

**The H Foundation Basic Science Symposium**  
**Friday, April 20, 2018 • 8:15 AM – 4:45 PM**  
**Prentice Women's Hospital • Conference Room L**

**Agenda:**

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7:30 a.m.	<b>Breakfast and Registration</b>
8:15 a.m.	<b>Welcome and Opening Remarks</b> <b>Vadim Backman, PhD</b> <i>Northwestern University</i>
8:20 a.m.	<b>Rare Cell Analysis of Therapy Resistance in Cancer</b> <b>Arjun Raj, PhD</b> <i>University of Pennsylvania</i>
9:00 a.m.	<b>A 3D Code in the Human Genome</b> <b>Erez Lieberman Aiden, PhD</b> <i>Baylor College of Medicine &amp; Rice University</i>
9:40 a.m.	<b>Coffee Break</b>
9:55 a.m.	<b>Revealing Secrets Hiding in Plain Sight</b> <b>Mark Ellisman, PhD</b> <i>University of California San Diego</i>
10:35 a.m.	<b>Analyzing 3-Dimensional Genome Organization</b> <b>Martin Aryee, PhD</b> <i>Harvard University</i>
11:15 a.m.	<b>Convergence of Nanoimaging and Biology: From Decoding Chromatin Packing to Cancer Diagnostics and Therapeutics</b> <b>Vadim Backman, PhD</b> <i>Northwestern University</i>
11:55 a.m.	<b>Lunch Break</b>
12:40 p.m.	<b>Modeling Cancer as an Actively Evolving Ecosystem</b> <b>Kenneth Pienta, MD</b> <i>Johns Hopkins University</i>
1:20 p.m.	<b>Dynamic Regulation of Epigenome Stability — What Can we Learn from Plants?</b> <b>Mary Gehring, PhD</b> <i>Massachusetts Institute of Technology</i>
2:00 p.m.	<b>What Can we Learn about Metastatic Cancer from Microphysiological Models?</b> <b>Roger Kamm, PhD</b> <i>Massachusetts Institute of Technology</i>
2:40 p.m.	<b>A Two-step Mechanism for Ratcheting DNA Around the Nucleosome</b> <b>Gregory Bowman, PhD</b> <i>Johns Hopkins University</i>
3:20 p.m.	<b>Coffee Break</b>
3:35 p.m.	<b>KEYNOTE LECTURE:</b> <b>Illuminating Biology at the Nanoscale and Systems Scale by Imaging</b> <b>Xiaowei Zhuang, PhD</b> <i>Harvard University</i>
4:35 p.m.	<b>Closing Remarks</b> <b>Vadim Backman, PhD</b> <i>Northwestern University</i>

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