

## Regulatory and Epigenetic Stochasticity in Development and Disease

### Wednesday March 1, 2017

- 8:00–9:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:00–9:10 *Welcome and Opening Remarks*
- 9:10–9:40 **Andrew Feinberg** (Johns Hopkins University)  
*Epigenomic Stochasticity in Development and Disease (I)*
- 9:40–10:20 **William Jenkinson** (Johns Hopkins University)  
*Statistical Modeling of WGBS Methylation Data Using the Ising Model*
- 10:30–10:50 *Break*
- 10:50–11:30 **John Goutsias** (Johns Hopkins University)  
*An Information-theoretic Approach to Methylation Data Analysis*
- 11:40–12:05 **Andrew Feinberg** (Johns Hopkins University)  
*Epigenomic Stochasticity in Development and Disease (II)*
- 12:15–2:45 *Lunch (on your own)*
- 2:45–3:25 **Leor Weinberger** (University of California, San Francisco (UCSF))  
*Harnessing transcriptional fluctuations for fate control and therapy*
- 3:30–5:00 *Poster Session & Reception (Hosted by IPAM)*

### Thursday March 2, 2017

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:40 **Johan Paulsson** (Harvard University)  
*TBA*
- 9:50–10:05 *Break*
- 10:05–10:45 **Don Geman** (Johns Hopkins University)  
*TBA*
- 10:55–11:10 *Break*

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- 11:10–11:50 **Gábor Balázs** (SUNY Stony Brook)  
*Synthetic biology perspective on eukaryotic cellular evolution*
- 12:00–2:30 *Lunch (on your own)*
- 2:30–3:10 **Andre Levchenko** (Yale University)  
*TBA*
- 3:20–3:40 *Break*
- 3:40–4:20 **Domitilla Del Vecchio** (Massachusetts Institute of Technology)  
*A mathematical model of cell fate reprogramming: From open loop to closed loop feedback control*

### Friday March 3, 2017

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:40 **Adam Arkin** (University of California, Berkeley (UC Berkeley))  
*TBA*
- 9:50–10:05 *Break*
- 10:05–12:00 **White Paper Session**  
*TBA*
- 12:00 *Conclusion*

