Understanding Cancer via the Theoretical Sciences

Thursday, 15 April 2010

9:25 am  Opening Remarks by Salvatore Torquato, Princeton U.

Anna D. Barker, Deputy Director, National Cancer Institute

10:20 – 10:40  Discussion
William Bialek, Princeton University

10:40 – 11:35  “Toward an Ising Model for Cancer and Beyond”
Salvatore Torquato, Princeton University

11:35 – 11:55  Discussion
Iain Couzin, Princeton University

12:00 – 1:30 pm  Lunch

Donald S. Coffey, Johns Hopkins University

2:25 – 2:45  Discussion
Lisa Manning, Princeton University

2:45 – 3:40  “Population Genetics of Cancer”
Gurinder S. Atwal, Cold Spring Harbor Laboratory

3:40 – 4:00  Discussion
Aleksandra Walczak, Princeton University

4:00 – 4:30  Coffee Break

4:30 – 5:25  “Multiscale modeling of cancer: Cell lineages and feedback control”
John Lowengrub, University of California, Irvine

5:25 – 5:45  Discussion
Chris Floudas, Princeton University

Friday, 16 April 2010

9:00 – 12:00  Panel Discussion
Panelists:
Robert Austin, Princeton University
Gurinder S. Atwal, Cold Spring Harbor Laboratory
Donald S. Coffey, Johns Hopkins U., School of Medicine
Yibin Kang, Princeton University
John Lowengrub, University California Davis
Salvatore Torquato, Princeton University

12:00 pm  Lunch and adjournment.