Sunday, April 23

3:00 pm	Check-in
6:00 pm	Reception (Lobby)
7:00 pm	Dinner
8:00 pm	Welcome and Opening Remarks (Organizers)
8:05 pm	Keynote Lecture: Kevan M. Shokat, University of California, San Francisco Lessons from drugging traditional targets in non-traditional ways
9:05 pm	Refreshments available at Bob's Pub

NOTE:

Meals are in the **Dining Room** Talks are in the **Seminar Room** Posters are in the **Lobby**



Monday, April 24

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 1: Intracellular Labeling I Chair: Zev Gartner
9:00 am	Matthew B. Francis, University of California, Berkeley New chemical tools for site-specific protein labeling
9:25 am	Jennifer Prescher, University of California, Irvine Spying on cellular communication
9:50 am	Alice Ting, Stanford University Directed evolution of molecular probes for cell biology and neuroscience
10:15 am	Break
10:45 am	Session 2: Intracellular Labeling II Chair: Pamela England
10:45 am	Kai Johnsson, École Polytechnique Fédérale de Lausanne Expanding protein function through synthetic chemistry
11:10 am	Carsten Schultz, European Molecular Biology Laboratory Chemical tools for studying signaling networks
11:35 am	Luke D. Lavis, Janelia Research Campus/HHMI Designing brighter dyes for advanced microscopy in cells and beyond
12:00 pm	Jordan Meier, National Cancer Institute Metabolic signal transduction via writers and reactivity
12:15 pm	Lunch (service ends at 1pm)
2:00 pm	Session 3: Intracellular Labeling III Chair: Evan Miller
2:00 pm	Matthew Bogyo , Stanford University Chemical probes of protease activity: Applications for imaging and studies of enzyme function
2:25 pm	Xiaokun Shu , University of California, San Francisco Visualize spatiotemporal dynamics of cell signaling in vivo with rationally designed fluorogenic reporters
2:50 pm	Martin Schnermann, National Cancer Institute, NIH Cyanine-based near-IR uncaging chemistry: Discovery and applications



3:05 pm	Break
3:30 pm	Session 4: Intracellular Labeling IV Chair: Dirk Trauner
3:30 pm	Ronald Raines , University of Wisconsin-Madison Diazo compounds: Versatile tools for chemical biology
3:55 pm	Michael Cohen , Oregon Health & Science University Decoding protein ADP-ribosylation networks in cells using chemical genetic approaches
4:20 pm	Pamela MM England , University of California, San Francisco Development of chemical probes for nuclear receptors
4:45 pm	Short Break
5:00 pm	Poster Blitz! (3 mins / 3 slides each) Parker Deal, University of California, Berkeley Ariel Furst, University of California, Berkeley Fadi Jradi, Janelia Research Campus/HHMI Jorge Marchand Benmaman, University of California, Berkeley Colin O'Banion, UNC Chapel Hill Saba Parvez, Cornell University Jinyoung Seo, Seoul National University Zhenhua Shen, Louisiana State University Angela Steinauer, Yale University Qiuliyang Yu, École Polytechnique Fédérale de Lausanne Qinsi Zheng, Janelia Research Campus/HHMI Xinqi Zhou, University of Nebraska - Lincoln
5:45 pm	Poster Reception
7:15 pm	Dinner
8:15 pm	Session 5: Molecular Modulation I Chair: Carsten Schultz
8:15 pm	Tarun Kapoor , The Rockefeller University Chemical genetics leads to new probes for eukaryotic ribosome biogenesis
8:40 pm	Zev Gartner , University of California, San Francisco Spatial rearrangement of activated EGFR is necessary for efficient activation of Ras
9:05 pm	Refreshments available at Bob's Pub



Tuesday, April 25

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 6: Molecular modulation II Chair: Luke Lavis
9:00 am	David S. Lawrence , University of North Caroline, Chapel Hill <i>A tunable, light-responsive, platform for launching bioactive agents</i>
9:25 am	Danica Fujimori , University of California, San Francisco Targeting chromatin methylation erasers using small molecules
9:50 am	Jack Taunton , University of California, San Francisco Broad-spectrum kinase profiling in live cells with lysine-targeted sulfonyl fluoride probes
10:15 am	Xin Zhou , Stanford University <i>Optical control of cell signaling by single-chain photoswitchable kinases</i>
10:30 am	Break
11:00 am	Session 7: Chemical neuroscience in vertebrates I Chair: Alice Ting
11:00 am	Linda Hsieh-Wilson , California Institute of Technology Harnessing chemistry to discover new carbohydrate-mediated signaling pathways in the brain
11:25 am	Chris Chang , University of California, Berkeley <i>Transition metal signaling in the brain and beyond</i>
11:50 am	Dirk Trauner , New York University Controlling biological pathways with synthetic switches
12:15 pm	Lunch (service ends at 1pm)
1:00 pm	Tour (optional – meet at reception)
2:15 pm	Session 8: Chemical neuroscience in vertebrates II Chair: Matthew Bogyo
2:15 pm	Evan W. Miller , University of California, Berkeley Electrophysiology, unplugged: Fluorerscent indicators to probe membrane potential
2:40 pm	Scott M. Sternson, Janelia Research Campus/HHMI Engineering ultra-potent ion channel-ligand interactions



3:05 pm	Timothy E. Holy , Washington University in St. Louis <i>Exploiting natural chemical diversity as a tool for neural circuit elucidation</i>
3:30 pm	Break
4:00 pm	Session 9: Chemical neuroscience in vertebrates III Chair: Helen Blackwell
4:00 pm	Stephen Miller , University of Massachusetts Medical School <i>Bioluminescence: from molecular-level detail to glowing mouse brains</i>
4:25 pm	James K. Chen, Stanford University Illuminating developmental biology through chemistry
4:50 pm	Group Discussion: Future of Chemical Biology
5:45 pm	Poster Reception
7:15 pm	Dinner
8:30 pm	Refreshments available at Bob's Pub



Wednesday, April 26

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 10: Invertebrate chemistry Chair: Jennifer Prescher
9:00 am	Blake Peterson , University of Kansas Discovery of new therapeutic strategies using fluorescent molecular probes
9:25 am	Frank Schroeder , Cornell University Metabolomics for C. elegans: Uncovering the "dark matter" of the chemistry of life
9:50 am	Break
10:15 am	Session 11: Chemistry of bacterial systems Chair: David S. Lawrence
10:15 am	Howard Hang , The Rockefeller University Chemical tools for exploring metabolite-protein modifications in biology
10:40 am	Helen E. Blackwell , University of Wisconsin-Madison Synthetic ligands for the interception of bacterial communication: New languages, new outcomes
11:05 am	Ming C. Hammond , University of California, Berkeley <i>Riboswitching on the light: RNA-based biosensors to illuminate bacterial signaling</i>
11:30 pm	Closing Discussion and Final Remarks
12:00 pm	Lunch and/or Departure
12:30 pm 1:30 pm 2:30 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles

