Janelia Junior Scientist Workshop on Protein Engineering March 13-16, 2016 Synapse Room

Sunday, Mar	ch 13		
5:30 pm 6:15 pm 7:30 pm 7:35 pm 8:30 pm	Reception (Lobby) Dinner (Dining Room) Welcome and Opening Remarks Plenary Talk - Misha Ahrens (Janelia) Refreshments available at Bob's Pub		
Monday, March 14			
7:30 am	Breakfast (Dining Room - service ends at 8:45am)		
9:00 am	Marissa C. Applegate, Princeton University Development of calcium indicator proteins for spike counting mode		
9:20 am	Nordine Helassa , University of Liverpool Development of fast genetically- Encoded calcium indicators for monitoring calcium flux		
9:40 am	Lauren M. Barnett, Montana State University A new way of color-coding neural activity		
10:00 am	Julien Hiblot , EPFL Development of a neuronal signal integrator based on self-labelling proteins		
10:20 am	Break (refreshments available in the Lobby)		
10:40 am	Stephan Eismann , Stanford University Genetically encoded fluorescent voltage indicators to record neural spikes in awake mice and flies		
11:00 am	Kiryl D. Piatkevich , Massachusetts Institute of Technology <i>Engineering tools for mapping brain computations</i>		
11:20 am	Jelena Platisa , John B. Pierce Laboratory <i>Membrane inserted fluorescence proteins as voltage sensors</i>		
11:40 am	Linlin Z. Fan , Harvard University All optical electrophysiology of synaptic transmission and synaptic plasticity		
12:00 pm	Discussion		
12:15 pm	Lunch (Dining Room - service ends at 1pm)		
1:00 pm	Rosetta Demo		
2:30 pm	Break (refreshments available in the Lobby)		
3:00 pm	Matthew Blain-Hartung , University of California, Davis Developing cyanobacteriochrome photosensors as optogenetic tools		
3:20 pm	Qi Liu , University of Colorado Denver Develop photoactivatable neurotoxins using Cry2/Cib dimerization system		
3:40 pm	Jiahui Wu , Weil Cornell Medicine, Cornell University Controlling synaptic function using light-regulated protein synthesis		



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4:00 pm	Sam Duwé , KU Leuven rsGreens: Expression-enhanced photochromic EGFP variants for applications in live-cell sub-diffraction imaging	
4:20 pm	Discussion	
4:35 pm	Break	
5:30 pm	Reception (Lobby)	
6:15 pm	Dinner	
7:30 pm	Plenary Talk: Darcy Peterka	
8:30 pm	Refreshments available at Bob's Pub	
Tuesday, Ma	rch 15	
7:30 am	Breakfast (Dining Room - service ends at 8:45am)	
9:00 am	Jiayi Dou, University of Washington Computational design of ligand binding proteins	
9:20 am	Praopim Limsakul , University of California, San Diego Directed evolution to engineer FRET biosensors for single cancer cell surface imaging	
9:40 am	Brian L. Ross , University of California San Diego <i>FLARE: Pushing the limits of fluorescence biosensing</i>	
10:00 am	Sine Yaganoglu, ETH Zurich Seeing forces: A biosensor for Piezo1	
10:20 am	Break (refreshments available in the Lobby)	
10:40 am	Gary Mo , University of California, San Diego Fluorescent biosensors for visualizing livecell biochemical activity at superresolution	
11:00 am	Tommaso Patriarchi , University of California, Davis Nanobody-based universal scaffold for sensor engineering to probe the state of endogenous proteins	
11:20 am	Jan-Erik Hoffmann, EMBL Non-canonical amino acids for live cell labeling and fluorescent sensors	
11:40 am	Karen S. Sarkisyan , Centre for Genomic Regulation (CRG) <i>Exploration of protein fitness landscapes as an approach to simplify development of molecular tools</i>	
12:00 pm	Discussion	
12:15 pm	Lunch (Dining Room - service ends at 1pm)	
1:00 pm	Tour (optional – meet at reception)	
2:00 pm	Laurens Lindenburg , University of Cambridge High throughput directed evolution of red fluorescent proteins based on in vitro transcription and translation	



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2:20 pm	Erik A. Rodriguez , University of California, San Diego A far-red fluorescent protein evolved from a cyanobacterial phycobiliprotein
2:40 pm	Daria M. Shcherbakova , Albert Einstein College of Medicine Bright monomeric near-infrared fluorescent proteins
3:00 pm	Break (refreshments available in the Lobby)
3:20 pm	Nina G. Bozhanova , Russian Academy of Sciences Dye in the box: in silico guided design of novel fluorescence labeling system
3:40 pm	Kristina E. Kitko , Vanderbilt University Targeting synaptic vesicle proteins for single molecule imaging with monovalent quantum-dot aptamer conjugates
4:00 pm	Discussion
5:00 pm	Poster Reception (Lobby)
6:30 pm	Dinner
7:30 pm	Plenary Talk: Doug Kim (Janelia)
8:30 pm	Refreshments available at Bob's
Wednesday	, March 16
Wednesday 7:30 am	Breakfast (Dining Room - service ends at 8:45am)
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Closing Reception and Dinner at Bob's (Quiet Room)

Thursday, March 17

Departure / Breakfast available in Bob's Pub

8:00 am	First Shuttle to Dulles
9:00 am	Second Shuttle to Dulles
10:00 am	Last Shuttle to dulles



6:30 pm