



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 **Nuclear Targets for Botanical Research**
Thomas Burris, PhD
The Scripps Research Institute, Florida Campus

10:00-10:15 **BREAK**

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

12:30-1:15 **LUNCH - Lod Cook Alumni Center, Cook Room**

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

1:15-2:00 **Botanical Integrity and/or 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

2:45-3:00 **BREAK**

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 **Addressing 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
- 5:00-7:00** **Hospitality Suite Open, Lod Cook Hotel, #528**
- 7:00-9:00** **Dinner - Lod Cook Alumni Center, Cook Room**
- 9:00** **Hospitality Suite Open, Lod Cook Hotel, #528**

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
- 10:00-10:15** **BREAK**
- 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** **LUNCH and CONSENSUS DISCUSSION**