CONFERENCE PROGRAM

Monday May 1st 2017

3:00 pm – 5:00 pm	**Registration and Check-in** *Main Lobby*
6:00 pm – 7:00 pm	**Pre-dinner Reception** *Brookhaven Room (Upper Level)*
7:00 pm – 8:00 pm	**Dinner and Welcoming Remarks** Dr. Lina Obeid, Stony Brook University.
8:00 pm – 10:00 pm	**Keynote presentations**
8:00 pm – 8:30 pm	"Getting to the heart of myocardial ceramide metabolism" Dr. L. Ashley Cowart, Medical University of South Carolina, USA.
8:45 pm – 9:15 pm	"Inhibition of inflammation and cancer infiltration by SMS2 deficiency" Dr. Toshiro Okazaki, Kanazawa Medical University, Japan.

Tuesday May 2nd 2017

7:00 am – 8:15 am	**Continental Breakfast** *Coastal Ballroom*
7:30 am – 9:30 am	**Late Registration and Check-in** *Main Lobby*
	All Posters Up *Diplomatic Ballroom (Lower level)*
8:30 am – 10:30 am	**Session 1 – Regulation of Sphingolipid Metabolism** *Brookhaven Room (Upper Level)* Chair – Thorsten Hornemann, University Hospital Zurich
8:30 – 8:45 am	"Sphingolipid metabolic flow controls phosphoinositide turnover at the trans Golgi network." *Serena Capasso, IRCCS INM*
8:50 – 9:05 am	"Regulation of the sphingolipid network in response to doxorubicin." *Justin Snider, Stony Brook University*
9:10 – 9:25 am	"ORMDL3 is a negative regulator of sphingolipid levels in vivo." *Ben Clarke, NIDDK, National Institutes of Health*
9:30 – 9:45 am	"Role and regulation of sphingomyelin synthase in leukemia." *Sitapriya Moorthi, Stony Brook University*

9:50 – 10:05 am	"The glycosphingolipid metabolic switch controls neural differentiation." *Domenico Russo, Institute of Protein Biochemistry, NRC*
10:10 – 10:20 am	"A probe for live cell monitoring of acid sphingomyelinase activity." *Christoph Arenz, Humboldt Universitat zu Berlin*
10:30 am – 11:00 am	**Mid-morning break** *Coffee/Tea and snacks*
11:00 am – 12:30 pm	**Session 2 – Physiology and Pathophysiology of Sphingolipid Metabolism Part I** *Brookhaven Room (Upper Level)* Chair – Walt Holleran, UCSF
11:00 – 11:15 am	"Mouse alkaline ceramidase ACER2 is required for maintaining high plasma levels of sphingosine-1-phosphate." *Fang Li, Stony Brook University*
11:20 – 11:35 am	"The relationship between Human Influenza virus and host sphingolipids." *Kelly Drews, University of Virginia*
11:40 – 11:55 am	"Increased sphingosine 1-phosphate receptor 1 expression induces apoptosis in hematopoietic progenitors and results in lethal bone marrow failure" *Victoria Blaho, Sanford Burnham Prebys*
12:00 – 12:15 pm	"Hepatocellular dysfunction in a mouse model of acid ceramidase deficiency." *Fabian Yu, Medical College of Wisconsin/University of Toronto*
12:20 – 12:30 pm	"A Drosophila model of Photosensitive Epilepsy." *Jairaj Acharya, National Cancer Institute, NIH*
12:30 pm – 1:30 pm	**Lunch** *Coastal Ballroom and Harbor View Room*
1:30 pm – 3:30 pm	**Session 3 – Ceramide-mediated Signaling** *Brookhaven Room (Upper Level)* Chair – Yael Pewzner-Jung, Weizmann Institute of Science
1:30 – 1:45 pm	"Myristate-induced ER stress requires ceramide synthases 5/6 and generation of C14 ceramide in intestinal epithelial cells." *Songhwa Choi, Stony Brook University*
1:50 – 2:05 pm	"TGF-beta receptor signaling at primary cilia membrane is regulated by ceramide to modulate cell migration." *Salih Gencer, Uskudar University/MUSC*

2:10 – 2:25 pm	"Ceramide synthase 2-ceramide axis limits metastatic potential of ovarian cancer." *Kazayuki Kitatani, Tohoku University*
2:30 – 2:45 pm	"Decreased ceramide underlies mitochondrial dysfunction in Charcot Marie Tooth 2F." *Nicholas Schwartz, Stony Brook University*
2:50 – 3:05 pm	"Sphingolipid signals regulate hypoxia-inducible factors in macrophages and fibroblasts." *Ulrike Glaser, Memorial Sloan-Kettering/University Hospital Essen*
3:10 – 3:20 pm	"Pharmacogenetic study to understand the role of ceramide pathway in retinal diseases" *Nawajes Mandal, University of Tennessee*
3:30 pm – 5:30 pm	**Poster Session I: Odd-numbered abstracts** *Diplomatic Ballroom (Lower level)*
From 5:30 pm	**Free Evening in Town**

Wednesday May 3rd 2017

7:00 am – 8:15 am	**Continental Breakfast** *Coastal Ballroom*
8:30 am – 10:00 am	**Session 4 – Physiology and Pathophysiology of Sphingolipid Metabolism Part 2** *Brookhaven Room (Upper Level)* Chair – Charles Chalfant, Virginia Commonwealth University
8:30 – 8:45 am	"Alkaline ceramidase 1 (ACER1) protects mice from premature hair loss by maintaining the homeostatis of hair follicle stem cells." *Chih-Li Lin, Stony Brook University*
8:50 – 9:05 am	"The C1P/cPLA2-alpha interaction in wound healing." *H. Patrick MacKnight, Virginia Commonwealth University*
9:10 – 9:25 am	"The role of ceramide synthase in the pathogenicity of Cryptococcus neoformans." *Mansa Munshi, Stony Brook University*
9:30 – 9:45 am	"Endothelial Nogo-B-dependent regulation of sphingolipid biosynthesis promotes the coronary atherosclerosis lesions formation and myocardial infarction." *Yi Zhang, Cornell University*

9:50 – 10:00 am	"Differential changes in hepatic ceramide content in different models of NASH: correlation to the onset of inflammation and fibrosis." *Mariana Nikolova-Karakashian, University of Kentucky*
10:00 am – 10:30 am	**Mid-morning break** *Coffee/Tea and snacks*
10:30 am – 12:30 pm	**<u>Session 5 – Sphingosine Kinase and S1P-mediated Signaling.</u>** *Brookhaven Room (Upper Level)* Chair – Susan Pyne, University of Strathclyde
10:30 – 10:45 am	"Sphingosine kinase 1 signaling in adipogenesis: Timing is key." *Johana M. Lambert, MUSC*
10:50 – 11:05 am	"L-serine starvation leads to sphingosine kinase-1 proteolysis via 1-deoxysphinganine synthesis." *Jean-Philip Truman, Stony Brook University*
11:10 – 11:25 am	"Bioluminescence imaging of G protein-coupled receptor activation in living mice." *Mari Kono, NIDDK, National Institutes of Health*
11:30 – 11:45 am	"Crosstak between S1P and EGFR signaling pathways in human glioma cell invasiveness." *Paola Giussani, University of Milano*
11:50 – 12:05 pm	"Role of sphingosine-1-phosphate signaling in immune response to C. neoformans." *Arielle Bryan, Stony Brook University*
12:10 – 12:20 pm	"Sphingosine 1-phosphate lyase, neuronal autophagy and neurodegeneration." *Gerhild van Echten-Deckert, LIMES institute, University of Bonn*
12:30 pm – 1:30 pm	**Lunch** *Coastal Ballroom and Harbor View Room*
1:30 pm – 6:30 pm	**Free time**
6:30 pm – 8:00 pm	**Dinner** *Brookhaven Room*
8:30 pm – 10:30 pm	**Poster Session 2: Even-numbered abstracts** *Diplomatic Ballroom (Lower level)*

Thursday May 4th 2017

7:00 am – 8:15 am	**Continental Breakfast** *Coastal Ballroom*
8:30 am – 10:00 am	**Session 6 – Sphingolipids in Acute Myeloid Leukemia (AML)** *Brookhaven Room (Upper Level)* Chair – Richard Kolesnick, Memorial Sloan-Kettering
8:30 – 8:40 am	"Overview on the roles, functions and therapeutic implications of sphingolipids in AML" *Mark Kester, University of Virginia*
8:40 – 8:55 am	"Ceramide-centric therapeutics potentiate induction of mitophagy in AML." *Samy Morad, East Carolina University* **Session 6 (continued)**
9:00 – 9:15 am	"Acid ceramidase is upregulated in AML and represents a novel therapeutic target." *Su-Fern Tan, University of Virginia*
9:20 – 9:35 am	"Epigenetic regulation of sphingolipid metabolism in acute myeloid leukemia." *Brian Barth, University of New Hampshire*
9:40 – 9:55 am	"Acid ceramidase inhibition: A targeted therapy for acute myeloid leukemia." *Jennifer Pearson, University of Virginia*
10:00 am – 10:30 am	**Mid-morning break** *Coffee/Tea and snacks*
10:30 am – 12:30 pm	**Session 7 – Biophysical and Structural Properties of Sphingolipids and Sphingolipid-Metabolizing Enzymes** *Brookhaven Room (Upper Level)* Chair – Leah Siskind, University of Louisville
10:30 – 10:45 am	"Novel insights into allosteric activation of neutral sphingomyelinase-2 by anionic phospholipids." *Prajna Shanbhogue, Stony Brook University*
10:50 – 11:05 am	"Pathological levels of glucosylceramide change the biophysical properties of artificial and cell membranes." *Liana Silva, Universidade de Lisboa*
11:10 – 11:25 am	"Regulation of tumor suppressor PP2A and its inhibitor SET oncoprotein interaction by sphingolipids." *Ryan De Palma, MUSC*

11:30 – 11:45 am	"Ceramide-1-phosphate: characterizing a fluorescent lipid and discovering new binding proteins." *Carolyn Shirey, University of Notre Dame.*
11:50 – 12:05 pm	"Crystal structure of acid sphingomyelinase." *Alexei Gorelik, McGill University*
12:10 – 12:20 pm	"Pharmacological chaperone search for lysosomal storage diseases." *Kutlu Uglen, Bogazici University*
12:30 pm – 1:30 pm	**Lunch** *Coastal Ballroom and Harbor View Room*
1:30 pm – 3:00 pm	**Session 8 – Cancer Therapeutics** *Brookhaven Room (Upper Level)* Chair – Yasayuki Igarashi, Hokkaido University
1:30 – 1:45 pm	"Sphingolipid pathway dysregulation in glioblastoma multiforme." *Salvatore Molino, Medical College of Wisconsin*
1:50 – 2:05 pm	"Potential of ceramide nanoliposomes as necroptosis-inducing chemotherapeutic reagents in ovarian cancer." *Xuewei Zhang, Tohoku University*
2:10 – 2:25 pm	"High single doses radiotherapy selectively targets/attacks tumor stem cells via vascular dysfunction and DNA damage repair inhibition mechanisms." *Christy Li, Memorial Sloan-Kettering*
2:30 – 2:45 pm	"Ceramide nanoliposome as a potential therapeutic option for prostate cancer, and head and neck squamous cell carcinoma." *Jeremy Shaw & Pedro Costa-Pinheiro, University of Virginia*
2:50 – 3:00 pm	"Expression levels of bioactive sphingolipid genes in newly diagnosed and drug-resistant chronic myeloid leukemia patients and their impact on the clinical progress." *Yusuf Baran, Izmir Institute of Technology*
3:00 pm – 3:15 pm	**Group Photo** *Place to be announced*
3:15 pm – 5:00 pm	**Free Time**
5:00 pm - 6:00 pm	**Transportation to Gala Reception** *Main Lobby*
6:00 pm – 10:00 pm	**Pre-dinner reception and closing remarks** **Gala dinner and award presentations** *Lombardi's on the Sound, Port Jefferson, NY*
10:00 pm – 11:00 pm	**Transportation back to Danfords**

Friday May 5th 2017

7:00 am – 8:15 am **Continental Breakfast**
Coastal Ballroom

DEPARTURE