



INTEGRATIVE CANCER BIOLOGY PROGRAM

Junior Investigators Meeting Doubletree Hotel Bethesda, Maryland

October 17-18, 2007

AGENDA

Wednesday, October 17, 2007

- 7:00 AM Registration
- 7:30 AM Continental breakfast
- 8:15 AM **Opening Remarks**
Speakers: Dinah Singer, Director Division of Cancer Biology, NCI
Dan Gallahan, Associate Director, Division of Cancer Biology, NCI
Gerard Ostheimer and Azhar Aziz, Meeting Co-Chairs
- 8:45 AM **Session I**
Chair: Dustin Potter, OSU
- Case Western
Speaker: Evren Gurkan
"Dynamical Modeling of DNA Repair Pathways"
- 9:20 AM MIT
Speaker: Dharini Shah
"Systems biology approach to map the DNA damage network response to the DNA lesion 3-methyladenine"
- 9:55 AM Dana Farber
Speaker: Aravind Subramanian
"Transcriptional signatures of hematopoiesis"
- 10:30 AM Break
- 10:45 AM **Session II**
Chair: Greg Singer, OSU
- Lawrence Berkeley National Lab
Speaker: Rina Gendelman
"Interrogation of microarray data by reverse engineering and forward simulation using Bayesian Network Inference"
- 11:20 AM Duke
Speaker: William Kim
"Integration of mRNA and microRNA signatures in analysis of oncogenic signaling pathways"

11:55 AM OSU
Speaker: Dustin Potter
"Differential Methylation Analysis: From Pre-Process to Post-Analysis"

12:30 PM Working lunch

1:30 PM **Keynote I**
Speaker: Ken Loparo (Case Western Reserve University)
"Multidisciplinary Research in Systems Biology: Challenges and Opportunities"

2:30 PM **NCI Talk**
Speaker: Susan McCarthy (Division of Cancer Biology, NCI)
"The NIH grants process: Getting to know you..."

3:00 PM **NCI Talk**
Speaker: Sonia Jakowlew (Office of Centers, Training and Resources, NCI)
"Research Fellowship Training and Career Development Opportunities Supported by the National Cancer Institute"

3:30 PM **Keynote II**
Speaker: Margaret Briebl (University of Arizona)
"Building and Leading a Research Team"

4:30 PM Break

5:30 PM Reception

6:00 PM Working dinner at the hotel

7:00 PM **Keynote III**
Speaker: Douglas Lauffenburger (MIT)
"The Origin of (Research) Species -- A Personal View of Interdisciplinary Science at the Biology/Engineering Interface"

8:00 PM **Discussion groups:**
Tumor microenvironment and metastasis
Moderator: Paraic Kenny (LBNL)

DNA Damage and Repair
Moderator: Dharini Shah (MIT)

Signaling
Moderators: Mara Jeffress (LBNL) and Jeffrey Chang (Duke)

Thursday, October 18, 2007

- 8:00 AM Continental breakfast
- 9:00 AM **Session III**
Chair: Karen Sachs
- 9:00 AM Vanderbilt
Speaker: Kam Yoonseok
"Mathematical modeling of cancer invasion: Experimental validation using a 2D circular invasion assay"
- 9:35 AM Stanford
Speaker: Qiu Peng
"Semi-supervised classification based on Fiedler value and network connectivity"
- 10:10 AM MGH
Speakers: Adam Zhang and Bill Wang
"Multi-scale, Multi-resolution Modeling in Gliomas & NSCLC"
- 10:45 AM Break
- 11:00 AM **Keynote IV**
Speaker: Keith Elliston (Genstruct)
"Alternate Pathways to a Career in the Biomedical Sciences"
- Noon Working lunch
- 1:30 PM **Panel discussion** with Keynote speakers and the NCI speakers
Chairs: Azhar Aziz and Gerard Ostheimer
- 3:00 PM Adjourn