

# SYSTEMS BIOLOGY OF HUMAN DISEASE

$$O = \sum_{i=1}^{N_{\text{signals}}} \int_0^T dt (x_i(t; \{k_i\}) - x_{i,c}(t))^2$$
$$O \approx O_0 + \sum_{m=1, n=1}^M (\ln k_m - \ln k_{n,0})^T H_{mn} (\ln k_n - \ln k_{n,0}) + O(\Delta k^3)^{\text{species}}$$
$$U(\{k_i\}) = \sum_{i=1} \int_0^T dt \frac{[x_{i,k_i}(t) - x_i^e(t)]^2}{\sigma_i^2}$$

JUNE 18-19, 2009

Registration and details at:

[www.csb2.org](http://www.csb2.org)

THE JOSEPH B. MARTIN CONFERENCE CENTER  
HARVARD MEDICAL SCHOOL  
77 AVENUE LOUIS PASTEUR  
BOSTON, MA 02115

Early registration deadline: April 15, 2009

Poster abstract deadline: May 15, 2009

**Signaling Pathways**  
**Genomics and Proteomics**  
**Systems Pharmacology**

### Speakers include:

Uri Alon, Weizmann Institute  
Richard Bond, University of Houston  
Philippe Cluzel, Harvard University  
Suzanne Gaudet, Dana-Farber Cancer Institute  
Shubha Govind, City College of New York  
Nathanael Gray, Dana-Farber Cancer Institute  
Gabriel Helmlinger, Novartis  
Douglas Lauffenburger, Massachusetts Institute of Technology  
Vamsi Mootha, Harvard Medical School  
Emily Pace, Merrimack Pharmaceuticals  
Elba Serrano, New Mexico State University  
Stanley Shaw, Massachusetts General Hospital  
Olga Troyanskaya, Princeton University  
Marian Walhout, University of Massachusetts Medical School

\* Student and postdoc poster session on June 18

\* Additional presentations will be chosen from submitted poster abstracts

Sponsored by:

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