

Cornell New Life Sciences Initiative/
Department of Computer Science
COLLOQUIUM

Tuesday, November 30, 2004

4:30pm

G10 Biotech

Sorin Istrail
Celera Genomics



*Comparative Genomics Algorithms: From
Genomics to Protein Folding and to Systems*

With the recent availability of tools for genome assembly, assembly comparison, and automatic annotation of genomes, genomics entered its post-genome sequence phase, where understanding the control systems of the cell is a basic theme. Building on its success in bio-molecular sequence analysis, comparative genomics is continually expanding its scope and methods towards the components of the cell.

In this talk, I will present an overview of our work on geometries of protein folds, patterns of inheritance of complex disease, and logic functions of the genomic cis-regulatory code.