



2004-05 Program on Computational Biology of Infectious Disease

Tutorials and Opening Workshop: September 18-22, 2004

Mid-Program Focused Workshops: TBA

Transition Workshop and Symposium: May 22-24, 2005

Infectious disease remains a major cause of suffering and mortality among people in the developing world, and a constant threat worldwide. The advent of genome science and the continuing rapid growth of computational resources together herald an opportunity for the mathematical and statistical sciences to play a key role in the elucidation of pathogenesis and immunity and in the development of the next generation of therapies and global strategies. The program will encompass both genomic and population-level studies, including microbial and immunological genomics, vaccine design and proteomics, drug target identification, gene expression modeling and analysis, molecular evolution of host-microbe systems, drug resistance, epidemiology and public health, systems immunology, and microbial ecology.

Program Leaders: Thomas B. Kepler (Chair) and Denise Kirschner

Opportunities to Participate

- ◆ *SAMSI-University Fellows* help lead the research as well as join academic life at a SAMSI university
- ◆ *Long-term Research Visitors* participate in the research
- ◆ *SAMSI New Researcher Fellows* are fully engaged in the program for one semester to one year
- ◆ *Postdoctoral Fellows*, typically appointed for two years, play major roles in pursuing the research
- ◆ *Workshop Attendees* inform the course of the research and have early access to the results.

Members of underrepresented groups are especially encouraged to apply.

www.samsi.info/compbio-home.html



The Statistical and Applied Mathematical Sciences Institute (SAMSI) is a national institute that is forging a new synthesis of the statistical and applied mathematical sciences with disciplinary science to confront important data- and model-driven scientific challenges.

SAMSI is a partnership of the National Science Foundation with the consortium of Duke University, North Carolina State University, the University of North Carolina at Chapel Hill, and the National Institute of Statistical Sciences.

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