

2017 Oklahoma Geroscience Meeting

Oklahoma City, Oklahoma | March 16, 2017

Physiology of Skeletal Muscle and Bone during Aging: Impacts on Healthspan

Special Invited Guest: John Williams, PhD, Program Officer, Musculoskeletal Biology Program in the Division of Aging Biology, NIA

Session 1. Age-Related Molecular and Physiologic Changes in Musculoskeletal Biology

8:30-9:00 Susan Brooks (University of Michigan)
"Extracellular matrix in aging muscle and tendon"

9:00-9:30 Holly Van Remmen (OMRF, VA)
"Mechanisms of sarcopenia"

9:30-10:00 Charlotte Peterson (University of Kentucky)
"Molecular and cellular regulators of sarcopenia"

Coffee Break 10:00-10:30

Session 2. Effects of Aging on Muscle Function and Activity in Humans

10:30-11:00 David Marcinek (University of Washington)
"Interaction between in vivo mitochondrial function, redox biology, and skeletal muscle health in aging"

11:00-11:30 Mike Bemben (OU-Norman)
"Potentiating Muscle Hypertrophy in the Elderly"

11:30-12:00 Malcolm Jackson (University of Liverpool)
"Assessment of the age-related decline in the integrated musculoskeletal system"

Lunch 12:00-1:00 (provided for participants)

1:00-2:00 Poster session

2:00-3:00 **Keynote Speaker**, Tom Rando, (Stanford University)
"Aging, stem cells, and tissue regeneration" (Sponsored by OCASCR)

Break 3:00-3:30

Session 3. Age-Related Changes in Bone Structure Function and Pathophysiology.

3:30-4:00 Debra Bemben (OU-Norman)
"Exercise interventions for bone health and osteoporosis intervention"

4:00-4:30 Tim Griffin (OMRF)
"Age-related changes in cartilage metabolism and redox regulation"

4:30-5:00 Mary Beth Humphrey (OUHSC, VA)
"High fat diet induced osteoarthritis"

5:00-6:00 Cocktail Reception

7:00 Dinner for Speakers

Hosted by the Oklahoma Nathan Shock Center & OMRF | Registration is FREE

Location: OMRF Wileman Auditorium, 825 NE 13th St., Oklahoma City

Sponsored by: Presbyterian Health Foundation, University of Oklahoma Health Sciences Center VPR office, OKC-VA Medical Center, Reynolds Oklahoma Center on Aging & Oklahoma Center for Adult Stem Cell Research

For information on housing please contact Stephanie Matyi (Stephanie-Matyi@ouhsc.edu).