Program

Tuesday, July 21

5:30-7:00	Registration	**HUB Auditorium Lobby**
7:00-7:15	Welcoming Remarks **Song Tan** and **Frank Pugh** (The Pennsylvania State University)	
7:15-8:15	*"Chromatin Dynamics of Histone H2A.Z and CENP-A at Yeast Promoters and Centromeres"* **Carl Wu** (Howard Hughes Medical Institute, Janelia Research Campus)	1
8:15-9:30	Welcome Reception	**Art Alley**

Wednesday, July 22

7:30-9:30	**Registration Check-In**	**Heritage Hall**
Session I: Chromatin Structure & Mechanism **Chair: Lu Bai** (The Pennsylvania State University)		**HUB Auditorium**
8:30-9:05	"*A Functional and Structural Dissection of the Chromatin Remodeling Enzyme ISWI"* **Felix Müeller-Planitz** (Ludwig-Maximilians-Universität München)	2
9:05-9:40	*"Histone Octamer Distortion Promotes ATP-Driven Nucleosome Sliding"* **Geeta Narlikar** (University of California, San Francisco)	3
9:40-10:00	*"Domain-Domain Communication within the Chd1 Remodeler Directs Nucleosome Sliding"* **Greg Bowman** (Johns Hopkins University)	21
10:00-10:20	*"Crystal Structure of the PRC1 E3-E2 Ubiquitylation Module Bound to the Nucleosome"* **Robert McGinty** (The Pennsylvania State University)	22
10:20-10:50	Coffee Break	**Heritage Hall**
10:50-11:25	*"Mediator Kinases and Transcription Regulation"* **Dylan Taatjes** (University of Colorado, Boulder)	4
11:25-12:00	*"Structural Basis for Histone H2B Deubiquitination by the SAGA DUB Module"* **Cynthia Wolberger** (Johns Hopkins University School of Medicine)	5
12:00-2:00	- **Faculty:** Lunch Break - **Young Scientist:** (post-doc & younger) Meet the Speaker Luncheon	**On Your Own** **Heritage Hall**
Session II: Development & Networks **Chair: Stirling Churchman** (Harvard Medical School)		**HUB Auditorium**
2:00-2:35	*"Repressed Enhancers During Drosophila Pattern Formation are Poised for Silencing"* **Julia Zeitlinger** (Stowers Institute for Medical Research)	6
2:35-3:10	*"Genome Regulation During Developmental Transitions"* **Eileen Furlong** (EMBL Heidelberg)	7
3:10-3:30	*"Characterizing Context-Dependent Transcription Factor Activity During Cellular Programming"* **Shaun Mahony** (The Pennsylvania State University)	23
3:30-3:50	*"Cracking the C/EBPb Code in Liver and Adipose"* **David Steger** (University of Pennsylvania)	24
3:50-4:20	Coffee Break	**Heritage Hall**

4:20-4:55	*"Overcoming Chromatin Barriers to Cell Programming"* **Kenneth Zaret** (Perelman School of Medicine at the University of Pennsylvania)	8
4:55-5:30	*"C2H2 Zinc Finger Proteins and the Regulation of the Human Genome"* **Tim Hughes** (University of Toronto)	9
5:30-7:30	Program/Break Dinner	**On Your Own**
7:30-9:30	Reception and Poster Session I (odd numbered posters will present)	**Alumni Hall**

Thursday, July 23

Session III: Nuclear Organization **Chair: Feng Yue** (Penn State Hershey)		**HUB Auditorium**
8:30-9:05	*"The Role of Architectural Proteins in the 3D Organization of the Genome"* **Victor Corces** *(Emory University)*	10
9:05-9:40	*"3D Genome organization and Gene Transcription Regulation in Human Cells"* **Yijun Ruan** (The Jackson Laboratory for Genomic Medicine)	11
9:40-10:00	*"Inter-Allelic Gene Regulation in Budding Yeast"* **Lu Bai** (The Pennsylvania State University)	25
10:00-10:20	*"Single Molecule Imaging of p53's Dynamic Interaction with Chromatin"* **Robert Coleman** (Albert Einstein College of Medicine)	26
10:20-10:50	Coffee Break	**Alumni Hall**
10:50-11:25	*"Mechanisms of Epigenetic Transcriptional Memory"* **Jason Brickner** (Northwestern University)	12
11:25-12:00	*"CENP-A Nucleosomes: Marking Centromere Location for the Long Haul"* **Ben Black** (Perelman School of Medicine at the University of Pennsylvania)	13
12:00-2:00	Lunch Break	**On Your Own**

2:00-5:30 Concurrent Oral Platform Presentation

Session A: **Chair: David Steger** (University of Pennsylvania)		**HUB Auditorium**
2:00-2:20	*"Sex Comb on Midleg (Scm) is a Functional Link Between PcG Repressive Complexes in Drosophila"* **Hyuckjoon Kang** (Harvard Medical School)	44
2:00-2:40	*"AUTS2 Confers Gene Activation to Polycomb Group Proteins in the CNS"* **Zhonghua Gao** (NYU School of Medicine)	38
2:40-3:00	*"Distinct Cellular Assembly Architecture of Polycom Complexes on Chromatin Revealed by Single-Molecule Chromatin Immunеprecipitation Imaging"* **Xiaojun Ren** (University of Colorado, Denver)	43
3:00-3:20	*"Understanding the Mechanisms of Human Transcription Initiation Using Single-Molecule Fluorescence Colocalization"* **Abigail Horn** (University of Colorado, Boulder)	39
Session C: Heritage Hall **Chair: Robert Coleman** (Albert Einstein College of Medicine)		
2:00-2:20	*"Mechanistic Characterization of How Spt4/5 Alters RNAPII Arrest with in the Nucleosome"* **Brooks Crickard** (The Pennsylvania State University)	34

2:00-2:40	*"Molecular Mechanism of Transcriptional Fidelity Control and DNA Modifications Recognition by RNA Polymerase II"* **Dong Wang** (University of California, San Diego)	31
2:40-3:00	*"Nature's Imitation Game: Decipher the Combinatorial CTD Code for Eukaryotic Transcription"* **Yan Jessie Zhang** (University of Texas, Austin)	48
3:00-3:20	*"Interaction of Cockayne Syndrome Proten B (CSB) and CTCF in the Relief of Oxidative Stress"* **Hua-Ying Fan** (University of Pennsylvania)	32
3:20-3:50	Coffee Break	**Alumni Hall**
Session B: HUB Auditorium **Chair: Zhonghua Gao** (NYU School of Medicine)		
3:50-4:10	*"Histone H3(K9) Dimethylation as a Hallmark of Epigenetic and Transcriptional Changes Associated with Normal Myeloid Differentiation and Leukemia"* **Sergei Grigoryev** (Penn State Hershey College of Medicine)	42
4:10-4:30	*"Extranucleosomal DNA Enhances the Activity of the LSD1/CoREST Histone Demethylase Complex"* **Sang-Ah Kim** (The Pennsylvania State University)	37
4:30-4:50	*"Mechanistic Insight into the Role of the Paf1 Complex in Histone Modification"* **Branden Van Oss** (University of Pittsburgh)	40
4:50-5:10	*"PfAP2-1 is an essential transcription Factor of the Malaria Parasite Associated with Invasion-Related Genes"* **Joana Santos** (The Pennsylvania State University)	41
5:10-5:30	*"The Drosophila General Regulatory Factor M1BP Drives Ribosomal Protein Gene Expression by Recruiting TRF2 to their Promoters"* **Doug Baumann** (The Pennsylvania State University)	36
Session D: Heritage Hall **Chair: Yan Jessie Zhang** (University of Texas, Austin)		
3:50-4:10	*"High-Resolution Assays Reveal Details of Mammalian Enhanceosome Organization and Function"* **William Lai** (The Pennsylvania State University)	33
4:10-4:30	*"Dynamic Structure and Organization of Active Enhancers During Specifications and Maintenance of Motor Neuron Identity"* **Ho Sung Rhee** (Columbia University)	47
4:30-4:50	*"Genome-Wide Binding Dynamics of Cohesin in Response to Stress Reveals 3D Spatial Reorganization of p53 Target Genes"* **Jean-François Millau** (University of Sherbrooke)	45
4:50-5:10	*"Probing Chromatin with MNase: A Story Beyond Nucleosome Occupancy"* **Michael Tolstorukov** (Massachusetts General Hosptial)	46
5:10-5:30	*"A Scalable Genome Editing-Based Approach for Mapping the Human Protein Interactome"* **Mathieu Dalvai** (Laval University)	35
5:30-7:30	Program/Dinner Break	**On Your Own**
7:30-9:30	Poster Session II and Reception (even numbered posters)	**Alumni Hall**

Friday, July 24

Session IV: Chromatin Regulation **HUB Auditorium** **Chair: Shaun Mahony** (The Pennsylvania State University)		
8:30-9:05	*"Epigenomic Signatures of Neuronal Diversity in the Mammalian Brain"* **Joseph Ecker** (Howard Hughes Medical Institue, Salk Institue for Biological Studies)	14
9:05-9:40	*"Chromatin Regulators as Cancer Dependencies"* **Christopher Vakoc** (Cold Spring Harbor Laboratory)	15
9:40-10:00	*"Genome-Wide In Vitro Reconstitution of Physiological Nucleosome Positions with Purified Factors"* **Nils Krietenstein** (LMU, University of Münich)	27
10:00-10:20	*"Structure of Transcribed Chromatin is a Sensor of DNA Damage"* **Vasily Studitsky** (Fox Chase Cancer Center)	28
10:20-10:50	Coffee Break **Noontime Lounge**	
10:50-11:10	*"Dynamic Enhancer Landscape During Pancreatic Differentiation of Human ES Cells"* **Feng Yue** (Penn State Hershey)	29
11:10-11:45	*"Painting Chromatin with Novel Protein Chemistries"* **Tom Muir** (Princeton University)	16
11:45-1:30	Lunch Break **On Your Own**	
Session V: Transcription **HUB Auditorium** **Chair: Christopher Vakoc** (Cold Spring Harbor Laboratory)		
1:45-2:20	*"Visualization and Evolution of Developmental Enhancers"* **Michael Levine** (Princeton University)	17
2:20-2:55	*"Transcription-Associated Histone Chaperones: Guardians of the Epigenome?"* **François Robert** (Institut de recherches cliniques de Montreal)	18
2:55-3:15	*"O-GlcNAc Cycling Regulates RNA Polymerase II Pausing and Elongation"* **Brian Lewis** (National Institute for Health, Center for Cancer Research)	30
3:15-3:45	Coffee Break **Noontime Lounge**	
3:45-4:20	*"Interplay between RNA Polymerase II activity and promoter architecture in specification of transcription start sites in Saccharomyces cerevisiae"* **Craig Kaplan** (Texas A&M University)	*19*
4:25-4:55	*"Visualizing human transcription elongation at single nucleotide resolution"* **L. Stirling Churchman** (Harvard Medical School)	20
4:55	Closing Remarks & BBA-Gene Regulatory Mechanisms Poster Awards **HUB Auditorium**	