ASBMR TOPICAL MEETING:

Bone and Skeletal Muscle Interactions

July 17–18, 2012
Kansas City, Missouri, USA

Pre-Meeting Workshop
July 16, 2012

Register now!
Osteoporosis and sarcopenia are major contributors to frailty in the elderly population and are growing public health problems. Although muscle loading of bone clearly plays a role in their interaction, little is known about potential cellular and molecular mechanisms.

This “state of the science” topical meeting will draw together leading muscle and bone researchers to exchange ideas, develop new collaborations and accelerate the emerging scientific discoveries in the area of muscle and bone interactions.

Program Highlights:

- What are the cellular and molecular mechanisms responsible for the positive effects of exercise on general well being?
- Why do fractures heal better with muscle covering the fracture?
- Do muscle and bone have similar responses to factors such as IGFs, wnts, androgens, nutritional macronutrients, other factors/hormones?
- Can both muscle and bone be regenerated simultaneously?
- What mechanisms are involved in the parallel loss of muscle and bone with increasing age?

Who Should Attend?

Our goal is to bring together investigators currently working in the areas of muscle and bone metabolism who are interested in the potential interactions and crosstalk between these two tissues.

This includes young investigators, NIH-funded investigators, industry scientists, clinicians interested in sarcopenia and osteoporosis, as well as geriatricians and gerontologists with an interest in aging and bone.
Pre-Meeting Workshop

ASBMR is hosting a Pre-Meeting Workshop in conjunction with the University of Missouri – Kansas City School of Dentistry on July 16th. This hands-on workshop, chaired by Mark L. Johnson, Ph.D., Charlotte L. Phillips, Ph.D. and Marco Brotto, MSN, Ph.D., will provide participants with an opportunity to learn and practice various techniques related to the analysis of bone and muscle. Participants will select from modules involving bone imaging, biomechanical testing and structural properties analysis, bone and muscle histology, muscle functional testing, bone-muscle immobilization, isolation of primary bone and muscle cells, live imaging of bone and muscle cells and in-vitro and in-vivo loading of bone and muscle. The workshop is limited to the first 50 registrants so register early! Please indicate your interest during the registration process.

Registration

Attendees may register online or by using the downloadable PDF form at www.asbmr.org. Register on or before Thursday, June 14, 2012 to receive the Early Registration discount. Early registration fees are $320 for ASBMR members; $370 for non-members; $150 for residents, students and fellows and $250 for government employees and allied health professionals. The Pre-Meeting Workshop is $85. After June 14th, fees will increase by up to $100.

Dine Around with Speakers

Attendees will have the opportunity to network with leading bone and muscle researchers during the Dine Around on Tuesday evening, July 17. Please indicate your interest in participation during the registration process.

Hotel Information

All sessions and events will take place at the Westin Kansas City at Crown Center with the exception of the Pre-Meeting Workshop on Monday, July 16 which is being held on the adjacent campus of the University of Missouri’s Dental School.

The hotel is located in the heart of downtown Kansas City, ranked by Forbes as one of the top 10 downtowns in the U.S. Be sure to book a room in the ASBMR room block and explore Kansas City’s vibrant, walkable communities.

The ASBMR discount rate is $125 for single or double occupancy. Wireless high-speed internet is included in this rate for all ASBMR attendees who book in the block. The reservation cut-off date is Tuesday, June 19, 2012.

Make reservations online at http://www.asbmr.org/TopicalMeetings/Hotel.aspx or by phone at (816) 474-4400.

“Emerging data suggests that muscle does more than just load bone, that cellular and biochemical communication is occurring between the two tissues from development through aging. This meeting will bring together investigators with the goals of discovering how these two tissues interact to ensure optimal function of each organ.”

— Lynda F. Bonewald, Ph.D. University of Missouri, Kansas City, MO
Continuing Medical Education (CME)

Learning Objectives

1. To begin to understand the close association between muscle and bone during development and growth and how nutrition and physical activity affect general health.

2. To dissect the association between sarcopenia and osteoporosis and determine what role aging plays in these processes.

3. To identify molecular and cellular mechanisms responsible for the close association between muscle and bone in both health and disease and with aging.

4. To define defective mechanotransduction in both muscle and bone and identify means to treat musculoskeletal disease.

5. To identify means to prevent, treat, or reverse muscle and bone loss.

6. To determine if muscle communicates with bone independent of mechanical loading.

7. Based on the proceedings of the meeting, assess the feasibility of establishing a combined research field that integrates muscle and bone physiology in order to generate a better understanding of how these two tissues integrate and crosstalk in both health and disease.

Accreditation Statement

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the Institute for the Advancement of Human Behavior (IAHB) and the American Society for Bone and Mineral Research (ASBMR). The IAHB is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation Statement

The IAHB designates this live activity for a maximum of 22 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Detailed program information can be found at www.asbmr.org.
Faculty

Stephen F. Badylak, D.V.M., Ph.D., M.D., University of Pittsburgh, Pittsburgh, PA, USA
Susan A. Bloomfield, Ph.D., Texas A&M University, College Station, TX, USA
Vincent J. Caiozzo, Ph.D., University of California, Irvine, CA, USA
Thomas L. Clemens, Ph.D., Johns Hopkins University, Baltimore, MD, USA
Dawn DW Cornelison, Ph.D., University of Missouri, Columbia, MO, USA
Steven R. Cummings, M.D., San Francisco Coordinating Center, San Francisco, CA, USA
Bess Dawson-Hughes, M.D., Tufts University, Boston, MA, USA
Mark A. Febbraio, Ph.D., Baker IDI Heart & Diabetes Institute, Melbourne, Australia
David Glass, M.D., Novartis Institutes for BioMedical Research Inc, Cambridge, MA, USA
Tamara B. Harris, M.D., M.S., National Institute on Aging, NIH, Bethesda, MD, USA
Joseph A. Houmard, Ph.D., East Carolina University, Greenville, NC, USA
Mark L. Johnson, Ph.D., University of Missouri, Kansas City, MO, USA
Lyndon Joseph, Ph.D., National Institute on Aging, NIH, Bethesda, MD, USA
Gerard Karsenty, M.D., Ph.D., Columbia University Medical Center, New York, NY, USA
Sundeep Khosla, M.D., Mayo Clinic, Rochester, MN, USA
Douglas P. Kiel, M.D., M.P.H., Institute for Aging Research, Hebrew SeniorLife and Harvard Medical School, Boston, MA, USA
Nathan K. LeBrasseur, Ph.D., Mayo Clinic, Rochester, MN, USA
Mary B. Leonard, M.D., MSCE, The Children’s Hospital of Philadelphia, Philadelphia, PA, USA
Robert Marcus, M.D., Stanford University, Stanford, CA, USA
Joan A. McGowan, Ph.D., National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH, Bethesda, MD, USA
Glen Nuckols, Ph.D., National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH, Bethesda, MD, USA
Bradley B. Olwin, Ph.D., University of Colorado, Boulder, CO, USA
Regis J. O’Keefe, M.D., University of Rochester Medical Center, Rochester, NY, USA
Clifford J. Rosen, M.D., Maine Medical Center Research Institute, Scarborough, ME, USA
Clinton T. Rubin, Ph.D., Stony Brook University, Stony Brook, NY, USA
Stephanie A. Studenski, M.D., M.P.H., University of Pittsburgh, Pittsburgh, PA, USA
James G. Tidball, Ph.D., University of California, Los Angeles, CA, USA
John Williams, Ph.D., National Institute on Aging, NIH, Bethesda, MD, USA
Karen Winer, M.D., National Institute of Child Health and Human Development, NIH, Bethesda, MD, USA
Elazar Zelzer, Ph.D., Weizmann Institute of Science, Rehovot, Israel
Teresa A. Zimmers, Ph.D., Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, USA

Organizing Committee

Lynda F. Bonewald, Ph.D. (Chair), University of Missouri, Kansas City, MO, USA
Roger A. Fielding, Ph.D., (Co-Chair), Tufts University, Boston, MA, USA
Thomas L. Clemens, Ph.D., Johns Hopkins University, Baltimore, MD, USA
Karyn Esser, Ph.D., University of Kentucky, Lexington, KY, USA
Regis J. O’ Keefe, M.D., University of Rochester Medical Center, Rochester, NY, USA
Douglas P. Kiel, M.D., M.P.H., Institute for Aging Research, Hebrew SeniorLife and Harvard Medical School, Boston, MA, USA
Eric S. Orwoll, M.D., Oregon Health and Science University, Portland, OR, USA
Charlotte A. Peterson, Ph.D., University of Kentucky, Lexington, KY, USA
Important Dates

Please note the following critical deadlines:

- Attendees may receive the Early Registration discount through **Thursday, June 14, 2012**.
- Discounted housing rates will be available through **Tuesday, June 19, 2012**.

For more information, please contact:

American Society for Bone and Mineral Research
Tel: +1(202) 367-1161
Fax: +1(202) 367-2161
E-mail: asbmr@asbmr.org
Web Site: www.asbmr.org