

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, Professor, Molecular & Integrative Physiology; Biomedical engineering (University of Michigan)
"Extracellular matrix in aging muscle and tendon"
- 9:00-9:30 Holly Van Remmen, Member & Program Chair, Aging & Metabolism Program (OMRF, VA)
"The role of mitochondrial ROS in sarcopenia"
- 9:30-10:00 Charlotte Peterson, Professor & Director of the Center for Muscle Biology, (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, Associate Professor, Department of Radiology (University of Washington)
"Interaction between in vivo mitochondrial function, redox biology, & skeletal muscle health in aging"
- 11:00-11:30 Mike Bembien, Professor & Chair, Department of Health and Exercise Science (OU-Norman)
"Potentiating muscle hypertrophy in the elderly"
- 11:30-12:00 Malcolm Jackson, Professor & Head of Institute of Aging & Chronic Disease (University of Liverpool)
"Assessment of the age-related decline in the integrated musculoskeletal system"

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

- Session 3. Age-Related Changes in Bone Structure Function and Pathophysiology**
- 1:00-1:30 Debra Bembien, Professor, Department of Health & Exercise Science (OU-Norman)
"Exercise interventions for bone health and osteoporosis intervention"
- 1:30-2:00 Tim Griffin, Associate Member, Aging & Metabolism Program (OMRF)
"Age-related changes in cartilage metabolism and redox regulation"
- 2:00-2:30 Mary Beth Humphrey, Associate Professor, Department of Medicine, Rheumatology & Immunology (OUHSC, VA)
"High fat diet induced osteoarthritis"
- 2:30-3:45 Poster session
- 3:45-4:45 **Keynote Speaker**, Tom Rando, Professor of Neurology & Neurological Science & Deputy Director, Stanford Center on Longevity (Stanford University)
"Aging, stem cells, and tissue regeneration" (Sponsored by OCASCR)
- 4:45-5:00 Closing Remarks
- 5:00-6:00 Reception
- 7:00 Dinner for Speakers

Hosted by the Oklahoma Nathan Shock Center & Oklahoma Medical Research Foundation (OMRF)

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 & OMRF

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

Registration is FREE - gerosciencemeeting.omrf.org