8th International Meeting on Tetraspanins & Membrane Scaffolds
June 17-20, 2015
Vanderbilt University, Nashville, TN

Organizers: Jennifer Gillette (University of New Mexico HSC), Andries Zijlstra (Vanderbilt University), Xin Zhang (University of Oklahoma HSC), Shoshana Levy (Stanford University)

Wednesday, June 17th
2:00 – 9:00 pm Registration
5:30 – 6:30 pm Dinner at “The Commons”
7:00 pm Welcome Reception at “Stambaugh House” on the Peabody Campus

Thursday, June 18th
7:30 – 8:30 am Breakfast at “The Commons”

SESSION 1
8:45 am – 11:40 pm Membrane Scaffolds & Host Pathogens
Discussion Leader: Annemiek van Spriel

Light Hall room 214

8:45 – 9:15 am María Yáñez-Mó, Servicio de Immunología, Hospital de la Princesa, Hospital Santa Critina, Instituto de Investigación Sanitaria La Princesa, Madrid, Spain
“CD81 modulates HIV-1 reverse transcription by controlling SAMHD1 activity”

9:15 – 9:35 am Daniel Hochdorfer*, Institute of Virology
University Medical Center, Ulm, Germany
“Tetraspanin CD151 promotes initial events of human cytomegalovirus infection”
*NIH R13 Travel Award Recipient

9:35 – 10:05 am Jenny Tam, Departments of Medicine, Infectious Disease
Massachusetts General Hospital, Boston, USA
“Tetraspanin CD82 regulates Candida albicans induced LC3-associated phagocytosis (LAP) in macrophages”

10:05 – 10:25 am Coffee Break/Discussion Time

10:25 – 10:55 am Markus Thali, Department of Microbiology & Molecular Genetics, College of Medicine and CALS, University of Vermont, USA
“Fusion regulation at the virological presynapse”

10:55 – 11:15 am Jenny Ventress, Department of Infection and Immunity,
University of Sheffield Medical School, UK
“Development of tetraspanin-based therapies for Staphylococcus aureus infection”

11:15 – 11:45 am Thomas Gallagher, Department of Microbiology and Immunology,
Loyola University Medical Center,
“Roles for transmembrane proteases and tetraspanin-enriched microdomains in enveloped virus entry”

12:00 – 1:00pm Lunch at “The Commons”
SESSION 2
1:30 – 5:10 pm Membrane Scaffolds & Development
   Discussion Leader: Chris Stipp
   Light Hall room 214

1:30 – 2:10 pm Eric Rubinstein, Inserm, U935, Institut André Lwoff,
   Université Paris-Sud, Villejuif, France
   “TspanC8 tetraspanins differentially regulate the cleavage of ADAM10 substrates, Notch
   activation and ADAM10 membrane compartmentalization”

2:10 – 2:30 pm Isabel Salas*, VIB Center for Biology of Disease & Center of Human Genetics and
   Leuven Institute for Neurodegenerative Diseases, KULeuven, Leuven,
   Gasthuisberg O&N, Belgium
   “Role of Tspan6 in synaptic function”
   *NIH R13 Travel Award Recipient

2:30 – 3:00 pm Harald Junge, Department of Molecular, Cellular, & Developmental Biology,
   University of Colorado, Boulder, CO, USA
   “TSPAN12 in beta-catenin signaling and retinal angiogenesis”

3:00 – 3:40 pm Coffee Break/Discussion Time
   Light Hall Lobby

3:40 – 4:10 am Michael Tomlinson, School of Biosciences,
   University of Birmingham, Birmingham, UK
   “Tspan9 and Tspan18 are required for normal platelet function”

4:10 – 4:40 am Cindy Miranti, Laboratory of Integrin Signaling and Tumorigenesis,
   Van Andel Institute, Grand Rapids, MI, USA
   “Defective Osteoclasts in CD82 Null Mice”

4:40 – 5:10 pm Xin Zhang, Department of Physiology and Stephenson Cancer Center
   University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA
   “CD82 and Vascular Permeability”

5:30 – 6:30 pm Dinner at “The Commons” on the Peabody Campus

7:00 – 9:00 pm Posters and Social Hour in “Stambaugh House”
Friday, June 19th
7:30 – 8:30 am  Breakfast at “The Commons"

SESSION 3
8:45 am – 12:30 pm  Membrane Scaffolds & Cancer
   Discussion Leader: Xin Zhang
   Note Change in location:  Light Hall room 202

8:45 – 9:25 am  Martin Hemler, Dana-Farber Cancer Institute,
   Harvard University, Boston, MA, USA
   “New insights into CD151 contributions to anti-cancer drug resistance”

9:25 – 9:45 am  Charlotte Maria (Lotte) de Winde*, Department of Tumor Immunology,
   Radboud Institute for Molecular Life Sciences, Radboud University Medical
   Center, Nijmegen, The Netherlands.
   “Protection against development of B cell lymphoma by CD37”
   *NIH R13 Travel Award Recipient

9:45 – 10:10 pm  Coffee Break/Discussion Time
   Note Change in location:  Light Hall room 214

10:10 – 10:40 am  Chris Stipp, Department of Biology and Department of Molecular Physiology &
   Biophysics, Holden Comprehensive Cancer Center, University of Iowa, Iowa City,
   IA, USA
   “CD151 Promotes α3β1 Integrin-Dependent Organization of Carcinoma Cell Junctions
   and Restrains Collective Cell Invasion”

10:40 – 11:00 am  Mauricio Medrano*, Princess Margaret Cancer Center, University Health Network,
   Department of Medical Biophysics, University of Toronto, Toronto, Canada
   “Interrogation of functional cell surface markers identifies CD151 dependency in serous
   ovarian cancer”
   *Company of Biologists Conference Grant Travel Award Recipient

11:00 – 11:20 am  Jasmeet Reyat*, School of Biosciences, College of Life and Environmental Sciences &
   School of Clinical and Experimental Medicine, College of Medical and Dental
   Sciences, University of Birmingham, Birmingham, UK.
   “ADAM10-dependent shedding of vascular endothelial (VE)-cadherin regulates
   lymphocyte transmigration in vitro”
   * Travel award??

11:20 – 11:40 am  Christina Termini*, Ph.D. Student, Department of Pathology, University of New Mexico
   Health Sciences Center, Albuquerque, NM, USA
   “CD82 regulates the spatial organization of the α4 integrin and the temporal dynamics
   PKCα signaling”
   *New Mexico Spatial & Temporal Modeling Center Travel Award Recipient

11:40 – 12:30 pm  Business meeting

12:30 – 1:30 pm  Lunch at “The Commons” on Peabody Campus
SESSION 4
2:00 – 3:30 pm  **Tetraspanins & Translational Science**
   Discussion Leader: Jennifer Gillette  
   *Light Hall room 214*

2:00 – 2:30 pm  **Natarajan Muthusamy**, Department of Internal Medicine, The Ohio State University, Columbus, OH, USA
   “Beyond Scaffolding: Tetraspanins as therapeutic targets in Leukemia”

2:30 – 3:00 pm  **Shanna Arnold**, Department of Pathology, Microbiology, and Immunology, Vanderbilt University, Nashville, TN, USA
   “Analysis of shed ALCAM, a tetraspanin-associated cell adhesion molecule, as a prognostic marker in renal cancer”

3:00 – 3:30 pm  **Peter Monk**, Departments of Infection and Immunity and Molecular Biology and Biotechnology, The University of Sheffield, UK.
   “Tetraspanins and pathogenic bacteria: ‘we shall fight on the landing grounds”

3:30 pm  **Group Photo**  
   *Outside of Light Hall*

3:50 – 4:20 pm  **Coffee Break/Discussion Time**  
   *Light Hall Lobby*

SESSION 5
4:20 – 6:00 pm  **Membrane Scaffolds & Exosomes**
   Discussion Leader: Shoshana Levy  
   *Light Hall room 214*

4:20 – 4:50 pm  **Bob Coffey**, Ingram Professor of Cancer Research
   Vanderbilt University, Nashville, TN, USA
   “A New Mode of EGF Receptor Signaling via Exosomes”

4:50 – 5:10 pm  **Lian Willets***, Department of Oncology
   University of Alberta, Edmonton, AB, Canada.
   “Development of an extracellular vesicle micro-flow cytometry assay for prostate cancer prognosis”
   *Company of Biologists Conference Grant Travel Award Recipient*

5:10 – 5:30 pm  **Bong Hwan Sung**, Department of Cancer Biology, Vanderbilt University Medical Center, Nashville, TN, USA
   “Directional cancer cell migration through tissues is regulated by exosome secretion”

5:30 – 6:00 pm  **Margot Zoller**, Tumor Cell Biology, University Hospital of Surgery, Heidelberg, Germany
   “Approaching the functionality of CIC markers in pancreatic and colorectal cancer via exosomes”

7:00 pm  Dinner & Musical Entertainment at “The Coffee Shop” on Music Row

9:00 pm  Music & Downtown Nashville Experience
Saturday, June 20th
7:30 – 8:30 am Breakfast at “Light Hall” 

SESSION 6
9:00 – 12:30 pm Membrane Scaffolds & Immunity
Discussion Leader: Peter Monk

9:00 – 9:40 am Annemiek Van Spriel, Department of Tumor Immunology, Radboud Institute for Molecular Life Sciences, Radboud University Medical Center, Nijmegen, The Netherlands
“The tetraspanin web revisited by super-resolution microscopy”

9:40 – 10:10 am Siew Cheng Wong, Singapore Immunology Network (SIgN), ASTAR, Singapore
“Involvement of tetraspanins in multinucleated giant cells formation by human blood monocyte subsets”

10:10 – 10:40 am Shoshanna Levy, Department of Medicine, Division of Oncology, Stanford University, Medical Center, Stanford, CA, USA
“Tumor growth and metastasis is reduced in CD81-deficient mice – role of the immune system”

10:40 – 11:10 am Coffee Break/Discussion Time

11:20 – 11:30 am Intro to European Meeting: Peter Monk

11:30 – 12:00 pm Mark Wright, Department of Immunology, Monash University, Melbourne, VIC, Australia
“Tetraspanins are key components of the leucocyte adhesion cascade”

12:00 – 12:20 pm Jennifer Gillette, Department of Pathology, University of New Mexico Health Sciences Center, Albuquerque, NM, USA
“Regulation of hematopoietic stem cell fitness by the tetraspanin CD82”

12:30 pm Farewell / Box Lunch To Go