

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 Sriel

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 $\alpha3\beta1$ 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 $\alpha4$ integrin and the temporal dynamics
PKC α 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”
- 7:00pm 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”

Light Hall Lobby

SESSION 6

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

Light Hall room 214

- 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**