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  
8:30-9:00  Age-Related Molecular and Physiologic Changes in Musculoskeletal Biology  
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  
10:30-11:00  Effects of Aging on Muscle Function and Activity in Humans  
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 Bemben, 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  
1:00-1:30  Age-Related Changes in Bone Structure Function and Pathophysiology  
Debra Bemben, 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