



PENN
CENTER for
MUSCULOSKELETAL
DISORDERS

Visiting Professorship Series-Academic Year 2023-2024

Tuesday, June 18, 2024, 1:30 pm-2:30 pm / CRB Austrian Auditorium

Title: Rotator Cuff Tear and Repair: From Bedside to Bench

Kathleen Derwin, PhD

Department Vice Chair

Associate Staff, Biomedical Engineering

Director, Musculoskeletal Research Center, Lerner Research Institute, Cleveland Clinic

Rescheduled to October 2024

Tuesday, May 14, 2024, 1:30 pm-2:30 pm / CRB Austrian Auditorium/Joint with IRM

Title: Interrogating Osteoclast Biology by Live Cell Imaging Reveals Novel Insight into their Cellular and Resorption Dynamics

Sarah L. Dallas, PhD

University of Missouri Curator's Distinguished Professor

Lee M. and William Lefkowitz Endowed Professor, University of Missouri-Kansas City

Monday, April 15, 2024, 3:00 pm-4:00 pm / CRB Austrian Auditorium/Joint with Pennsylvania Muscle Institute

Title: Mechanisms of Hippo Pathway Dysregulation in Sarcomas

Munir Tanas, M.D.

Associate Professor of Pathology

Carver College of Medicine, University of Iowa Health Care

Tuesday, March 19, 2024, 1:30 pm-2:30 pm / CRB Austrian Auditorium/Joint with IRM

Title: Bone Building Molecular Targets: Lessons from Mechanical Signaling in Skeletal Tissues

Alexander Robling, PhD

Chair, Anatomy, Cell Biology & Physiology, Indiana University, School of Medicine

~~**Tuesday, February 20, 2024, 1:30 pm-2:30 pm / CRB Austrian Auditorium—Seminar canceled**~~

~~*Title: Perspectives on Tendon Development*~~

~~**Ronen Schweitzer, PhD**~~

~~Interim Director of Research, Shriners Hospital for Children - Portland~~

~~Professor in Orthopaedics and Cell, Developmental and Cancer Biology~~

~~Oregon Health & Science University~~

Tuesday, January 23, 2024, 1:30 pm-2:30 pm / CRB Austrian Auditorium

Joint with IRM

Title: Myostatin: A Molecular Rheostat for Muscle Mass

Se-Jin Lee, M.D., PhD

Presidential Distinguished Professor, Genetics and Genome Sciences

Joint Appointment, The Jackson Laboratory for Genomic Medicine

MD/PhD Executive Committee Chair, University of Connecticut

Tuesday, December 12, 2023, 1:30 pm-2:30 pm / CRB Austrian Auditorium

Title: Understanding Joint Health Through Whole Joint Biomechanics and Mechanobiology

Hai Yao, PhD

Professor and Ernest R. Norville Endowed Chair

Associate Chair for CU-MUSC Bioengineering Program

Associate Vice President for Biomedical Innovation, Department of Bioengineering, Clemson University

Wednesday, November 15, 2023, 8:00 am-6:30 pm / Smilow Rubinstein Auditorium & Commons
ANNUAL SCIENTIFIC SYMPOSIUM (all day event)

Title: Navigating the NIH: The Program Director Perspective

Keynote Speaker: Charles Washabaugh, PhD

Program Director, National Institute of Arthritis and Musculoskeletal and Skin Diseases,
National Institute of Health

Tuesday, October 17, 2023, 1:30 pm-2:30 pm / CRB Austrian Auditorium

Title: My Journey to Demystify the Marvelous Misunderstood Meniscus

Suzanne Maher, Ph.D.

Senior Scientist, Research Institute and Co-Director, Orthopedic Soft Tissue Research Program, Research Institute
Associate Director, Department of Biomechanics, Hospital for Special Surgery

Tuesday, September 12, 2023, 130pm-2:30 pm / CRB Austrian Auditorium

Title: Decorin: A Central Player of Cartilage Extracellular Matrix in Health and Disease

Lin Han, Ph.D.

Associate Professor, School of Biomedical Engineering, Science and Health Systems
Drexel University

Visiting Professorship Series-Academic Year 2022-2023

Tuesday, June 13, 2023, 130pm-2:30pm/CRB Austrian Auditorium

Title: Immunoengineering in the Musculoskeletal System

Jennifer Elisseeff, Ph.D., Morton Goldberg Professor; Wilmer Eye Institute and Biomedical Engineering
Translational Tissue Engineering Center; Board of Maryland's Technology Development Corporation (TEDCO)
Johns Hopkins University

Tuesday, May 23, 2023, 1:30pm-2:30pm/CRB Austrian Auditorium/Joint with IRM

Title: Thinking Outside the Joint: Can Targeting the Intestine Support OA Disease Modification?

Michael Zuscik, Ph.D., Mack Clayton Professor and Vice Chair of Research, Department of Orthopedics
University of Colorado

Tuesday, April 18, 2023, 1:30pm-2:30pm/CRB Austrian Auditorium

Title: Biomechanical & Energetic Factors Associated with Physical Activity Limitations in Osteoarthritis

Khurma C. Foucher, M.D., Ph.D., Associate Professor, Department of Kinesiology and Nutrition
Director, Biomechanics and Clinical Outcomes Laboratory, University of Illinois at Chicago

Tuesday, March 28, 2023, 1:30pm-2:30pm/CRB Austrian Auditorium

Title: From Bench to Human Trials: How did we get there?

Patrick Mooney, M.D., Ceo and Director

Christopher Natale, Ph.D., Co-Founder and VP, Research
Linnaeus Therapeutics

~~**Tuesday, February 21, 2023, 130pm-2:30pm/CRB Austrian Auditorium**~~ **Rescheduled until June 2023**

Title: Immunoengineering in the Musculoskeletal System

Jennifer Elisseeff, Ph.D., Morton Goldberg Professor; Wilmer Eye Institute and Biomedical Engineering
Translational Tissue Engineering Center; Board of Maryland's Technology Development Corporation (TEDCO)
Johns Hopkins University

Tuesday, January 24, 2023, 1:30pm-2:30pm/CRB Austrian Auditorium

Title: Life, Death and Transformation in the Transition Zone, Implications for Bone Healing

Ralph Marcucio, Ph.D., Professor of Orthopaedic Research; Director, Laboratory for Skeletal Regeneration
Orthopaedic Trauma Institute; Co-Director, Oral and Craniofacial Science Graduate Program, University of California,
San Francisco

Tuesday, December 13, 2022, 1:30pm-2:30pm/CRB Austrian Auditorium

Title: The Physiology and Pathophysiology of FGF23 in Skeletal and Mineral Biology

Michael T. Collins, M.D., FASBMR

Senior Investigator; Chief, Section on Skeletal Disorders and Mineral Homeostasis; National Institute of Dental and Craniofacial Research, National Institute of Health

Wednesday, November 16, 2022, 8:15am-6:30pm/Smilow Rubinstein Auditorium/Commons

ANNUAL SCIENTIFIC SYMPOSIUM (all day event)

Keynote Speaker - Lori A. Setton, Ph.D., Lucy and Stanley Lopata Distinguished Professor & Chair of Biomedical Engineering, Washington University in St. Louis

Tuesday, October 25, 2022, 1:30pm — 2:30pm

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

Chuanju Liu, Ph.D.

Professor and Director, Translational Orthopaedic Research Laboratory; Department of Orthopaedic Surgery and Cell Biology, NYU Grossman School of Medicine

Tuesday, September 20, 2022, 1:30pm — 2:30pm

Title: Building Tissues Engineering Complexity Through Biomaterial Design

Brendan A. Harley, Sc.D., Robert W. Schaefer Professor, Department of Chemical and Biomolecular Engineering, Cancer Center at Illinois (CCIL); Carl R. Woses Institute for Genomic Biology, University of Illinois at Urbana-Champaign

Visiting Professorship Series-Academic Year 2021-2022

Tuesday, May 17, 2022, 1:30pm-2:30pm/CRB Austrian Auditorium

https://bluejeans.com/163462521630/607111756539?src=join_info

(Co-Sponsored by Penn Health-Tech)

Title: Bringing Academic Discoveries from the Lab to the Market.

Katherine Reuther, Ph.D., Executive Director, Penn Health-Tech; Practice Associate Professor in Bioengineering University of Pennsylvania

Tuesday, April 12, 2022, 1:30pm-2:30pm/CRB Austrian Auditorium

Title: Musculoskeletal Adaptation to Mechanical Loading.

Marjolein van der Meulen, Ph.D., James M. and Marsha McCormick Director of Biomedical Engineering

Swanson Professor of Biomedical Engineering; Meinig School of Biomedical Engineering, Cornell University

Tuesday, March 22, 2022, 1:30pm-2:30pm/CRB Austrian Auditorium

Title: Hypoxia and the Skeleton

Clare Yellowley, Ph.D., Professor of Anatomy, Physiology and Cell Biology, School of Veterinary Medicine University of California, Davis

Tuesday, January 25, 2022, 1:30pm-2:30pm/Virtual Seminar Link

https://bluejeans.com/428595277896/556211167641?src=join_info

Title: Advances in Regenerating Musculoskeletal Tissues

Warren L. Grayson, Ph.D., Professor of Biomedical Engineering and Director, Laboratory for Craniofacial and Orthopaedic Tissue Engineering Johns Hopkins University

Tuesday, December 14, 2021, 1:30pm-2:30pm/Virtual Seminar Link

(Co-Sponsored by IRM)

Title: “Combining Heat, Light, and Sound Based Biofabrications to Address Musculoskeletal Tissue Engineering Challenges”, Professor of Orthopaedic Surgery, Stanford University

Tuesday, November 09, 2021, 12:30pm-1:30pm/Virtual Seminar Link

Title: Pharmacological Approaches for Manipulating Bone Quality and Mechanics

Matthew R. Allen, Ph.D., Associate Professor of Anatomy & Cell Biology; Assistant Dean for Faculty Affairs and Professional Development, Indiana University School of Medicine

Tuesday, October 12, 2021, 1:30pm-2:30pm/Virtual Seminar Link

Title: Skeletal muscle postnatal growth and regenerative decline with age

Joe V. Chakkalakal, Ph.D., Dean's Associate Professor of Pharmacology and Physiology, University Rochester Medical Center

Tuesday, September 14, 2021, 1:30pm-2:30pm/CRB Austrian Auditorium (Virtual)

(Co-Sponsored by IRM)

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

Visiting Professorship Series-Academic Year 2020-2021

Tuesday, May 11, 2021, 1:30pm-2:30pm/Virtual Seminar Link <https://bluejeans.com/491611470>

Title: Harnessing Bioactive Lipids for Regenerative Engineering and Potency Analysis of Cellular Therapies

Edward Botchwey, Ph.D., Associate Professor, Wallace H. Coulter Department of Biomedical Engineering, Georgia Tech and Emory University

Tuesday, April 13, 2021, 1:30pm-2:30pm/Virtual Seminar Link <https://bluejeans.com/491611470>

Title: Targeting the gut to prevent osteoporosis

Laura McCabe, Ph.D., Professor, Department of Physiology; Professor, Department of Radiology; MSU Foundation Professor, Michigan State University

Tuesday, March 16, 2021, 1:30pm-2:30pm/Virtual Seminar Link <https://bluejeans.com/491611470>

Title: Seeking the Tendon Mechanostat

Jess G. Snedeker, Ph.D., Associate Professor of Orthopedic Biomechanics, University of Zurich; Department of Orthopedics, Medical Faculty and Institute for Biomechanics, Department of Health Sciences and Technology

~~**Tuesday, February 25, 2021, 1:30pm-2:30pm/Virtual Seminar Link**~~ **Canceled rescheduled to November 2021**

~~*Title: Pharmacological Approaches for Manipulating Bone Quality and Mechanics*~~

~~**Matthew R. Allen, Ph.D.**, Associate Professor of Anatomy & Cell Biology; Assistant Dean for Faculty Affairs and Professional Development, Indiana University School of Medicine~~

~~**Tuesday, January 12, 2021, 1:30pm-2:30pm/CRB Austrian Auditorium**~~ **Canceled due to COVID rescheduled to September 2021**

~~*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, 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, October 20, 2020, 1:30pm-2:30pm/CRB Austrian Auditorium

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, September 8, 2020, 1:30pm-2:30pm/CRB Austrian Auditorium

(Co-Sponsored by IRM)

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**~~ **Cancelled due to Coronavirus rescheduled January 12, 2021**

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 rescheduled October 20, 2020**

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, Iterim 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, Ph.D., Professor, Vice Chair for Research, Program Director, Ph.D. 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, Ph.D., 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, Ph.D., 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, Ph.D., 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, Ph.D., 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, Principal 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- β .

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, 1:30-2:30pm/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/Smilow 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/Smilow 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/Smilow 8-146AB

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/Smilow 10-146

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/Smilow 10-146

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/Smilow 11-146

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/Smilow 10-146

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/Smilow 10-146

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/Smilow 10-146

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. Kortenbergh, M.D., Professor of Medicine, Harvard Medical School

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

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/Smilow 11-146

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/BRB 252

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/BRB 251

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/BRB 251

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/BRB 251

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/BRB 251

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/BRB 251

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/BRB 251

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/BRB 251

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/BRB 251

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/BRB 251

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, 1:00-2:00pm/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, 1:00-2:00pm/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, 1:00-2:00pm/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 E₂ 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 for May 5, 2009**

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. Baner 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, 3:30-4:30pm/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

Ti tle: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

Title: *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, 8:00am-3:30pm/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, Dipcev, 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