PURPOSE
Join us for the seventh APS Intersociety Meeting: The Integrative Biology of Exercise which is held in conjunction with the American College of Sport Medicine (ACSM) every four years for researchers interested in exercise physiology. Connect with peers at this exciting meeting to discuss exercise physiology as it relates to topics including brain cell stress responses, metabolic diseases, mitochondrial signaling, sedentary behavior, exercise and pregnancy, cardiovascular disease, aging, and stem cells.

DEADLINES
Abstract: June 30
Registration: October 3
Housing: October 18

LOCATION: Phoenix, Arizona
The Hyatt Regency Phoenix is located in the heart of the city close to dining, activities, and shopping. Enjoy warm temperatures and a sunny climate while visiting the Desert Botanical Garden or the Phoenix Mountains Preserve. Experience one of the seven Natural wonders of the World at the Grand Canyon National Park. More than one hundred restaurants, rooftop lounges, theaters, art galleries, and sports arenas are located in downtown Phoenix so you will never be short on things to do in this vibrant city.

The Hyatt Regency is easily accessible from the Phoenix Sky Harbor International Airport being 15 minutes away. Temperatures in this area during November usually range from the upper 70's to lower 80's making the outdoors ideal for all types of activities.

For more information on the city of Phoenix, please visit visitphoenix.com.

ORGANIZING COMMITTEE
Darrell Neufer (Chair)  East Carolina University
Sue Bodine  University of California, Davis
Craig Emter  University of Missouri, Columbia
Roger Fielding  Tufts University
Monika Flashner  University of Colorado, Boulder
Matthijs Hesseling  Maastricht University Medical Centre, The Netherlands
Jeff Horowitz  University of Michigan
Michael Jayner  Mayo Clinic
William Kraus  Duke University
Mark Mattson  National Institute on Aging, NIH
Deborah Muoio  Duke University
John Thyfault  Kansas University Medical Center
Matt Watt  Monash University, Australia
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Deborah Muoio  Duke University
John Thyfault  Kansas University Medical Center
Matt Watt  Monash University, Australia

For more information or to register, visit the-aps.org/exercise

Call for Abstracts
MEETING PROGRAM

Symposia I
Concurrent Symposia IV
• Connecting the Exercise Response to Health Benefits—Marc Tarnopolsky
• Influence of Exercise and Circadian Biomarkers on Multi-Omics Integrated Networks in Children—Eric Hoffman
• Gut Microbiota to Brain Signaling in Exercise-Induced Stress Robustness—Monika Fleshner
• Mapping the Human Exercise Signaling Kinase Network—David James

Concurrent Symposia VI
Activity/Exercise During Pregnancy and Early Development: Implications for Long-Term Health
• Impact of Paternal Exercise on Offspring Health—Alex Murashov
• Exercise During Pregnancy and Long Term Impact on Offspring Health—Kevin Pearson
• Gestational Exercise and Impact on Long Term Activity of Offspring—Ted Garland
• Maternal and Offspring Adaptations to Maternal Exercise and Obesogenic Diets—Kartik Shankar

Concurrent Symposia VII
Impact of Exercise on Adipose Tissue Metabolism—Beyond Browning
• Exercise and Adipose Tissue Fibrosis—Carey Lumeng
• Exercise Effects on Adipocyte Cell Size and Expansibility—Jeff Horowitz
• Exercise and Regulation of Adipose Tissue Blood Flow & Metabolism—Fredrik Karp
• Exercise Training, Adipocyte Precursors, and miRNA Regulation of Metabolism—Fredrik Karpe

Symposia II
Concurrent Symposia VIII
• Exercise Triggers Adaptive Brain Cell Stress Responses—Gregory Steinberg
• Exercise Proteins: The Brain Against Chronic Stress—Karim Akkadhi
• Exercise and Endocannabinoid Signaling in Humans—Dave Raichlen
• Exercise and Brain Plasticity—Henriette van Praag
• How Sedentary Lifestyles Impact Adaptive Neuroplasticity—Alex Streeter

Concurrent Symposia IX
的影响 of Exercise and Circadian Biomarkers on Multi-Omics Integrated Networks in Children—Eric Hoffman
• Gut Microbiota to Brain Signaling in Exercise-Induced Stress Robustness—Monika Fleshner
• Mapping the Human Exercise Signaling Kinase Network—David James

Concurrent Symposia III
Substrate Control During Exercise: Novel Insights for Halting the Pathogenesis of Metabolic Diseases
• Cellular Energy Sensing and the Regulation of Metabolism—Gregory Steinberg
• Exercise Training, Lipid Droplets, and Oxidative Phenotype—Mats Esselink
• Phosphatidylethanolamine Synthesis in Regulating Skeletal Muscle Lipid Content and Mitochondrial Function: Implications for Insulin Action—Clint Bruce
• Exercise and Adipose Tissue Remodeling: Pathways for Halting Diabetes Pathogenesis—Laurie Goodyear

Plenary Lecture
Adaptive Responses of Neuronal Mitochondria to Exercise
Speaker: Mark Mattson

Career Session
The Physiology of Sedentary Behavior, How is it Distinguished from Physical Inactivity
• Epidemiology of Sedentary Behavior—Peter Katzmarzyk
• Physiology of Sedentary Behavior and its Relationship to Health Outcomes—David Dunstan
• Genetics of Exercise Resistance—Rod Dishman
• Novel Strategies and Approaches for Sedentary Behavior Physiology Research—William Kraus

Closing Lecture
Sensorimotor Training of Spinal Networks to Restore Function in Spinal Cord Injured Patients
Speaker: Reggie Edgerton

ABSTRACTS
An exciting part of the meeting is the presentation of scientific abstracts. There are two poster sessions during the meeting that allow you to present your research along with your colleagues and peers. Deadline for abstract submission is June 30, 2016. The abstract online system is already accepting abstracts. Submit your abstract(s) in a few easy steps now! For more information, visit the-aps.org/exercise.

AWARDS
Calling all students and Postdoctoral Fellows. You may be eligible for travel award funding for this meeting. There are two awards available, the APS Abstract Travel Award and the APS Minority Travel Fellowship Award. Don’t miss out on funding to attend this meeting. Deadline for both awards is July 8, 2016. For more information, visit the-aps.org/exercise.

HOUSING
This meeting is being held at the Hyatt Regency Phoenix in downtown Phoenix. The hotel is close to dining, shopping, and the convenient Valley Metro Light Rail system, which are all minutes from the Phoenix Sky Harbor International Airport. Single, double, triple, and quad occupancy rooms are available online. Deadline for housing is October 18, 2016. For more information, visit the-aps.org/exercise.

REGISTRATION
We can’t wait for you to attend this meeting. Plan in advance and save on your registration fee. On-site registration is significantly higher than the advance registration fee so register early! Not an APS Member and want to save on the registration fee? No problem, join APS and become a member so you can also save on your registration fee! Enjoy your membership benefit of discounted registration when you join. Deadline for registration is October 3, 2016. For more information, visit the-aps.org/exercise.

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