



The UAB Comprehensive Cancer Center and UAB School of Medicine present:

## SCIENTIFIC SYMPOSIUM

### METABOLOMICS, THE UNDERLYING BASIS OF DISEASE

*Additional Sponsorship from the UAB-UCSD O'Brien Center for Acute Kidney Injury, the UAB Center for Free Radical Biology, the UAB Nutrition Obesity Research Center, the UAB Comprehensive Diabetes Center, the UAB Comprehensive Cardiovascular Center, the UAB Diabetes Research and Training Center and Metabolon*

**Wednesday, December 12, 2012 • UAB Alumni Society House**

*Open to faculty, postdoctoral fellows, students and staff*

7:30- 8:00	Registration/Breakfast	10:50- 11:20	<b>Applying Metabolomics™ to Advance Research</b> Elizabeth Kensicki <i>Metabolon</i>
8:00- 8:05	<b>Symposium Introduction</b> Krista Casazza, PhD, RD <i>Assistant Professor of Nutrition Sciences, UAB</i>	11:25- 11:55	<b>Metabonomics - NMR in the clinical environment</b> Manfred Spraul, PhD <i>Bruker Daltonics</i>
8:05- 8:15	<b>UAB and Metabolomics</b> Robert Kimberly, MD <i>Associate Dean for Research, UAB</i>	Noon	<b>Lunch and focused expert sessions</b>
8:15- 8:35	<b>NIH Common Fund Program in Metabolomics</b> Stephen Barnes, PhD <i>Professor of Pharmacology &amp; Toxicology, UAB</i>	12:35- 12:50	<b>SWATH-MS in metabolomics</b> Brigitte Simons, PhD <i>AB-Sciex</i>
8:45- 9:25	<b>Metabolomics-targeted and translational</b> Christopher B. Newgard, PhD <i>Director, Sarah W. Stedman Nutrition and Metabolism Center, Duke University</i>	1:00- 1:30	<b>Using Metabolomics to Discover Novel Biomarkers for Common Diseases</b> David Wishart <i>Professor of Computing Science, University of Alberta</i>
9:25- 9:35	<b>Questions</b>	1:40- 1:55	<b>Oxidized lipids in chronic inflammatory disease</b> Janusz Kabarowski, PhD <i>Associate Professor of Microbiology, UAB</i>
9:35- 10:00	<b>Experimental design in metabolomics</b> Grier Page, PhD <i>Senior Statistical Geneticist at RTI International</i>	2:00- 2:15	<b>NAD metabolism and cell senescence: Role for the NAD glycohodrolase CD38</b> Frances Lund, PhD <i>Professor of Microbiology, UAB</i>
10:05- 10:20	<b>Coffee Break</b>	2:20- 2:35	<b>Metabolism in the Krebs cycle in breast cancer cells</b> Keshav Singh, PhD <i>Professor of Genetics, UAB</i>
10:20- 10:45	<b>Using Metabolomics to Understand Valproate-Induced Obesity in Pediatric Patients with Epilepsy</b> Andrew Patterson, PhD <i>Assistant Professor of Molecular Toxicology, Penn State University</i>	2:40- 2:55	<b>Use of Metabolomics to Identify Transcriptional Regulators of Renal Cancer Metabolism</b> Sunil Sudarshan, <i>Associate Professor of Urology, UAB</i>



Guided tours of the facilities for metabolomics (in CHEM 153 and MCLM 459) will begin at 3:30 pm