, PhD and Jason A. Burdick, PhD

**Project:** Engineering Dense Connective Tissues: Mechanical, Material, and Mechanobiologic Considerations

**Ann Doner Vaughn Award**

**Researcher(s):** Steven A. Olson, MD

**Co-Authors:** Farshid Guilak, PhD, Virginia Kraus, MD, PhD, Bridgette Furman, BS, and Janet Huebner, MS

**Project:** Early Inhibition of Proinflammatory Cytokines Prevents Post-Traumatic Arthritis: Insights from the Natural History of Arthritis Developing after Intra-Articular Fracture

More on the winners

**Elizabeth Winston Lanier Award**

**Researcher(s):** William D. Bugbee, MD

**Co-Authors:** Andrea L. Pallante-Kichura, PhD, Simon Görtz, MD, Robert Sah, MD, ScD, and David Amiel, PhD

**Project:** Osteochondral Allograft Transplantation in Cartilage Repair: Graft Storage Paradigm, Translational Models, and Clinical Applications

More on the winners

**OREF Clinical Research Award**

**Researcher(s):** Stuart L. Weinstein, MD

**Co-Authors:** Lori A. Dolan, PhD

**Project:** The Evidence Base for the Prognosis and Treatment of Adolescent Idiopathic Scoliosis

**2016 Winner(s)**

**Young Investigator Award**

**Researcher:** Louis DeFrate, ScD

**Project:** The effects of ACL graft placement on in vivo knee function and cartilage thickness distributions

**Ann Doner Vaughn Award**

**Researcher:** Francis Lee, MD, PhD

**Project:** Targeting Innate Immune Inflammatory Pathways in Osteolytic Disorders: Unmasking the Two Faces of Osteoprogenitor Cells

**Elizabeth Winston Lanier Award**

**Researcher:** Edward Wojtys, MD

**Co-Author:** James A. Ashton-Miller, PhD

**Project:** On Knee Function and ACL Injury

**OREF Clinical Research Award**

**Researcher:** Timothy Hewett, PhD

**Co-Authors:** Gregory D. Myer, PhD; Kevin R. Ford, PhD; Mark Paterno, PhD; Carmen Quatman, MD, PhD

**Project:** Mechanisms and Prevention of ACL Injuries: Cutting ACL Injury Risk with Finely Sharpened Tools

**2017 Winners**

**Kappa Delta Young Investigator Award**

**Researcher:** Robin Queen, PhD, FACSM

**Project:** Using Lower Extremity Biomechanics in Patients with Ankle Osteoarthritis and Ankle Arthroplasty to Direct Clinical Care

**Kappa Delta Ann Doner Vaughn Award**

**Researcher:** Matthew Dobbs, MD

**Co-Author:** Christina Gurnett, MD, PhD

**Project:** Advancing Precision Medicine for Clubfoot Treatment through Basic Research

**Kappa Delta Elizabeth Winston Lanier Award**

**Researcher:** Scott W. Wolfe, MD

**Co-Author:** Joseph J. Crisco, III, PhD

**Project:** Kinematics of the Normal and Injured Wrist: The Importance of the Midcarpal Joint

**OREF Clinical Research Award**

**Researcher:** Henrik Malchau, MD, PhD

**Co-Authors:** Göran Garellick, MD, PhD; Daniel Berry, MD; William H. Harris, MD, ScD

**Project:** Arthroplasty Implant Registries Over The Past Five Decades: Development, Current and Future Impact

## 2018 Winners

### **Kappa Delta Young Investigator Award**

**Researcher:** Nelly Andarawis-Puri, PhD

**Co-Author:** Evan L. Flatow, MD

**Project:** Promoting Effective Tendon Healing and Remodeling

### **Kappa Delta Ann Doner Vaughn Award**

**Researcher:** Johnny Huard, PhD

**Project:** Adult Stem Cells, Blood Vessels, and Angiogenesis: Major Determinants for Musculoskeletal Tissue Repair After Injury, Disease, and Aging

### **Kappa Delta Elizabeth Winston Lanier Award**

**Researcher:** Paul E. Beaulé, MD, FRCSC

**Co-Authors:** George Grammatopoulos, MD, FRCS, PhD; Andrew Speirs, PhD; Geoffrey Ng, PhD; Sasha Carsen, MD; Hanspeter Frei, PhD; Gerd Melkus, PhD; Kawan Rakhra, MD; Mario Lamontagne, PhD

**Project:** Unravelling the Hip Pistol Grip / CAM Deformity: Origins to Joint Degeneration

### **OREF Clinical Research Award**

**Researcher:** Gregory B. Maletis, MD

**Co-Authors:** Tadashi T. Funahashi, MD; Maria C.S. Inacio, PhD; Liz Paxton, MA

**Project:** Optimizing Anterior Cruciate Ligament Reconstruction: Individualizing the Decision Making Process Using Data from the Kaiser Permanente ACLR Registry

## 2019 Winners

### **Kappa Delta Young Investigator Award**

**Researchers:** Sherry Liu, PhD

**Co-Authors:** Chantal M. de Bakker, PhD and Yihan Li, MS

**Project:** Understanding Functional Adaptation of Maternal Bone to Reproduction and Lactation

### **Kappa Delta Ann Doner Vaughn Award**

**Researchers:** Rick Wright, MD

**Co-Authors:** Amanda K. Haas, MA, Christina R. Allen, MD, Daniel E. Cooper, MD, Thomas M. DeBerardino, MD, Michael J. Stuart, MD, Brett A. Lantz, MD, Kurt P. Spindler, MD, and MARS Group

**Project:** Predictors of Clinical Outcome Following Revision Anterior Cruciate Ligament Reconstruction

### **Kappa Delta Elizabeth Winston Lanier Award**

**Researchers:** Constance R. Chu, MD

**Co-Authors:** Ashley A. Williams, MS, Jennifer C. Erhar-Hledik, PhD, Matthew R. Titchenal, PhD, Yongxian Qian, PhD, and Thomas P. Andriacchi, PhD

**Project:** Visualizing Pre-Osteoarthritis: Integrating MRI UTET2\*with Mechanics and Biology to Combat Post-Traumatic Osteoarthritis

### **OREF Clinical Research Award**

**Researchers:** L. Andrew Koman, MD

**Co-Authors:** Beth Paterson Smith, PhD and Thomas L. Smith, PhD

**Project:** Musculoskeletal Uses of Botulinum Toxins: A 30 year Translational Journey at Wake Forest School of Medicine

## 2020 Winners

### **Kappa Delta Young Investigator Award**

Researcher: Alice Huang, PhD

Co-Authors: Leesa Galatz, MD, Ronen Schweitzer, PhD

Project: Cell and molecular mechanisms of tendon development, regeneration, and scar formation

### **Kappa Delta Ann Doner Vaughn Award**

Researcher: Marc Swiontkowski, MD

Co-Authors: Mohit Bhandari, MD, FAITH Steering Committee

Project: Finding Answers to the "Unsolved Fracture": A 10-year journey - The Rationale, Design, and Execution of the Fixation Alternatives in the Treatment of Hip Fractures

### **Kappa Delta Elizabeth Winston Lanier Award**

Researcher: Carl Deirmengian, MD

Co-Authors: Keith Kardos, PhD

Project: The Discovery, Development, Characterization, and FDA Clearance of the Alpha-Defensin Test for Periprosthetic Joint Infection

### **OREF Clinical Research Award**

Researcher: Braden C. Fleming, PhD

Co-Authors: Paul D. Fadale, MD, Michael J. Hulstyn, MD, Robert M. Slavoy, MD, Glenn A. Tung, MD, Gary J. Badger, MS

Project: Long-term Outcomes of ACL Reconstruction Surgery

## 2021 Winners

### **Kappa Delta Young Investigator Award**

Researcher: Han Lin, PhD

Project: Extracellular Matrix in Cartilage Function, Regeneration and Disease: New Insights from Regulatory Proteoglycans and Collagens

### **Kappa Delta Ann Doner Vaughn Award**

Researcher: Cato T. Laurencin, MD, PhD

Co-Authors: Yusuf Khan, PhD, Lakshmi Nair PhD

Project: Bone Regenerative Engineering: A Thirty Year Experience

### **Kappa Delta Elizabeth Winston Lanier Award**

Researcher: Farshid Guilak, PhD

Co-Authors: Bradley Estes, PhD, Franklin Moutos, PhD

Project: Functional tissue engineering of articular cartilage for biological joint resurfacing

### **OREF Clinical Research Award**

Researcher: Barry Paul Boden, MD

Co-Authors: Frances T. Sheehan Gavelli, PhD

Project: Epidemiology, Mechanisms, and Prevention of Sports Injury

## 2022 Winners

### **Kappa Delta Young Investigator Award**

Researcher: Alayna Loiselle, PhD

Project: Leveraging Fundamental Tendon Cell Biology to Define Mechanistic Regulation of Tendon Homeostasis and Healing

**Kappa Delta Ann Doner Vaughn Award**

Researcher: Lawrence Bonassar, PhD

Co-Authors: Itai Cohen, PhD, Lisa Fortier DVM, PhD, Michelle Delco DVM

Project: All Mechanics are Local: Understanding the Micromechanics and Mechanobiology of Cartilage in Functional Joint Health, Disease, and Repair

**Kappa Delta Elizabeth Winston Lanier Award**

Researcher: L Scott Levin, MD, FAAOS, FACS

Project: From Replantation to Transplantation: The Evolution of Orthoplastic Extremity Reconstruction

**OREF Clinical Research Award**

Researcher: Martha M Murray, MD, FAAOS

Co-Authors: Benedikt L Proffen, MD, Dennis E Kramer, Lyle Micheli, MD, Yi-Meng Yen, MD, PhD

Project: Bridge-Enhanced ACL Restoration: Translation from Academic Lab to FDA Approval

**2023 Winners**

**Kappa Delta Young Investigator Award**

Researcher: Christopher J. Dy, MD, MPH, FACS, FAOA, FAAOS

Project: Gaining a Deeper Understanding of the Impact of Brachial Plexus Injury

**Kappa Delta Ann Doner Vaughn Award**

Researcher: Michelle Ghert, MD, FRCSC

Project: Setting a New Benchmark for Collaborative Clinical Research in Orthopaedic Oncology: The Rationale, Design and Execution of the Prophylactic Antibiotic Regimens in Tumor Surgery (PARITY) International Randomized Controlled Trial

**Kappa Delta Elizabeth Winston Lanier Award**

Researchers: METRC (Major Extremity Trauma Research Consortium)

Project: The Major Extremity Trauma Research Consortium (METRC): Development and Impact of an Orthopaedic Trauma Research Program

**OREF Clinical Research Award**

Researcher: Marc J. Philippon, MD, FAAOS

Co-Authors: Karen K. Briggs, MPH, Grant J. Dornan MS, Johnny Huard, PhD

Project: Hip Chondrolabral Dysfunction: The Road from Excision to Repair, Replacement, and Regeneration

**2024 Winners**

**Kappa Delta Young Investigator Award**

Researcher: Nathaniel Dymont, PhD, FAAOS

Project: Novel insights into the mechanical and molecular regulation of tendon development and homeostasis for directing repair

**Kappa Delta Anne Doner Vaughn Award**

Researchers: Multicenter Orthopaedic Outcomes Network (MOON) Shoulder Group: John E. Kuhn, MD, MS, FAAOS, Warren R. Dunn MD, MPH, FAAOS, Rosemary Sanders BA, Keith M. Baumgarten MD, FAAOS, Julie Y Bishop MD, FAAOS, Robert H. Brophy MD, FAAOS, James L. Carey MD MPH, FAAOS, Brian G. Holloway MDg, Grant L. Jones MD, FAAOS, C. Benjamin Ma MD, FAAOS, Robert G. Marx MD, MS, FAAOS, Eric C. McCarty MD, FAAOS, Sourav K. Poddar MD, Matthew V. Smith MD, FAAOS, Edwin E. Spencer MD, FAAOS, Armando F. Vidal MD, FAAOS, Brian R. Wolf MD, MS, FAAOS, Rick W. Wright MD, FAAOS

Project: Nonoperative Treatment and Implications of Symptomatic Atraumatic Full Thickness Rotator Cuff Tears – A Prospective Multicenter Cohort Study with 10 Year Follow-up

**Kappa Delta Elizabeth Winston Lanier Award**

Researcher: John Clohisy, MD, FAAOS

Co-Authors: Jeffrey Nepple, MS, MD, FAAOS; Paul E. Beaulé, MD, FRCSC; Ira Zaltz, MD, FAAOS; Michael Millis, MD, FAAOS; Rafael Sierra, MD, FAAOS; Young-Jo Kim, MD, PhD, FAAOS; Daniel Sucato, MS, MD, FAAOS; Ernest Sink, MD, FAAOS; The Anchor Group

Development and Implementation of a Roadmap for Improving Quality of Care in Pre-Arthritic Hip Disease: A Journey Over 20 Years

**OREF Clinical Research Award**

Researcher: Christopher H. Evans, PhD

Co-Authors: Steven C. Ghivizzani, PhD, and Paul D. Robbins, PhD

Project: Osteoarthritis Gene Therapy: A 30-year journey from concept to clinical trials