HMS Department of Genetics 2019 Retreat
The Broad Institute

Monday, February 25

8:30 – 8:50 Breakfast

8:50 – 9:00 Welcome: Cliff Tabin

9:00 – 10:35 Session I: Auditorium

9:00 – 9:25 Keith Blackwell, *Mechanisms that mediate lifespan extension*

9:25 – 9:50 Connie Cepko, *Gene therapy to prolong vision*

9:50 – 10:10 **Featured Speaker: Olga Viktorovskaya, Winston Lab, Control of gene expression and chromatin organization by transcription elongation factors***

10:10 – 10:35 Oliver Pourquie, *Recapitulating human spine development in vitro*

10:35 Break

11:00 – 12:35 Session II: Auditorium

11:00 – 11:25 Monica Coiaia-wco, *Germline exposure to our chemical landscape: assessing effects and mechanisms of function in C. elegans*

11:25 - 11:50 Bob Kingston, *Chromatin compaction and phase separation as epigenetic mechanisms in mammalian development*

11:50 – 12:10 **Featured Speaker: Janek Suski, Sicinski Lab, Studying the function of Cdc7 through a genetic degron approach***

12:10 – 12:35 Carla Kim, *Organoid modeling of lung disease and lung cancer*

12:35 Box Lunch

1:15 – 2:00 **Tales from Job Market: Panel Discussion: Michael Schlambach, Sr. Director, Target Discovery at KSQ Therapeutics; Lauren Orefice, Assistant Professor, Dept. of Molecular Biology, MGH, Dept. of Genetics HMS; Dan Mandell, PhD Co-founder and CEO, GRO Biosciences***

2:15 – 3:50 Session III: Auditorium

2:15 – 2:40 Deb Hung, *Drug resistance meets virulence: the ultimate convergence*

2:40 – 3:05 Matt Harris, *Lurking just below the surface: latent potential for limb skeletal patterning and evolution*

3:05 – 3:25 **Featured Speaker: Blake Tye, Churchman Lab, A risk-reward tradeoff of high ribosome production in proliferating cells***

3:25 – 3:50 Steve Elledge, *Spying on the immune system*

4:00 – 5:00 Poster Sessions and Reception

5:00 – 7:30 Champions in Kendall Square
50 Broadway, Cambridge, MA 02142

Tuesday, February 26

8:30 – 9:00 Breakfast

9:00 – 10:35 Session IV: Auditorium

9:00 – 9:25 Martha Bulyk, *Transcription factors, cis-regulatory elements, and their interactions*


9:50 – 10:10 **Featured Speaker: David Colognori, Lee Lab, Xist deletional analysis reveals an interdependency between Xist RNA and Polycomb complexes for spreading along the inactive X***

10:10 – 10:35 Susan Dymecki, *Decoding the Brain Serotonergic Neuronal System*

10:35 Break

11:00 – 12:35 Session V: Auditorium

11:00 – 11:25 Max Heiman, *Dismantling the nervous system, one connection at a time*

11:25 – 11:50 Lauren Orefice, *Altered touch processing in autism spectrum disorders: mechanisms and emerging therapeutic approaches*

11:50 – 12:10 **Featured Speaker: Arun Sharma, Seidman Lab, Modeling Congenital Heart Disease-Associated Variants in GATA6 Using CRISPR/Cas9 Genome Editing and Human iPSC-Cardiomyocytes***

12:10 – 12:35 Yi Zhang, *Mechanism and function of DNA methylation-independent genomic imprinting*

12:35 Box Lunch

1:15 – 2:00 **Stacy Blake-Beard, Simmons College, Implicit Bias Deloitte Ellen Gabriel Professor of Women and Leadership, and Sr. Faculty Affiliate, Center for Gender in Organizations***

2:15 – 3:50 Session VI: Auditorium

2:15 – 2:40 Eric Greer, *A New Epigenetic Model Organism: Dictyostelium and the Evolution of Multicellularity*

2:40 – 3:05 Norbert Perrimon, *Something about flies*

3:05 – 3:25 **Featured Speaker: Reza Kahlor, Church Lab, Developmental lineage mapping by genomic barcoding in the mouse***

3:25 – 3:50 Scott Kennedy, *Biomolecular Condensates in Epigenetic Inheritance and Genome Defense*

3:50 – 4:10

4:00 – 5:00 Poster Sessions and Ice Cream Social