Botanicals & Translational Medicine
February 6-8, 2013
Pennington Scientific Symposium

BOTANICALS AND TRANSLATIONAL MEDICINE

February 7-8, 2013

Symposium Chairs

William Cefalu, MD
Associate Executive Director of Clinical Research
Douglas L. Manship, Sr. Professor of Diabetes
Pennington Biomedical Research Center & LSUHSC School of Medicine

John Parks, PhD
Professor, Pathology-Lipid Sciences
Wake Forest School of Medicine

Jacqueline Stephens, PhD
Endowed Professor, Adipocyte Biology
Pennington Biomedical Research Center
Thursday, February 7, 2013
All symposium sessions will be held in the Abell Board Room of the Lod Cook Alumni Center at LSU, Main Campus, 3838 West Lakeshore Drive.

SESSION 1 PLENARY

8:30-9:15  Botanicals and Human Diseases: A Paradigm Shift in Research Approach
William Cefalu, MD
Pennington Biomedical Research Center

SESSION 2  NOVEL TARGETS FOR BOTANICAL RESEARCH  Chair: Jacqueline Stephens

9:15-10:00  Orphan Nuclear Receptors – Targets for New Drugs and Botanicals
Thomas Burris, PhD
The Scripps Research Institute, Florida Campus

10:15-11:00  Inflammation as a Target for Botanical Therapy
Martin Obin, PhD
Jean Mayer USDA HNRCA at Tufts University

11:00-11:45  Improving Insulin Action by Attenuation of Muscle Degradation
Elizabeth Floyd, PhD
Pennington Biomedical Research Center

11:45-12:30  MicroRNA Regulation in Cardiovascular Disease: An Opportunity to Intervene
Kasey Vickers, PhD
Vanderbilt University

SESSION 3  APPROACHES TO THE STUDY OF BOTANICALS  Chair: John Parks

1:15-2:00  Botanical Integrity and Gastrointestinal Models
David Ribnicky, PhD
Rutgers University

2:00-2:45  Animal Models Relevant to Type 2 Diabetes and Atherosclerosis
Jan Wagner, PhD, DVM
Wake Forest School of Medicine

3:00-3:45  Emerging Technologies for Improving Phytochemical Bioavailability: Benefits and Risks
Bill Gurley, PhD
University of Arkansas for Medical Sciences

3:45-4:30  Adipogenesis and Adipocyte Function in Attenuation of Insulin Resistance
Jacqueline Stephens, PhD
Pennington Biomedical Research Center

4:30-5:00  Questions and Wrap up
Cefalu/Stephens/Parks
Friday, February 8, 2013

SESSION 4  TRANSLATIONAL MEDICINE: BOTANICALS AND CHRONIC DISEASE
   Chairs: John Parks/Jacqueline Stephens

8:30-9:15  Citrus Flavonoids and the Prevention of Metabolic Dysregulation, Obesity, and Atherosclerosis
   Murray Huff, PhD
   The University of Western Ontario

9:15-10:00  Botanical Oils, Leukocytes, and Atherosclerosis
   John Parks, PhD
   Wake Forest School of Medicine

10:00-10:45  Monounsaturated Fatty Acids: Underappreciated Villains in Atherosclerosis
   Lawrence L. Rudel, PhD
   Wake Forest School of Medicine

10:45-11:30  Quality or Quantity of Dietary Fat – Where Should the Emphasis Be?
   Alice Lichtenstein, D.Sc.
   Jean Mayer USDA HNRCA at Tufts University

11:30-12:15  Botanicals, Inflammation and Oxidative Stress: A Metabolomics Approach
   Mary Ann Lila, PhD
   North Carolina State University’s Plants for Human Health Institute

12:15-1:00  CONSENSUS DISCUSSION