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