



### Visiting Professorship Series-Academic Year 2020-2021

**Tuesday, December 8, 2020, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Skeletal Dysplasia in Neurofibromatosis Type 1*

Florent Elefteriou, Ph.D., Associate Professor of Orthopaedic Surgery and Molecular and Human Genetics  
Associate Director for the Center for Skeletal Medicine and Biology

**Wednesday, November 18, 2020, 8:00am – 6:00pm, Smilow Rubinstein Auditorium/Commons**

**ANNUAL SCIENTIFIC SYMPOSIUM (all day event)**

Keynote Speaker - Richard L. Lieber, Ph.D., Chief Scientific Officer and Senior Vice President, Shirley Ryan Ability Lab  
Professor of Physiology and Biomedical Engineering, Northwestern University

**Tuesday, September 8, 2020, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Regenerative Rehabilitation: Applied biophysics meets stem cell therapeutics*

Fabrisia Ambrosio, Ph.D., MPT, Associate Professor of Physical Medicine & Rehabilitation  
Director of Rehabilitation for UPMC International, University of Pittsburgh

### Visiting Professorship Series-Academic Year 2019-2020

**Tuesday, June 2, 2020, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Biomanufacturing, Biomaterials and Biomechanics for Improved Treatment of Volumetric Muscle Loss Injuries*

George Christ, Ph.D., Professor of Biomedical Engineering and Orthopaedic Surgery; Mary Muilenburg Stamp Professor of Orthopaedic Research; Director of Basic and Translational Research in Orthopaedic Surgery; University of Virginia

~~**Tuesday, May 5, 2020, 1:30pm – 2:30pm, CRB Austrian Auditorium**~~ **Cancelled due to Coronavirus (waiting on date)**

*Title: Gauging Tendon Mechanics by Observing Tissue Dynamics*

Darryl Thelen, Ph.D., Professor: Mechanical Engineering; Professor: Biomedical Engineering  
Affiliate Professor: Orthopedics and Rehabilitation, University of Wisconsin-Madison

~~**Tuesday, April 14, 2020, 1:30pm – 2:30pm, CRB Austrian Auditorium**~~ **Cancelled due to Coronavirus rescheduled September 8, 2020**

*Title: Regenerative Rehabilitation: Applied biophysics meets stem cell therapeutics*

Fabrisia Ambrosio, Ph.D., MPT, Associate Professor of Physical Medicine & Rehabilitation  
Director of Rehabilitation for UPMC International, University of Pittsburgh

~~**Tuesday, March 17, 2020, 1:30pm – 2:30pm, CRB Austrian Auditorium**~~ **Cancelled due to Coronavirus rescheduled December 8, 2020**

*Title: Skeletal Dysplasia in Neurofibromatosis Type 1*

Florent Elefteriou, Ph.D., Associate Professor of Orthopaedic Surgery and Molecular and Human Genetics  
Associate Director for the Center for Skeletal Medicine and Biology

**Tuesday, February 25, 2020, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Microtubules, Osteocyte Mechanotransduction, and the Surprising Regulation of Sclerostin"*

Joseph P. Stains, Ph.D., Associate Professor of Mechanical Engineering, Interim Director of Musculoskeletal Research, University of Maryland

**Tuesday, January 21, 2020, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Imaging across scales: visualizing tissue to subcellular mechanobiology in cartilage health and disease.*

Corey Neu, Ph.D., Donnelly Family Endowed Associate Professor of Mechanical Engineering, University of Colorado, Boulder

**Tuesday, December 10, 2019, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Osteoarthritis: Thinking Beyond the Cartilage*

Kyle Allen, Ph.D., Associate Professor, Associate Chair for UG Studies, ABET Coordinator, J. Crayton Pruitt Family Department of Biomedical Engineering, University of Florida

**Friday, November 22, 2019, 2:00pm – 3:00pm, CRB Austrian Auditorium**

*Title: Elucidating the Role of Lymphatic Dysfunction in Arthritic Flare*

Edward Schwarz, Ph.D., Burton Professor of Orthopaedics, Director of the Center for Musculoskeletal Research University of Rochester

**Wednesday, November 13, 2019, 8:00am – 6:00pm, Smilow Rubinstein Auditorium/Commons**

ANNUAL SCIENTIFIC SYMPOSIUM (all day event)

Keynote Speaker - Anthony Ratcliffe, Ph.D., President and CEO of Synthasome, Inc.

**Tuesday, October 15, 2019, 1:30pm – 2:30pm CRB Austrian Auditorium**

*Title: Osteocytes and Connexin Channels in Mechanotransduction and Hormonal Response in Bone*

Jean Jiang, Ph.D., Professor and Zachry Distinguished University Chair, Department of Biochemistry and Structural Biology, UT Health San Antonio

**Tuesday, September 17, 2019, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Towards a better understanding of Musculoskeletal development and arthritis pathogenesis: A Systems approach*

Hiroshi Asahara, M.D., Ph.D., Professor of MEM, Department of Molecular Medicine, Scripps Research, California Campus

**Visiting Professorship Series-Academic Year 2018-2019**

**Tuesday, June 4, 2019, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Advanced Imaging for Characterizing Hip Joint Osteoarthritis*

Richard Souza, PT, PhD, Professor, Vice Chair for Research, Program Director, PhD in Rehabilitation Science Department of Physical Therapy and Rehabilitation Science, Department of Radiology and Biomedical Imaging University of California, San Francisco

**Tuesday, April 30, 2019, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Skeletal Stem Cells*

Michael Longaker, MD, MBA, FACS, Deane P. & Louise Mitchell Professor, Vice Chair, Department of Surgery Co-Director, Institute for Stem Cell Biology & Regenerative Medicine, Director, Program in Regenerative Medicine Director, Children's Surgical Research, Stanford University School of Medicine, Hagey Laboratory for Pediatric Regenerative Medicine

**Tuesday, March, 2019, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Biomaterials based strategies for repair of rotator cuff tendon and muscle*

**Johnna Temenoff**, PhD, Professor, Wallace H. Coulter Department of Biomedical Engineering, Georgia Institute of Technology and Emory University

**Tuesday, February, 12, 2019, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Circadian clock regulation of collagen homeostasis*

Karl Kadler, BSc, PhD, Professor of Biochemistry, Director, Wellcome Trust Centre for Cell-Matrix Research Director, Cellular & Developmental Systems Domain, Faculty of Biology, Medicine and Health, University of Manchester, UK

**Friday, January 18, 2019, 12:00pm – 1:00pm, CRB Austrian Auditorium**

*Title: Understanding muscle stem cell regenerative decline with aging*

Pura Munoz-Canoves, PhD, Professor Universitat Pompeu Fabra (UPA) and ICREA, Barcelona, Spain

**Tuesday, December 11, 2018, 3:00pm – 4:00pm, JMB Class of 62 Auditorium**

*Title: A novel Hyaluronan-binding Peptide improves Cartilage Repair”*

Thorsten Kirsch, Ph.D., Professor, Vice Chair for Research, Director, Musculoskeletal Research Center  
Department of Orthopaedic Surgery, NYU Langone Medical Center

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 7, 2018, 8:00am – 6:00pm, Smilow Rubinstein Auditorium/Commons**

*Title: Skeletal Dysplasia’s: Informing Skeletal Function & Homeostasis”*

Brendan Lee, M.D., Ph.D., Robert and Janice McNair Endowed Chair in Molecular and Human Genetics  
Professor and Chairman, Department of Molecular and Human Genetics, Baylor College of Medicine

**Tuesday, October 23, 2018, 3:00pm – 4:00pm, John Morgan Building (JMB) Class of 62 Auditorium**

*Title: Comparative and MRI Studies of Developmental Orthopedic Disease*

Cathy Carlson, DVM, PhD, DACVP, Professor and Chair, Veterinary Clinical Sciences Department, College of  
Veterinary Medicine, University of Minnesota ORS Pennsylvania & Northeast Regional Meet & Greet

**Tuesday, September 25, 2018, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Musculoskeletal Microbiology*

Christopher Hernandez, Ph.D., Associate Professor, Sibley School of Mechanical and Aerospace Engineering Meinig  
School of Biomedical Engineering, Cornell University

**Visiting Professorship Series-Academic Year 2017-2018**

**Tuesday, May 8, 2018, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Regulation of stem cell fate through niche-derived signals and mechanical forces.*

Sara Wickström, M.D., Ph.D., Associate Professor, Principle Investigator, University of Helsinki, Finland

**Tuesday, April 24, 2018, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Orthopedic Applications of Gene Therapy.*

Chris Evans, Ph.D., Director, Musculoskeletal Gene Therapy Research Laboratory, Mayo Clinic, Rochester

**Tuesday, March 27, 2018, 1:30pm – 2:30pm, CRB Austrian Auditorium**

*Title: Modular inductive high-density cell culture systems for engineering complex tissues.*

Eben Alsberg, Ph.D. Professor of Biomedical Engineering and Orthopaedic Surgery, Director of ASCENT Lab  
Case Western Reserve University

**Tuesday, February 13, 2018 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Notch Signaling and the Skeleton*

Ernesto Canalis, M.D., Professor of Orthopaedic Surgery and Medicine, Director of Center for Skeletal Research  
University of Connecticut

**Tuesday, January 16, 2018 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Parathyroid Hormone and Related Peptides Signaling to the Nucleus of Osteoblasts.*

Nicola C. Partridge, Ph.D., Professor & Chair, Departments of Medicine, Biochemistry & Molecular Pharmacology, &  
Basic Science & Craniofacial Biology, College of Dentistry, New York University School of Medicine

**Tuesday, December 5, 2017 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Osteocytes and Bone Remodeling: They’re Just Dying to do the Job.*

Mitchell B. Schaffler, Ph.D., CUNY & Wallace Coulter Distinguished Professor of Biomedical Engineering  
Chairman, Department of Biomedical Engineering, The City College of New York, City University of New York

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 15, 2017, 8:00-6:30pm/BRB Auditorium**

*Title: Toward Bioengineering Translation*

Kyriacos Athanasiou, Ph.D., Distinguished Professor, Department of Biomedical Engineering, University of California,  
Irvine

**Tuesday, October 24, 2017, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: How Can We Improve Translation of Pre-Clinical Osteoarthritis Research To Patients?*

Christopher Little, B.V.M.S., Ph.D., Director, Raymond Purves Bone & Joint, Research Laboratories, Kolling Institute, Institute of Bone & Joint Research, University of Sydney

**Tuesday, September 12, 2017, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Cartilage Repair and Osteoarthritis in Genetic Mouse Models*

Linda Sandell, Ph.D., Mildred B. Simon Research Professor & Director of Research, Washington University

**Visiting Professorship Series-Academic Year 2016-2017**

~~**Tuesday, June 2017 1:30-2:30pm/CRB Austrian Auditorium**~~ **Cancelled scheduled December 2017**

*Title: Osteocytes and Bone Remodeling: They're Just Dying to Do the Job.*

Mitchell B. Schaffler, Ph.D., CUNY and Wallace Coulter Distinguished Professor of Biomedical Engineering Chairman, Department of Biomedical Engineering, The City College of New York, City University of New York

**Tuesday, May 2017, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: NF-Kb Signaling In Muscle Growth and Disease*

Denis C. Guttridge, Ph.D., Professor, Department of Cancer Cachexia & Genetics and Director, Research & Management for Cancer Cachexia, Ohio State University

**Tuesday, April 4, 2017, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: MSC's and Immunomodulation: Are We Moving Closer to Allogeneic Use?*

Laurie Goodrich, D.V.M., Ph.D, Associate Professor of Orthopaedics, Department of Clinical Sciences Colorado State University

~~**Tuesday, March 14, 2017, 1:30-2:30pm/CRB Austrian Auditorium**~~ **Cancelled scheduled September 2017**

*Title: Cartilage Repair and Osteoarthritis in Genetic Mouse Models*

Linda Sandell, Ph.D., Mildred B. Simon Research Professor & Director of Research, Washington University

**Tuesday, February 7, 2017, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Cell-Independent Manipulation of Bone Matrix Properties: A Novel Treatment Strategy for Osteoporosis & Type 2 Diabetes.*

David Burr, Ph.D, Professor of Anatomy & Cell Biology, Professor, Department of Biomedical Engineering Indiana University

**Tuesday, January 10, 2017, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Studying Bone As A Complex Adaptive System Reveals Inter-Individual Differences In Skeletal Growth and Aging.*

Karl Jepsen, Ph.D., Professor, Associate Chair of Research, Department of Orthopaedic Surgery, University of Michigan

~~**Tuesday, December 13, 2016, 1:30-2:30pm/JMB Class of '62 Auditorium**~~ **Cancelled scheduled June 2017**

Mitchell B. Schaffler, Ph.D., CUNY and Wallace Coulter Distinguished Professor of Biomedical Engineering Chairman, Department of Biomedical Engineering, The City College of New York, City University of New York

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 9, 2016, 9:00-5:30pm/BRB Auditorium**

*Title: Strategies for Improving Bone Properties in Patients with Osteogenesis Imperfecta*

Matthew Warman, M.D., Professor, Department of Genetics, Harvard Medical School

**Tuesday, October 25, 2016, 1:30-2:30pm/JMB Class of '62 Auditorium**

*Title: Musculoskeletal Adaptation To Space Flight.*

Henry J. Donahue, Ph.D., Professor & Chair, Department of Biomedical Engineering, Virginia Commonwealth University, Richmond

**Tuesday, September 20, 2016, 1:30-2:30pm/JMB Class of '62 Auditorium**

*Title: Mechanisms of Chondroprotection By TGF- $\beta$ .*

Rosa A. Serra, Ph.D., Professor, Department of Cell, Developmental & Integrative Biology, University of Alabama at Birmingham

**Visiting Professorship Series-Academic Year 2015-2016**

**Tuesday, May 17, 2016, 1:30-2:30/CRB Austrian Auditorium**

*Title: Microenvironmental Regulation of Skeletal Muscle Stem Cell Function*

Alessandra Sacco, Ph.D. Associate Professor, Development, Aging & Regeneration Program (Dare), Sanford Burnham Medical Research Institute

**Tuesday, April 19, 2016, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Genome and Epigenome Editing for Gene Therapy and Programming Cell Fate*

Charles Gersbach, Ph.D., Associate Professor of Biomedical Engineering and Assistant Professor of Orthopaedic Surgery, Duke University

**Tuesday, March 22, 2016, 1:30-2:30pm/ Class of 62 Auditorium, JMB**

*Title: Scar Wars: New Frontiers in Flexor Tendon Repair*

Hani Awad, Ph.D., Professor of Biomedical Engineering and Professor of Orthopaedics, University of Rochester

**Tuesday, February 16, 2016, 1:30-2:30pm/ CRB Austrian Auditorium**

*Title: Unravelling The Neurobiology of Osteoarthritis Pain*

Anna-Marie Malfait, M.D., Ph.D., Associate Professor of Medicine & Biochemistry, Rush University Medical Center

**Tuesday, January 19, 2016, 1:30-2:30pm/ CRB Austrian Auditorium**

*Title: Role of Connexin43 In Cortical Bone Adaptation To Mechanical Load*

Roberto Civitelli, M.D., Ph.D., Associate Professor of Chemical & Biological Engineering, Biofrontiers Institute

**Tuesday, December 15, 2015, 1:30-2:30pm/CRB Auditorium**

*Title: TGF-Beta Integration of Physical and Biochemical Cues In the Skeleton*

Tamara Alliston, Ph.D., Associate Professor, Department of Orthopaedic Surgery, University of California, San Francisco

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Thursday, November 19, 2015, 9:30-5:30pm/BRB Auditorium**

*Title: Treatment of Musculoskeletal Diseases with a Little Help from your Own Stem Cells*

Nancy Lane, M.D., Director, Center for Musculoskeletal Health, UC Davis Health System

**Tuesday, October 20, 2015, 1:30-2:30pm/8-146 SCTR**

*Title: A Runted Tale of Skeletal Homeostasis and Repair*

M. Hicham Drissi, Ph.D., Professor of Orthopaedic Surgery, UConn Health

**Tuesday, September 8, 2015, 1:30-2:30pm/8-146 SCTR**

*Title: Evolving Roles of Prolyl Hydroxylases In Intervertebral Disc Health and Disease*

Markarand V. Risbud, Ph.D., Professor of Orthopaedic Surgery; Director, Spine Research Program Sidney Kimmel Medical College, Thomas Jefferson University

**Visiting Professorship Series-Academic Year 2014-2015**

**Thursday, July 23, 2015, 1:30-2:30pm/8-146AB SCTR**

*Title: The Osteoimmunology of Bone Infection and Development of a Passive Immunization for MRSA Osteomyelitis*

Edward Schwarz, Ph.D., Professor of Orthopaedics & Associate Director of the Center for Musculoskeletal Research University of Rochester, Rochester, NY

**Tuesday, June 23, 2015, 1:30-2:30pm/BRB 252 PCM.D.-PCI Industrial Interaction Seminars**

*Title: Working With The Penn Center for Innovation To Protect and Commercialize Your Research.*

Viviane Martin, Ph.D., Director, PSOM Licensing Group, Penn Center for Innovation

Sarah Frew, MBA, Director, Corporate Contracts & Alliances, Penn Center for Innovation

**Friday, May 22, 2015, 11:00am-12:00pm/BRB 252**

*Title: Effects of Space Travel On Spine Function and Injury Tolerance*

Jeffrey Lotz, Ph.D., Professor of Orthopaedic Surgery, Director of The Orthopaedic Bioengineering Laboratory University of California, San Francisco

**Tuesday, May 12, 2015, 1:30-2:30pm/10-146 SCTR**

*Title: Cell and Extracellular Matrix Dynamics In Skeletal Tissues*

Sarah L. Dallas, Ph.D., Professor of Oral & Craniofacial Sciences, University of Missouri, Kansas City

**Tuesday, April 21, 2015, 1:30-2:30pm/10-146 SCTR**

*Title: Orthopedic Tissue Engineering by Epigenetic Landscaping*

Andre J. Van Wijnen, Ph.D., Professor of Orthopedic Surgery & Biochemistry & Molecular Biology, Mayo Clinic

**Tuesday, March 10, 2015, 1:30-2:30pm/11-146 SCTR**

*Title: "Bone Health in Microgravity — Use It or Lose It"*

Mary L. Bouxsein, Ph.D., Associate Professor of Orthopedic Surgery, Harvard Medical School

**Tuesday, February 10, 2015, 1:30-2:30pm/10-146 SCTR**

*Title: Pluripotent Stem Cell Repair of Osteochondral Defects*

Darryl D'Lima, M.D., Ph.D., Associate Professor, Scripps Translational Science Institute

**Tuesday, January 20, 2015, 1:30-2:30pm/10-146 SCTR**

*Title: Synthetic Hydrogel Niches for Musculoskeletal Tissue Engineering*

Stephanie J. Bryant, Ph.D., Associate Professor of Chemical & Biological Engineering, Biofrontiers Institute

**Tuesday, December 09, 2014, 1:30-2:30pm/10-146 SCTR**

*Title: Small Leucine Rich Proteoglycans: Fine Tune Regulators of Skeletal Function*

Marian F. Young, Ph.D., Chief of The Molecular Biology of Bones & Teeth Section, National Institutes of Health/NIDCR

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 14, 2014, 10:45-5:30pm/BRB Auditorium**

*Title: How Pthrp Regulates Chondrocyte Differentiation*

Henry M. Kortenber, M.D., Professor of Medicine, Harvard Medical School

**Tuesday, October 28, 2014, 1:30-2:30pm/10-146 SCTR**

*Title: The Strategic Role of Parathyroid Hormone in Resolution of Osseous Healing and Regeneration of Bone*

Laurie K. McCauley, DDS, Ph.D., William K. & Mary Anne Najjar Professor, University of Michigan

**Tuesday, September 16, 2014, 1:30-2:30pm/11-146 SCTR**

*Title: Development of a Gene-Based Therapy for Osteoarthritis: Safety and Efficacy in an Equine Model*

Steven C. Ghivizzani, Ph.D., Professor of Orthopaedics & Rehabilitation, University of Florida

**Visiting Professorship Series-Academic Year 2013-2014**

**Tuesday, May 13, 2014, 1:30-2:30/CRB Austrian Auditorium**

*Title: A Translational Approach To Development of Novel Treatments for Osteoarthritis-Associated Pain and Joint Tissue Structural Failure*

Gloria Matthews, DVM, Ph.D., DACVS, Senior Director of Orthopaedic/Regenerative Medicine Research & Early Development, Genzyme, A Sanofi Company

**Tuesday, April 22, 2014, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Dissecting The Mechanisms of Anabolic Signaling In Bone*

Fanxin Long, Ph.D., Professor of Internal Medicine Endocrinology, Metabolism & Lipid Research, Washington University, St Louis

**Tuesday, March 25, 2014, 1:30-2:30/CRB Austrian Auditorium**

*Title: Structure and Symptom Modifying Therapies for Painful Disc Degeneration*

James C. Iatridis, Ph.D., Professor & Director of Spine Research, Mount Sinai School of Medicine

**Tuesday, February 18, 2014, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Solid State MR Spectroscopy and Imaging of Bone Mineral and Matrix*

Jerome L. Ackerman, Ph.D., Associate Professor in Radiology, Harvard Medical School

**Tuesday, January 21, 2014, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Osseointegration Past Present and Future*

Mathias Bostrom, M.D., Professor of Orthopaedic Surgery, Hospital for Special Surgery

**Tuesday, December 10, 2013, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Epigenetic Regulation of Stem Cell Phenotypic Plasticity and Hedgehog Signaling During Early Cartilage Development*

Andrew Lasser, Ph.D., Professor of Biological Chemistry & Molecular Pharmacology, Harvard Medical School

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 13, 2013, 10:45am-5:30pm/BRB Auditorium**

*Title: Managing Science and Innovating in Challenging Times*

Joan A. McGowan, Ph.D., Director, Division of Musculoskeletal Diseases, National Institutes of Health, National Institute of Arthritis & Musculoskeletal & Skin Diseases (NIAMS)

**Tuesday, October 22, 2013, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: The Biomolecular Science and Engineering of Bone's Extracellular Matrix*

Deepak Vashishth, Ph.D., Professor & Department Head of Biomedical Engineering, Rensselaer Polytechnic Institute

**Tuesday, September 17, 2013, 1:30-2:30pm/CRB Austrian Auditorium**

*Title: Engineering Human Osteochondral Grafts*

Gordana Vunjak-Novakovic, Ph.D., Mikati Foundation Professor of Biomedical Engineering; Professor of Medical Sciences (In Medicine), Columbia University

**Visiting Professorship Series-Academic Year 2012-2013**

**Tuesday, May 07, 2013, 1:00-2:00pm/ Austrian Auditorium CRB**

*Title: Mechanical and Biological Regulation of Tissue Regeneration*

Robert E. Guldberg, Ph.D., Professor, Woodruff School of Mechanical Engineering, Georgia Institute of Technology

**Tuesday, April 09, 2013, 1:30-2:30pm/Austrian Auditorium CRB**

*Title: Tendon Stem Cells, Tendinopathy, and Tendon Repair*

James H-C. Wang, Ph.D., Professor & Director Mechanobiology Laboratory, University of Pittsburgh

**Tuesday, March 12, 2013, 1:30-2:30pm/Austrian Auditorium CRB**

*Title: Aging, Redox Signaling, and the Development of Osteoarthritis*

Richard F. Loeser Jr, M.D., Professor of Internal Medicine- Rheumatology & Immunology, Wake forest University

**Tuesday, February 12, 2013, 1:30-2:30pm/Austrian Auditorium CRB**

*Title: Coupling Bone Resorption and formation*

Xu Cao, Ph.D., Lee Riley Professor & Co-Director Center for Musculoskeletal Research, Johns Hopkins University

**Tuesday, January 15, 2013, 1:30-2:30pm/Austrian Auditorium CRB**

*Title: Sensorimotor and Serum Biomarkers Indicative of Underlying Pathologies in a Rat Model of Upper Extremity Overuse*

Mary Barbe, Ph.D., Professor of Anatomy & Cell Biology, Temple University

**Tuesday, December 18, 2012, 1:00-2:00pm/252 BRB**

*Title: A Novel Biomarker of Early Post-Traumatic Osteoarthritis using the Horse as an Animal Model*

Lisa A. Fortier, D.V.M., Ph.D, DACVS, Associate Professor of Surgery, Cornell University

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 14, 2012, 10:45am-5:30pm/BRB Auditorium**

*Title: Osteoarthritis: From Palliation to Prevention*

Constance R. Chu, M.D., Albert Ferguson Professor of Orthopaedic Surgery, University of Pittsburgh

**Tuesday, October 23, 2012, 1:00-2:00pm/Austrian Auditorium CRB**

*Title: Orthopedic Biomaterials that Mimic and Harness Biological Signals*

William L. Murphy, Ph.D., Associate Professor, University of Wisconsin-Madison

**Tuesday, September 11, 2012, 1:30-2:30pm/251 BRB**

*Title: Joint Injury and Osteoarthritis*

Joseph A. Buckwalter, M.S., M.D., Professor, Head & Arthur Steindler Chair, University of Iowa

**Visiting Professorship Series-Academic Year 2011-2012**

**Tuesday, May 29, 2012, 1:00-2:00pm/251 BRB**

*Marfan Syndrome: Molecular Pathology and Therapeutic Opportunities*

Francesco Ramirez, D.Sc. Professor of Pharmacology & Systems Therapeutics, Professor of Medicine-Cardiology, Mount Sinai Medical Center

**Tuesday, April 24, 2012, 1:00-2:00pm/251 BRB**

*Title: The Role of The Osteocyte In Muscle-Bone Crosstalk*

Lynda F. Bonewald, Ph.D., Interim Vice Chancellor for Research & Curators Professor, University of Missouri At Kansas City

**Tuesday, April 10, 2012, 2:00-3:00pm/251 BRB**

*Title: Musculoskeletal Medicine In The Comparative Effectiveness Era*

Edward Schwarz, Ph.D., Director, Center for Musculoskeletal Research

Richard Margaret Burton Distinguished Professor In Orthopaedics, University of Rochester Medical Center

**Tuesday, March 27, 2012, 1:00-2:00pm/251 BRB**

*Title: Magnetic Resonance Imaging of Short T2 Tissues*

Graeme Bydder, M.B., Ch.B., Professor of Radiology, University of California, San Diego

**Tuesday, February 28, 2012, 1:00-2:00pm/251 BRB**

*Title: The Carpus: The Beauty and The Beast of The Upper Extremity*

J.J. Trey Crisco, Ph.D., Henry Frederick Lippitt Professor of Orthopaedic Research, Director Bioengineering Laboratory, Department of Orthopaedics, The Warren Alpert Medical School of Brown University & Rhode Island Hospital

**Tuesday, January 24, 2012, 1:00-2:00pm/251 BRB**

*Title: Chondrocyte Beta-Catenin Signaling Regulates Osteoclastogenesis*

Di Chen, M.D., Ph.D., Professor of Biochemistry, John W. & Helen Watzek Endowed Chair, Rush University Medical Center

**Monday, January 9, 2012, 12:00-1:00pm/251 BRB**

*Title: Statistically Significant Collaborations: How Biostatistics Can Contribute To Multidisciplinary Research*

Kathleen Propert, Ph.D., Professor of Biostatistics, Department of Biostatistics & Epidemiology, University of Pennsylvania, Perelman School of Medicine

**Tuesday, December 13, 2011, 1:00-2:00pm/251 BRB**

*Title: Stem Cell Mobilization and Wnt Signaling – Two Approaches To Enhancing Bone Regeneration*

D. Rick Sumner, Ph.D., Professor for Medical Research & Chair, Department of Anatomy & Cell Biology, Rush Medical College

**Tuesday, November 15, 2011, 1:00-2:00pm/10-146 TRC**

*Title: Maintaining and Enhancing Bone Morphology Via Exercise*

Ted Gross, Ph.D., Professor of Orthopaedics & Sports Medicine & Director, Orthopaedic Science Laboratories University of Washington

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, October 26, 2011, 8:00am-2:45pm/BRB Auditorium**

*Title: Mechanisms of Pathological Bone Remodeling: Pathology Teaches Physiology*

Steven R. Goldring, M.D., St. Giles Chair & Chief Scientific officer, Hospital for Special Surgery & Professor of Medicine, Weill Cornell Medical College

**Visiting Professorship Series-Academic Year 2010-2011**



**Tuesday, April 5, 2011, 1:00-2:00pm/ BRB 252**

*Title: Acoustoelasticity Analysis of Ultrasound Signals for Biomechanical Behavior*

Ray Vanderby, Jr., Ph.D., Professor of Orthopaedic Surgery & Biomedical Engineering, University of Wisconsin, Madison

**Tuesday, March 1, 2011, 1:00-2:00 Pm/ BRB 252**

*Title: Blood Supply and Fracture Repair: Bedside to Bench*

Theodore Miclau, III, M.D., Professor & Vice Chair, Trauma/Problem Fracture, Department of Orthopaedic Surgery  
University of California, San Francisco

**Tuesday, February 1, 2011, 1:00-2:00pm/ BRB 253**

*Title: Osteoarthritis: Translating New Insight Into Pathogenesis To Prevention and Treatment*

Martin Lotz, M.D., Professor & Head, Division of Arthritis Research, The Scripps Research Institute, La Jolla, California

**Tuesday, January 18, 2011, 1:00-2:00pm/ BRB 253**

*Title: Between a Muscle and a Hard Bone: The Regulation of Tendon Induction and Differentiation*

Ronen Schweitzer, Ph.D., Associate Professor, Shriners Hospital-Research, Dept. of Cell & Developmental Biology,  
Oregon Health & Science University

**Tuesday, December 14, 2010, 1:00-2:00pm/ BRB 251**

*Title: Oxygen Sensing In Cartilage and Bone Development*

Ernestina Schipani, M.D., Ph.D., Associate Professor of Medicine, Division of Endocrinology, Massachusetts General  
Hospital-Harvard Medical School

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 17, 2010, 8:00am-3:00pm/BRB Auditorium**

*Title: Musculoskeletal Regenerative Medicine*

Michael Yaszemski, M.D., Ph.D., Professor of Orthopaedics & Bioengineering, & The Director of The Tissue  
Engineering & Biomaterials Laboratory, Mayo Clinic, Minnesota

**Tuesday, October 5, 2010, 1:00-2:00pm/ BRB 251**

*Title: Measurement of The Local Mechanical Environment of Skeletal Tissues*

Elise F. Morgan, Ph.D., Associate Professor, Mechanical Engineering, Biomedical Engineering, Orthopaedic Surgery,  
Boston University

**Tuesday, September 14, 2010, 1:00-2:00pm/BRB 253**

*Title: Histone Deacetylases Play Crucial Roles In Bone Development and Skeletal Health*

Jennifer Westendorf, Ph.D., Associate Professor of Biochem/Molecular Biology & Orthopedics, Mayo Clinic, Minnesota

**Visiting Professorship Series-Academic Year 2009-2010**

**Tuesday, May 18, 2010, 1:00-2:00pm/ BRB 251**

*Title: The Role of Mechanical Loading in Tendon-To-Bone Healing: Our Experience with Small Animal Models*

Scott A. Rodeo, M.D., Professor of Orthopaedic Surgery, Weill Cornell Medical College, New York, NY  
Attending Orthopaedic Surgeon, New York-Presbyterian Hospital, Attending Orthopaedic Surgeon, Hospital for Special  
Surgery, New York, NY

**Tuesday, April 13, 2010, 1:00-2:00pm/BRB 251**

*Title: Biomechanics of Reactive Mixtures: Modeling Growth and Active Transport*

Gerard A. Ateshian, Ph.D., Professor of Mechanical Engineering & Biomedical Engineering, Columbia University, New  
York, NY

**Tuesday, March 16, 2010, 1:00-2:00 Pm/BRB 251**

*Title: The Biomechanics of Osteoarthritis: Progress vs. Progression?*

Joel A. Block, M.D., The Willard L. Wood M.D. Professor of Rheumatology and Director, Section of Rheumatology,  
Rush Medical College, Rush University Medical Center, Chicago, IL

**Tuesday, February 16, 2010, 1:15-2:15pm/BRB 251**

*Title: Exploiting the Physical Environment To Optimize Stem Cells for Skeletal Regeneration*

Henry J. Donahue, Ph.D., Baker Professor & Vice Chair for Research and Director, Division of Musculoskeletal Sciences; Director, Department of Orthopaedics & Rehabilitation, Pennsylvania State University College of Medicine

**Tuesday, January 19, 2010, 1:00-2:00pm/BRB 1412**

*Biologic Enhancement of ACL Repair and Reconstruction*

Martha M. Murray, M.D., Assistant Professor & Clinical Associate Orthopaedic Surgeon, Children's Hospital & Harvard Medical School, Boston, MA

**Tuesday, December 15, 2009, 1:00-2:00pm/BRB 251**

*Title: Integration of Signaling Pathways In The Growth Plate*

Karen M. Lyons, Ph.D. Professor of Orthopaedic Surgery, Department of Biological Chemistry, University of California, Los Angeles

**Tuesday, November 17, 2009, 1:00-2:00pm/JMB Class of '62**

*Title: Using Mechanical Loading To Enhance Bone Mass*

Marjolein CH Van Der Meulen, Ph.D., Professor, Sibley School of Mechanical & Aerospace Engineering, Cornell University, Senior Scientist, Laboratory for Biomedical Mechanics & Materials, Hospital for Special Surgery, New York

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, October 14, 2009, 8:00am-2:45pm/BRB Auditorium**

*Title: Molecular and Cellular Control of Skeletal Morphogenesis*

Bjorn R. Olsen, M.D., Ph.D., Hersey Professor of Cell Biology, Harvard Medical School  
Professor & Chair of Oral & Developmental Biology, Dean for Research, Harvard School of Dental Medicine

**Tuesday, September 22, 2009, 2:00-2:30pm/JMB Class of '62**

*Title: Technology Transfer at Penn*

Robert H. Schenkel, Ph.D., Director Life Sciences Licensing, Center for Technology Transfer, University of Pennsylvania

**Tuesday, September 22, 2009, 1:00-2:00pm/JMB Class of '62**

*Title: Making Cartilage: Architecture, Scaffolding and Builders*

Brian Johnstone, Ph.D.  
Director of Research, Department of Orthopaedics & Rehabilitation, Oregon Health & Science University

**Visiting Professorship Series-Academic Year 2008-2009**

~~**Tuesday, May 5, 2009, 1:00-2:00pm**~~ **Cancelled**

*Title: Effect of Mechanical forces On Soft Tissue Healing*

Jo A. Hannafin, M.D., Ph.D.  
Attending Orthopaedic Surgeon & Director of Orthopaedic Research, Hospital for Special Surgery, New York

**Tuesday, April 21, 2009, 1:00-2:00pm/BRB 251**

*Mechanotransduction Mechanisms In Connective Tissue Cells*

Albert J. Banes Ph.D., Professor of Biomedical Engineering  
President of Flexcell International Corp, North Carolina State University & University of North Carolina Chapel Hill

**Tuesday, March 3, 2009, 1:00-2:00 Pm/BRB 251**

*Title: Gene: Environment Interaction In Osteoarthritis*

Joanne Jordan, M.D., MPH, Director, Thurston Arthritis Research Center  
Chief, Division of Rheumatology, Allergy, & Immunology, University of North Carolina

**Thursday, February 26, 2009, 1:00-2:00pm/BRB 252**

*Title: The Influence of Interleukin-1 and Mechanical Loading on the Release of Nitric Oxide and Prostaglandin E<sub>2</sub> By Articular Chondrocytes*

David Lee, Ph.D., Professor of Cell & Tissue Engineering, Queen Mary University of London

**Tuesday, February 3, 2009, 1:00-2:00pm/BRB 251**

*Title: Bmps Mediate Bone Homeostasis*

Vicki Rosen, Ph.D., Professor & Chair of Developmental Biology, Harvard School of Dental Medicine

~~Tuesday, January 13, 2009, 1:00-2:00pm/BRB 251 Rescheduled May 5~~

*Effect of Mechanical forces On Soft Tissue Healing*

Jo A. Hannafin, M.D., Ph.D., Attending Orthopaedic Surgeon & Director of Orthopaedic Research, Hospital for Special Surgery, New York

**Tuesday, December 9, 2008, 1:00-2:00pm/BRB 253**

*Title: Quantitative Assessment of Bone By Radiologic Methods*

Thomas N. Hangartner, Ph.D., FAAPM, Distinguished Professor of Biomedical Engineering, Medicine & Physics  
Director, Biomedical Imaging Laboratory, Wright State University

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 12, 2008, 8:00am-3:30pm/BRB Auditorium**

*Title: Osteoarthritis and Fat: The Good, The Bad, and The Ugly*

Farshid Guilak, Ph.D., Ormandy Professor & Director of Orthopaedic Research, Duke University

~~Tuesday, October 7, 2008, 1:00-2:00pm/CRB Austrian Auditorium Rescheduled April 21st~~

Albert J. Banes Ph.D.

Professor of Biomedical Engineering

President of Flexcell International Corp

North Carolina State University & University of North Carolina Chapel Hill

*Title: Matrix Elasticity Directs Stem Cell Lineage Specification*

Dennis E. Discher, Ph.D., Professor of Chemical & Biomolecular, Mechanical, & Bio- Engineering, University of Pennsylvania

**Tuesday, September 9, 2008, 1:00-2:00pm/BRB 253**

*Title: Multiscale Approaches To Cartilage Tissue Engineering*

Lawrence J. Bonassar, Ph.D., Associate Professor, Department of Biomedical Engineering, Cornell University

**Visiting Professorship Series-Academic Year 2007-2008**

**Thursday, June 5, 2008, 3:30-4:30 Pm/BRB 252**

*Title: Animal Models of Mucopolysaccharidoses*

Mark Haskins VM.D., Ph.D., Professor, Pathology & Medical Genetics, School of Veterinary Medicine, University of Pennsylvania

**Tuesday, May 6, 2008, 3:30-4:30pm/BRB 252**

*Molecular and Cellular Mechanisms of Synovial Joint formation During Mouse Skeletogenesis*

Maurizio Pacifici, Ph.D., Professor of Orthopaedic Surgery, Thomas Jefferson University College of Medicine

**Tuesday, April 8, 2008, 3:30-4:30pm/BRB 251**

*Title: Effects of Decorin and Biglycan On Neocartilage and Cartilage Material Properties*

Jack Lewis, Ph.D., Professor of Orthopaedic Surgery & Mechanical Engineering, University of Minnesota

**Tuesday, March 11, 2008, 3:30-4:30 Pm/BRB 251**

*Title: Ischemia/Reperfusion Injury and Apoptosis of The Muscle and Skin In An Animal Model*

Richard Salcido, M.D., Erdman Professor & Chair of Physical Medicine & Rehabilitation

Director of Rehabilitation Services, University of Pennsylvania

**Tuesday, February 5, 2008, 3:30-4:30pm/BRB 251**

*Title: Morphological and Biological Characteristics of Articular Cartilage In Osteoarthritis*

Sharmila MajuM.D.ar, Ph.D., Director of Musculoskeletal & Quantitative Imaging Research Group

Professor of Radiology & Orthopaedic Surgery, UCSF & of Bioengineering UC Berkeley

**Tuesday, January 8, 2008, 3:30-4:30pm/BRB 251**

*Title: New Insights Into The Pathogenesis of Achondroplasia*

William Horton, Ph.D., Senior Investigator & Director of Research, Portland Shriners Research Center

**Tuesday, December 4, 2007, 3:30-4:30pm/BRB 251**

*Title: The Skeletal Consequences of Disease: Diabetes To Cancer*

Larry Suva, Ph.D., Director, Center for Orthopaedic Research  
Professor, Departments of Orthopaedic Surgery & Physiology & Biophysics, University of Arkansas for Medical Sciences

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 7, 2007, Time 8:45 Am-3:45 Pm/BRB Auditorium**

***Title: Is The Intervertebral Disc A Source of Pain?***

Gunnar Andersson, M.D., Ph.D., Professor & Chair of Orthopaedic Surgery, Rush-Presbyterian Medical Center

**Tuesday, October 9, 2007, 3:30-4:30pm/BRB 251**

*Title: Molecular Mechanisms of Bone Metastasis*

Katherine Weilbaecher, M.D., Assistant Professor of Molecular Oncology, Washington University

**Tuesday, September 18, 2007, 3:30-4:30pm/JMB Reunion 40**

*Title: Understanding Growth Plate Dynamics By In Vivo Imaging Using Multiphoton Microscopy*

Cornelia Farnum, D.V.M., Ph.D., Professor of Zoology

Cornell University

**Visiting Professorship Series - Academic Year 2006-2007**

**Tuesday, May 22, 2007, 3:30-4:30pm/BRB 252**

*Title: Mechanical forces and Articular Cartilage formation: What We Have Learned From Tissue Engineering*

Rita Kandel, M.D., Professor, Dept. of Laboratory Medicine & Pathobiology, University of Toronto

~~**Tuesday, April 17, 2007, 3:30-4:30pm/BRB 252**~~, **Postponed Until September 18, 2007 Due To Weather**

*Title: Understanding Growth Plate Dynamics By In Vivo Imaging Using Multiphoton Microscopy*

Cornelia Farnum, D.V.M., Ph.D., Professor of Zoology, Cornell University

**Tuesday, March 20, 2007, 3:30-4:30pm/BRB 252**

*Title: The Use of Transgenic Mouse Models To Study The Hormonal Regulation of Bone Remodeling*

Barbara Kream, Ph.D., Professor of Medicine & Genetics & Developmental Biology; Director, Medical Scientist Training Program, University of Connecticut Health Center

**Tuesday, March 19, 2007, 11:00am-12:00pm/BRB 251**

*Title: Gene Therapy Based On Muscle Stem Cells: Potential for Tissue Regeneration and Repair*

Johnny Huard, Ph.D., Professor of Molecular Genetics & Biochemistry & Bioengineering, University of Pittsburgh

**Tuesday, February 27, 2007, 3:30-4:30pm/BRB 252**

*Mechanical Signals As A Non-Pharmacologic Intervention for Osteoporosis*

Clinton Rubin, Ph.D., Distinguished Professor & Chair - Department of Biomedical Engineering

State University of New York Stony Brook

**Tuesday, January 16, 2007, 3:30-4:30pm/BRB 252**

*Title: Oxygen-Dependent Regulation of Bone Growth: Epiphyseal Chondrocyte Proliferation, Autophagy and Apoptosis*

Irving Shapiro, Ph.D., Professor & Director of Orthopaedic Research, Thomas Jefferson University

**Tuesday, December 19, 2006, 4:00-5:00pm/BRB 251**

*Title: Using Genes to Repair Bone and Cartilage*

Chris Evans, Ph.D., The Robert Lovett Professor of Orthopaedic Surgery, Center for Molecular Orthopaedics, Harvard Medical School

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Wednesday, November 29, 2006, 8:00 Am-3:30 Pm/BRB Auditorium**

*Title: Humans: From Medical Images To Simulated Surgery*

Scott Delp, Ph.D., Professor, Departments of Bioengineering, Mechanical Engineering, & Orthopaedic Surgery, Stanford University

**Wednesday, October 4, 2006, 1:00-2:00pm/BRB 251**

*Title: Tendon Ageing and Regeneration – Lessons from the Racehorse*

Roger K.W. Smith, MA, VetMB, Ph.D., DEO, DipECV, MRCVS RCVS & European Specialist in Equine Surgery  
Professor of Equine Orthopaedics, The Royal Veterinary College

**Tuesday, September 19, 2006, 4:00-5:00pm/JMB Class 62**

*Title: Degeneration of Cartilage and Meniscus: Insights From In Vitro Model Systems*

Marc Levenston, Ph.D., Associate Professor, George W. Woodruff School of Mechanical Engineering  
Georgia Institute of Technology

**Visiting Professorship Series - Academic Year 2005-2006**

**Tuesday, June 13, 2006/BRB 251**

*Title: Biological Fixation of Soft Tissue to Bone: A Tissue Engineered Approach*

Helen Lu, Ph.D., Assistant Professor of Biomedical Engineering, Columbia University

**Tuesday, May 9, 2006/BRB 251**

*Title: Linking Endochondral Skeletal Development To Hematopoiesis Through Analysis of Transgenic Mouse Models*

Olena Jacenko, Ph.D., Associate Professor of Animal Biology, University of Pennsylvania

**Tuesday, April 11, 2006/BRB**

*Title: New Insights Into The Multisystem Pathogenesis of Marfan Syndrome*

Hal Dietz, M.D., Victor A. McKusick Professor of Medicine & Genetics, Johns Hopkins University

**Tuesday, March 7, 2006/BRB**

*Title: Developmental Paradigms for Cell-Based Tissue Engineering*

Rocky S. Tuan, Ph.D., Branch Chief, Cartilage Biology & Orthopaedics, The National Institutes of Health

**Tuesday, February 21, 2006/BRB**

*Title: Mechanics of Osteoporotic Trabecular Bone*

X. Edward Guo, Ph.D., Associate Professor of Biomedical Engineering, Columbia University

**Tuesday, January 17, 2006/BRB**

*Title: Molecular Motors: Smart, Soft Musculoskeletal Nano-Machines*

Yale Goldman, M.D., Ph.D., Director, Pennsylvania Muscle Institute, Professor of Physiology, University of Pennsylvania

**Tuesday, December 13, 2005/BRB 251**

*Title: Mechanosensitivity of Stem Cells*

Jeffrey C. Lotz, Ph.D., Professor, Orthopaedic Surgery, University of California, San Francisco

**Tuesday, November 8, 2005/BRB 251**

*Title: Development of Tendon Extracellular Matrix Structure and Function: Regulation By Collagen and Proteoglycan Interactions*

David E. Birk, Ph.D., Professor, Department of Pathology, Anatomy & Cell Biology  
Jefferson Medical College

**ANNUAL SCIENTIFIC SYMPOSIUM (All Day Event)**

**Tuesday, October 11, 2005, 8:00am-3:30pm/BRB Auditorium**

*Title: Is There Potential for Cartilage Repair?*

Linda J. Sandell, Ph.D., Professor & Director of Research, Department of Orthopaedic Surgery  
Professor, Department of Cell Biology & Physiology, Washington University School of Medicine

**Thursday, September 15, 2005/BRB 251**

*Title: Mechanotransduction in Tendon Cells: Implications for Rehabilitation and Overuse Injuries*

Steven P. Arnoczky, D.V.M., Wade O. Brinker Endowed Professor of Veterinary Surgery  
Director, Laboratory for Comparative Orthopaedic Research, Michigan State University

**Visiting Professorship Series - Academic Year 2004-2005**

**Tuesday, July 26, 2005/BRB 252**

*Title: Biological and Mechanical Studies of Skeletal Muscle Injury*

Richard Lieber, Ph.D., Professor of Orthopaedics & Bioengineering, University of California, San Diego & V.A. Medical Centers

**Tuesday, June 14, 2005/BRB 252**

*Title: Molecular MRI of Connective Tissues*

Ravinder Reddy, Ph.D., Scientific Director, MMRRCC; Associate Professor, Department of Radiology  
University of Pennsylvania

**Tuesday, May 17, 2005/BRB 252**

*Title: Structure and Function of Decorin-Based Proteoglycans in Ligament*

Jeffrey A. Weiss, Ph.D., Director, Musculoskeletal Research Laboratories; Associate Professor Bioengineering,  
University of Utah

**Tuesday, April 19, 2005/BRB 252**

*Title: Applications of Medical Imaging In Orthopedic Biomechanics and Biomechanics In Functional Tissue Engineering*

Kai-Nan An, Ph.D., Chair, Orthopaedic Research; Co-Director, Biomechanics Laboratory  
Mayo Clinic, Rochester, MN

**Tuesday, March 15, 2005/BRB 252**

*Title: Molecular Mechanisms of Bone Repair*

Louis Gerstenfeld, Ph.D., Director, Musculoskeletal Research Lab; Professor of Orthopaedic Surgery & Biochemistry,  
Boston University

**Tuesday, February 15, 2005/BRB 252**

*Title: Skeletal Response to In Vivo Fatigue Loading*

Matthew J. Silva, Ph.D., Associate Professor, Orthopaedic Surgery & Biomedical Engineering  
Barnes-Jewish Hospital At Washington University

**Tuesday, January 18, 2005/BRB 252**

*Title: Magnetic Resonance Microimaging and Spectroscopy of Engineered Cartilage Tissue Developing in a Hollow-Fiber Bioreactor*

Richard Spencer, M.D., Ph.D., Chief, Nuclear Magnetic Resonance Unit, NIH/National Institute on Aging

**Thursday, December 16, 2004/BRB 252**

*Title: Control of Endochondral Bone formation by Retinoids and Bmps*

Sherrill Adams, Ph.D., Professor & Chair, Biochemistry, School of Dental Medicine, University of Pennsylvania

**Thursday, November 11, 2004/BRB 251**

*Title: Muscle in Health and Disease: Building Pathways using Genome-Enabled Tools*

Eric P. Hoffman, Ph.D., Director, Research Center for Genetic Medicine  
Children's National Medical Center

**Monday, October 18, 2004/BRB 252**

*Title: Muscular Dystrophy: Seeing a Solution*

Tejvir S. Khurana, M.D., Ph.D., Assistant Professor, Physiology, Pennsylvania Muscle Institute  
University of Pennsylvania