



June 9, 2006

CRA-NIH Computing Research Challenges in Biomedicine Workshop

PURPOSE and AGENDA

Location: Bethesda Marriott Hotel, 5151 Pooks Hill Rd., Bethesda, MD.
Tel: (301). 897.9400

Date: June 15-16, 2006

Workshop Motivation, Goals, and Questions

Computation has become integral and critical to modern biomedical research. Because computation is integral to biomedical research, its deficiencies have become significant limiters on the rate of progress of biomedical research (NIH Roadmap).

Biomedical researchers face substantial and substantive challenges in embracing cutting-edge computing research. What are the high priority computing challenges motivated by biomedical research present and future?

Computing researchers face substantial and substantive challenges in understanding current and future biomedical research needs. What are examples of computing research that could meet present and future biomedical research needs?

What are the challenges for realizing the synergies between these Computing and Biomedicine that can drive both forward through cooperative effort?

The objective of the Workshop is to develop a list of focused action items that will have impact within the NIH and computing communities.

Thursday, June 15, 2006

8:00 a.m. Coffee and Light Breakfast

8:30 a.m. Welcome and Goals of the Workshop (Johnson, Reed, Lyster, Peterson)

- 9:00 a.m. Biomedical Keynote: Lee Hood – Digital Biology
- 10:00 a.m. Biomedical Keynote: Jill Mesirov - Computational Paradigms for Genomic Medicine
- 11:00 a.m. Break
- 11:30 a.m. Computer Science Keynote: Dan Reed
- 12:30 p.m. Lunch
- 1:30 p.m. Computer Science Overviews: Chris Johnson and Jim Gray
- 2:30 p.m. Discussion of Computing Research for Biomedicine
- 3:30 p.m. Working Groups
- 5:00 p.m. Brief Overview of Computing Research Priorities and Action Items from Working Groups
- 6:30 p.m. Workshop Dinner at Rock Bottom Restaurant & Brewery – Bethesda, 7900 Norfolk Avenue Bethesda MD 20814

Friday, June 16, 2006

- 8:00 a.m. Coffee and Light Breakfast
- 8:30 a.m. Working Groups
- 10:30 a.m. Break
- 11:00 a.m. Presentation of Final Computing Research Priorities and Action Items
- 12:00 p.m. Lunch
- 1:00 p.m. Workshop Ends