

THE 44th SOUTHEASTERN REGIONAL LIPID CONFERENCE

November 11-13, 2009

High Hampton Inn

Cashiers, NC

Schedule of Events

Wednesday, November 11, 2009

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| 4:00-6:00pm | Registration for all pre-paid SERLC participants: Lobby of High Hampton |
| 5:00-6:00pm | Registrations for all late registration SERLC participants: Lobby of High Hampton |
| 6:00-7:00pm | Reception: Wade Hampton Room |
| 7:00-8:00pm | Dinner |
| 8:15-8:30pm | Opening Remarks by SERLC Chair (Dr. Frank Fang) and Sponsor Recognition: Pavilion |
| 8:30-9:30pm | Keynote Speaker: Dr. Jerold Chun, The Scripps Research Institute, San Diego, CA " <i>Lysophospholipid Receptors: From Discovery to Therapy</i> ": Pavilion |
| 9:30pm-midnight | Social Time: Wade Hampton Room |

Thursday, November 12, 2009

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| 7:00-8:00am | Breakfast |
| 8:00-9:45am | Session I: Lipid Metabolism and Analysis: Pavilion Chair: Dr. Jeremy Allegood, Virginia Commonwealth University, Richmond, VA,
Co-chair: Dr. Guanghu Wang, Medical College of Georgia, Augusta, GA |
| 8:00-8:15am | "Structural diversity and quantitation of sphingomyelins in human plasma" Rebecca Shaner, Georgia Institute of Technology, Atlanta, GA |

- 8:15-8:30am "Automated surface sampling employing nanoelectrospray mass spectrometry" Jack Henion, Advion BioSystems, Ithaca, NY
- 8:30-8:45am "S1P export from breast cancer cells by ABCC1 and ABCG2 is stimulated by estradiol" Masayuki Nagahashi, Virginia Commonwealth University, Richmond, VA
- 8:45-9:00am "Characterization of mice with targeted inactivation of lipid phosphate phosphatase 3 (LPP3) in vascular endothelium" Abdel K. Salous, University of Kentucky, Lexington, KY
- 9:00-9:15am "Characterization of a lipid kinase involved in the synthesis of alkyl lysophosphatidic Acid" Amanda M. Gellett, University of Virginia, Charlottesville, VA
- 9:15-9:30am "Adenovirus infection alters metabolism in adipose and hepatic tissues", Marianna Sukholutsky, Virginia Commonwealth University, Richmond, VA
- 9:30-9:45am "Multiplexed precursor ion scanning derived glycerophospholipid and fatty acid profiling of liver tissue extracts in patients with non-alcoholic steatohepatitis", Brigitte Simons, Applied Biosystems|MDS Analytical Technologies, Concord ON, L4K 4V8. Canada
- 9:45-10:00am Coffee Break
- 10:00-11:45am: Session II: Lipid Signaling (focus on glycerolipids and fatty acids): Pavilion
Chair: Dr. Kimberly Paul, Clemson University, Clemson, SC
Co-chair: Dr. Paul Baker, University of Pittsburgh School of Medicine, Pittsburgh, PA
- 10:00-10:15am "Reactive oxygen species in LPA-dependent signaling pathways", LeAnn C. Rogers, Wake Forest University School of Medicine, Winston-Salem, NC
- 10:15-10:30am "Generation of the bioactive lipid mediator lysophosphatidic acid by Autotaxin/Lysophospholipase D through interaction with platelet integrins", Zachary Fulkerson, University of Kentucky College of Medicine, Lexington, KY
- 10:30-10:45am "The role of PLD2/AQP3/PG signaling module in mouse primary keratinocyte proliferation and differentiation", Haixia Qin, Medical College of Georgia, Augusta, GA
- 10:45-11:00am "Regulation of pre-mRNA splicing by group VIA phospholipase A2

(iPLA2)", Bhargavi Emani, Virginia Commonwealth University, Richmond, VA

- 11:00-11:15am "A dual function phosphatidic acid binding/nuclear localization motif contrls Lipin 1 function in metabolism and adipogenesis", Hongmei Ren, University of Kentucky College of Medicine, Lexington, KY
- 11:15-11:30am "Activation and translocation of PKC β II in response to pro-differentiative AQP3/PLD2/PG signaling cascade", Lakiea J. Bailey, Medical College of Georgia, Augusta, GA
- 11:30-11:45am "Initiation of *trypanosoma brucei* fatty acid synthesis: functional characterization and localization of acetyl-CoA carboxylase", Patrick A. Vigueira, Clemson University, Clemson, SC
- 12:00-1:00pm Lunch
- 1:00-4:00pm Free Time (Golfing, hiking, fishing)
- 4:00-6:00pm Poster Session: Wade Hampton Room
- 6:00-6:15pm Award Presentations: Pavilion
- 6:15-7:15pm Keynote Speaker: Dr. William L. Smith, University of Michigan Medical School, Ann Arbor, MI "*Allosteric Regulation of Cyclooxygenases by Fatty Acids and Nonsteroidal Anti-inflammatory Drugs*": Pavilion
- 7:15-8:15pm Dinner
- 8:30-11:00pm Entertainment: Lobby of High Hampton
- 11:00pm-Late Social Time: Wade Hampton Room

Friday, November 13, 2009

- 7:00-8:00am Breakfast
- 8:00-9:45am Session III: Lipid Signaling (focus on sphingolipids): Pavilion
Chair: Dr. Hiroko Hama, Medical University of South Carolina, Charleston, SC
Co-chair, Dr.Kazuaki Takabe, Virginia Commonwealth University,

Richmond, VA

- 8:00-8:15am "Sphingosine kinase 2 and S1P in the nucleus regulate histone acetylation by inhibition of histone deacetylases", Nitai C. Hait, Virginia Commonwealth University School of Medicine, Richmond, VA
- 8:15-8:30am "Discovery and profile of a sphingosine 1-phosphate (S1P) receptor antagonist pro-drug", Perry C. Kennedy, University of Virginia, Charlottesville, VA
- 8:30-8:45am "Sphingosine-1-phosphate phosphohydrolase 1 at the intersection of ER stress-induced autophagy and apoptosis", Sandrine Lépine, Virginia Commonwealth University School of Medicine, Richmond, VA
- 8:45-9:00am "A new ceramide binding site on atypical PKC ζ that regulates junction formation in epithelial cells", Guanghu Wang, Medical College of Georgia, Augusta, GA
- 9:00-9:15am "Anti-apoptotic roles of ceramide synthase 6-generated C16-ceramide via selective regulation of the ATF6/CHOP arm of ER stress response pathways", Can E. Senkal, Medical University of South Carolina, Charleston, SC
- 9:15-9:30am "Regulation of ultraviolet light-induced ceramide and programmed cell death by ceramide synthase", Thomas D. Mullen, Medical University of South Carolina, Charleston, SC
- 9:30-9:45am "Proteolytic processing within endo-lysosomes is required for maturation of lysosomal acid sphingomyelinase" Russell W. Jenkins, Medical University of South Carolina, Charleston, SC
- 9:45-10:00am Coffee Break
- 10:00-11:45am Session IV: Lipid Pathobiology: Pavilion
Chair: Dr. Ashley Cowart, Medical University of South Carolina, Charleston, SC
Co-chair: Dr. Nadia F. Lamour, Virginia Commonwealth University School of Medicine, Richmond, VA
- 10:00-10:15am "Anti-apoptotic effects of sphingosine-1 phosphate (S1P) and its analogs on alveolar endothelial and epithelial cells and role in the treatment of emphysema", Krzysztof Kamocki, Indiana University School of Medicine, Indianapolis, IN
- 10:15-10:30am "Fa2h knockout mice exhibit central nervous system disruption, providing a model of human FA2H deficiency", Kathleen A. Potter,

Medical University of South Carolina, Charleston, SC

- 10:30-10:45am "ABC transporter deletion increases PHS tolerance and tryptophan uptake in *S. cerevisiae*", Soraya Johnson, University of Iowa, Iowa City, IA
- 10:45-11:00am "Modulation of apoptotic cell clearance (efferocytosis) by ceramides", Daniela N. Petrusca, Indiana University, Indianapolis, IN
- 11:00-11:15am "Bcr-abl dependent regulation of sphingomyelin synthase 1", Tara Burns, Medical University of South Carolina, Charleston, SC
- 11:15-11:30am "Lipid-induced up-regulation of human acyl-CoA synthetase 5 sensitizes for hepatocellular apoptosis", Andrea Reinartz, Georgia Institute of Technology, Atlanta, GA
- 11:30-11:45am "Sphingosine-1-phosphate accelerates the development of functionally mature chymase-expressing human mast cells", Megan M. Price, Virginia Commonwealth University, School of Medicine, Richmond, VA
- 11:45am-12:00pm Business Meeting
- 12:00pm-1:00pm Lunch
- 1:00pm Departure