

**NIH ROADMAP  
NATIONAL CENTERS FOR BIOMEDICAL COMPUTING  
2006 ALL HANDS MEETING**

**JULY 17 - 19, 2006  
LISTER HILL CENTER, NIH  
AGENDA**

**MONDAY, JULY 17, 2006**

*All sessions on July 17 are located in the Lister Hill Auditorium.*

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|-------------------------|--|
| 7:00 a.m. - 5:30 p.m.   | <b>Registration</b><br>Location: <i>Lobby Area, Lister Hill Center</i>   |
| 7:45 a.m. - 8:15 a.m.   | <b>Light Breakfast</b><br>Location: <i>Lobby Area, Lister Hill Center</i>  |
| 8:15 a.m. - 8:30 a.m.   | <b>Welcoming Remarks</b><br><i>John Whitmarsh, Ph.D., National Institute of General Medical Sciences, NIH</i>  |
| 8:30 a.m. - 12:30 p.m.  | <b>Presentations on "Hot Topics" from the Directors of the National Centers in Biomedical Computing</b> (20 minutes of presentation, followed by 10 minutes of discussion for each Center) |
| 8:30 a.m. - 9:00 a.m.   | <b>Physics-based Simulation of Biological Structures (Simbios)</b><br><i>Russ Altman, M.D., Ph.D., Stanford University</i>   |
| 9:00 a.m. - 9:30 a.m.   | <b>National Alliance for Medical Imaging Computing (NAMIC)</b><br><i>Ron Kikinis, M.D., Brigham and Women's Hospital</i>   |
| 9:30 a.m. - 10:00 a.m.  | <b>Informatics for Integrating Biology and the Bedside (I2B2)</b><br><i>Isaac Kohane, M.D., Ph.D., Brigham and Women's Hospital</i>  |
| 10:00 a.m. - 10:30 a.m. | <b>Center for Computational Biology (CCB)</b><br><i>Arthur Toga, Ph.D., University of California at Los Angeles</i>  |
| 10:30 a.m. - 11:00 a.m. | <b>Break and Poster Viewing</b><br>Location: <i>Lobby Area, Lister Hill Center</i>   |
| 11:00 a.m. - 11:30 a.m. | <b>National Center for Integrative Biomedical Informatics (NCIBI)</b><br><i>Brian D. Athey, Ph.D., University of Michigan</i>  |
| 11:30 a.m. - 12:00 noon | <b>National Center for the Multi-Scale Analysis of Genomic and Cellular Networks MAGNet</b><br><i>Andrea Califano, Ph.D., Columbia University</i>  |

- 12:00 noon - 12:30 p.m.      **National Center for Biomedical Ontology (cBIO)**  
*Mark A. Musen, M.D., Ph.D., Stanford University*
- 12:30 p.m. - 2:00 p.m.      **Lunch on your own and Poster Viewing**
- 2:00 p.m. - 3:00 p.m.      **Building Bridges I**
- NIH Roadmap Panel*  
**Networks and Pathways:**  
*Doug Sheeley, Ph.D., National Center for Research Resources, NIH*  
**Clinical Networks:**  
*Jody Sachs, D.P.M., National Center for Research Resources, NIH*  
**Nanomedicine:**  
*Richard Fisher, Ph.D., National Eye Institute, NIH*
- Networked Science Panel*  
**Computational Research Resources:**  
*Greg Farber, Ph.D., National Center for Research Resources, NIH*  
**caBIG:**  
*Peter Covitz, Ph.D., National Cancer Institute, NIH*  
**Genetic Association Information Network Program:**  
*Teri Manolio, M.D., Ph.D., National Heart, Lung, and Blood Institute, NIH*  
*David Wholley, Foundation for the National Institutes of Health*  
**Genes and Environment Initiative:**  
*David Balshaw, Ph.D., National Institute for Environmental Health Sciences, NIH*  
Location: *Lister Hill Auditorium*
- 3:00 p.m. - 5:30 p.m.      **Break and Poster Viewing**  
Location: *Lobby Area, Lister Hill Center*
- 4:00 p.m. - 5:30 p.m.      **Meeting: Center Directors and Project Team**
- 5:30 p.m.                      **Adjournment**

**Tuesday, July 18, 2006**

- 7:30 a.m. - 5:00 p.m.      **Registration**  
Location: *Lobby Area, Lister Hill Center*
- 8:00 a.m. - 8:30 a.m.      **Light Breakfast**  
Location: *Lobby Area, Lister Hill Center*
- 8:30 a.m. - 8:45 a.m.      **Opening Remarks**  
*John Whitmarsh, Ph.D., National Institute of General Medical Sciences, NIH*  
Location: *Lister Hill Auditorium*

8:45 a.m. - 9:45 a.m.

## **Building Bridges II**

### ***Federal Government and NIH Intramural Panel***

#### **NIH Intramural Program:**

*Michael Gottesman, M.D.*

#### **National Center for Biotechnology Information:**

*David Lipman, M.D.*

#### **National Institute of Standards and Technology:**

*Arlin Stoltzfus, Ph.D.*

#### **National Coordination Office for Networking and Information Technology Research and Development:**

*Simon Szykman, Ph.D.*

#### **National Science Foundation:**

*Christopher Greer, Ph.D.*

#### **The Telemedicine and Advanced Technologies Research Center (TATRC) Health Grid:**

*Mary Kratz*

Location: *Lister Hill Auditorium*

9:45 a.m. - 10:00 a.m.

### **Break and Poster Viewing**

Location: *Lobby Area, Lister Hill Center*

10:00 a.m. - 12:00 noon

### **Concurrent NCBC Workgroup Meetings:**

- Software Yellow Pages and Resourceome
- Scientific Ontologies
- Applications of Systems Biology, Modeling, and Analysis

12:00 noon - 1:00 p.m.

### **Lunch on your own and Poster Viewing**

1:00 p.m. - 2:00 p.m.

### **NCBC Workgroup Reports (20 minutes per group)**

Location: *Lister Hill Auditorium*

2:00 p.m. - 3:00 p.m.

### **Dialogue with the NIH Director and NCBC Roadmap Implementation Working Group Leaders**

*Elias Zerhouni, M.D., Director, National Institutes of Health*

*Jeremy Berg, Ph.D., Director, National Institute of General Medical Sciences, NIH*

*Donald Lindberg, M.D., Director, National Library of Medicine, NIH*

*NCBC Center Directors*

Location: *Lister Hill Auditorium*

3:00 p.m. - 3:30 p.m.

### **Break and Poster Viewing**

Location: *Lobby Area, Lister Hill Center*

3:30 p.m. - 5:00 p.m.

## **Building Bridges III**

### ***Modeling Panel***

#### **Systems Biology:**

*Jennifer Couch, Ph.D., National Cancer Institute, NIH*

*Jerry Li, M.D., Ph.D, National Institute of General Medical Sciences, NIH*

*Jennie Larkin, Ph.D., National Heart, Lung and Blood Institute, NIH*

**Multiscale Modeling:**

*Grace Peng, Ph.D., National Institute of Biomedical Imaging and Bioengineering, NIH*

**Imaging Panel**

**Pediatric Neuroimaging Initiative:**

*Judith Rumsey, Ph.D., National Institute of Mental Health, NIH*

**Neuroimaging Tools and Resources Clearinghouse:**

*Yantian Zhang, Ph.D. National Institute of Biomedical Imaging and Bioengineering, NIH*

**Molecular and Cell Imaging:**

*Cathy Lewis, Ph.D., National Institute of General Medical Sciences, NIH*

**Imaging Technology Development:**

*Laurence Clark, National Cancer Institute, NIH*

Location: *Lister Hill Auditorium*

5:00 p.m.

**Adjournment**

**Wednesday, July 19, 2006**

8:30 a.m. - 9:00 a.m.

**Light Breakfast**

Locations: *Lobby Area, Lister Hill Center and Lobby Area, Natcher Conference Center*

9:00 a.m. - 1:00 p.m.

**Various NCBC Dissemination Events**

9:00 a.m. - 10:30 a.m.

**i2b2: Informatics for Integrating Biology and the Bedside**

*“Harnessing the Health Care Enterprise for Translational Research in the Genomic Era” Zak Kohane Center Director*  
Location: *Natcher Conference Center Room C1/C2*

9:00 a.m. - 11:00 a.m.

**Simbios: Physics-Based Simulation of Biological Structures**

*“Simbios and SimTK: Physics-Based Modeling”*  
Location: *Natcher Conference Center Room G1/G2*

9:00 a.m. - 12:00 noon

**CCB: Center for Computational Biology**

*“Computational Tools for Representation and Analysis of Biological Shape, Form and Size”*  
Location: *Lister Hill Visitor’s Center*

9:00 a.m. - 12:00 noon

**NCBO: National Center for Biomedical Ontology**

*“Ontology: A Vision for the Future and Its Realization”*  
Location: *Natcher Conference Center Balcony A*

- 9:00 a.m. - 12:00 noon      **NCIBI: National Center for Integrative Bioinformatics**  
presents a tutorial session on Computational Systems Biology  
“Computational Systems Biology to Accelerate Research in Complex  
Disease Applications: 1) Cellular mechanisms of oxidative damage in  
Diabetes Mellitus complications; and 2) Prostate Cancer  
Location: *Natcher Conference Center Room F1/F2*
- 9:00 a.m. - 12:00 noon      **MAGNet: National Center for Multi-Scale Study of Cellular  
Networks**  
“*geWorkbench: an interoperable platform for integrated genomics and  
systems biology*” Center Director *Dr. Andrea Califano*  
Location: *Natcher Conference Center Room A*
- 9:00 a.m. - 5:30 p.m.      **NA-MIC: National Alliance for Medical Image Computing**  
“*3D Slicer Training Workshop*”  
Location: *Lister Hill Auditorium*
- 1:00 p.m.      **Adjournment**