

LAURA SONTAG-KLEIMAN

EDUCATION

2004 – Present Massachusetts Institute of Technology Cambridge, MA
Ph.D. Candidate, Computational and Systems Biology Program

2000 – 2004 Rutgers University New Brunswick, NJ
B.A. with Highest Honors, Majors: Biomathematics and Mathematics

RESEARCH EXPERIENCE

2005 – Present Massachusetts Institute of Technology Cambridge, MA
Graduate Student, Advisors: Professors Peter K. Sorger (Harvard Medical School) and Douglas A. Lauffenburger

2002 – 2004 Rutgers University Department of Genetics Piscataway, NJ
Undergraduate Student Researcher, Advisor: Professor David E. Axelrod

Summer 2003 Fred Hutchinson Cancer Research Center Seattle, WA
Summer Undergraduate Research Intern, Advisor: Dr. E. Georg Luebeck

PUBLICATIONS

Sontag LB, Lorincz MC and Luebeck EG. (2006) Dynamics, stability and inheritance of somatic DNA methylation imprints. *Journal of Theoretical Biology*, 242(4):890-9.

Sontag L, Axelrod DE. (2005) Evaluation of pathways for progression of heterogeneous breast tumors. *Journal of Theoretical Biology*, 232(2):179-189.

TEACHING EXPERIENCE

Teaching Assistant, Biological Engineering Programming Course for MIT Undergraduates, Cambridge, MA, Spring 2006; Instructor: Professor Drew Endy

Teaching Staff Member, DIMACS Bio-Math Connect Institute for High School Teachers, Piscataway, NJ, July 2004; Principal Organizer: Professor Fred Roberts

PRESENTATIONS

Poster: “An Integrated Experimental and Computational Study of Signaling Activated by ErbB Receptors and Oncogenic K-Ras Mutations” Cold Spring Harbor Laboratory Conference on Mechanisms & Models of Cancer, Cold Spring Harbor, NY, August 2008

Short Talk: “Quantitative Analysis of Mitogenic Signaling Pathways Activated by EGFR and K-Ras Mutations” Nature-CNIO conference on Oncogenes and Human Cancer: The Next 25 Years. Madrid, Spain, October 2007

Poster: “Stochastic Models of DNA Methylation” Gordon Research Conference on Theoretical Biology and Biomathematics, Tilton, NH, June 2004