



RETREAT PROGRAM

Cell, Developmental and Cancer Biology
OHSU Center for Spatial Systems Biomedicine
Joint Retreat
Skamania Lodge: Stevenson, WA
July 28-29, 2014

Monday, July 28

@ Cascade Locks Ballroom A

7:15-8:00 Breakfast Buffet, Event Registration outside of Cascade Ballroom A

Retreat Program Commences

8:00-8:20 Introduction Joe W. Gray & Lisa M. Coussens

I. Understanding regulatory processes in normal and diseased states Moderator: Cathy Galbraith

8:20-8:35 Tissues-specific regulation of macrophage function in cancer Lisa M. Coussens

8:35-8:50 Postpartum mammary gland and liver involution: need for better imaging, immune cell phenotyping, 3D culture modeling and gene expression analyses Pepper Schedin

8:50-9:05 Visualization of Oncogenic Signaling Architectures with Biological Nanoscopies Xiaolin Nan

9:05-9:20 Hedgehog signaling in tissue maintenance, regeneration and disease Kunyoo Shin

9:25-9:40 Interrogating molecular ultrastructure James Chen

9:40-9:55 Membrane proteins: where do they go, how do they get there and who helps them in their travels and function? Caroline Enns

9:55-10:10 Virus-Host interactions of AAV vectors revealed by Electron Microscopy Michael Chapman

10:10-10:25 BREAK

10:25-11:25 **Keynote Presentation: Modeling tumorigenesis and drug responses in 3D cultures and mouse models** Joan S. Brugge

11:25-1:25 LUNCH (~~Discussion-Collaboration-Outdoor Activity~~)-Boxed lunch @ Cascade Locks Ballroom B

II. Omic considerations for the study of genetic disorders Moderator: Jim Galbraith

1:25-1:40 Omic assessment of intrinsic and extrinsic heterogeneity Joe Gray

1:40-1:55 Tumor cell differentiation state heterogeneity in therapeutic response Rosie Sears

2:00-2:15	Single cell genomics at OHSU- The Future of Precision Medicine	Lincoln Shenje
2:15-2:30	Identification of human beta-cell heterogeneity	Markus Grompe
2:30-2:45	Genomics	Paul Spellman
2:45-3:00	Genome stability is regulated by cis-acting elements	Matt Thayer
3:00-3:20	BREAK	
3:20-3:35	Integrated Omic Strategies for Personalized Targeted Therapy in Hematologic Malignancies	Jeff Tyner
3:35-3:50	Single Molecule, Single Cell Technologies for Imaging Heterogeneous Sub-cellular and Cellular Signaling Functions	Tania Vu
3:50-4:05	Inflammatory modulation of normal and neoplastic hematopoiesis	Evan Lind
4:05-4:20	Inferring genomic predictors of cancer phenotypes from high throughput cancer genomics data	Adam Margolin
4:20-4:50	Intel - Big questions for big computing	Ganapati Srinivasa
4:50-5:25	ePoster presentation Marilynn Chow Lester Lampert Hillary McGraw Trevor Levin Nick Smith Madeline Midgett Brian Ruffell	Moderator: Missy Wong
5:25-6:25	POSTER SESSION @ Cascade Locks Ballroom B	
6:30-8:00	BANQUET DINNER @ Forest Fire Pit (Outdoors)	
8:00-9:00	Bits, Bytes and Booze Mixer @ Forest Fire Pit	

Tuesday, July 29

@ Cascade Locks Ballroom A

7:15-8:00 Breakfast Buffet outside of Cascade Ballroom A

III. Studies of complex systems (genomics, imaging, computational biology, chemistry) Moderator: Jeff Tyner

8:00-8:15 Invadopodia and tumor progression Sara Courtneidge

8:15-8:30	Regulation of active cycling and quiescent intestinal stem cell populations	Missy Wong
8:30-8:45	Multiscale and multimodal EM investigation of signaling architecture	Danielle Jorgens and Anke Mulder
8:45-9:00	<i>In vivo</i> analysis of axonal transport	Alex Nechiporuk
9:00-9:15	Fluorogenic probes for profiling mycobacterial enzymes	Kimberly Beatty
9:15-9:30	BREAK	
9:30-9:45	Novel mechanisms of ephrin reverse signaling	Phillip Copenhaver
9:45-10:00	Connecting the dots - functionally linking molecular and cellular movements	Jim and Cathy Galbraith
10:00-10:15	Mechanisms of CD8+ T cell trafficking to inflamed tissues	Jeffrey Nolz
10:15-10:30	Structure Leads to Function in the Sensory Hair Bundle	Peter Barr-Gillespie
10:30-10:45	Cutaneous Lymphatics and Melanoma Immunity	Amanda Lund
10:45-11:00	Role of hemodynamics on cardiac development: A multiscale view of congenital heart disease	Sandra Rugonyi
11:00-12:00	LUNCH-Boxed lunch @ Cascade Locks Ballroom B	
	<i>Anyone not participating in the afternoon sessions is free to depart</i>	
12:00-5:00	OCSSB EAB Meeting @ Cascade Locks Ballroom A specific schedule to follow	
12:00-3:00	CDCB Faculty Session@ Cascade Locks Ballroom B specific schedule to follow	