

# Conference at a Glance

## Data Integration for the Pharmaceutical Industry

### Accelerating Milestone Achievement

September 24-25, 2003 • Baltimore, Maryland

Scientific Advisors: Ms. Amy Dasch, Genzyme Corp. • Dr. Eric Neumann, Beyond Genomics

## Data Visualization and Interpretation

### Making Breakthroughs Possible in the Omics Revolution

September 24-25, 2003 • Baltimore, Maryland

Scientific Advisors: Dr. Joanna L. Batstone, IBM Corporation • Dr. Georges G. Grinstein, University of Massachusetts and AnVil • Dr. Bruno W.S. Sobral, Virginia Tech

## WEDNESDAY, SEPTEMBER 24 - Pre-conference Short Course Tutorials

### Course One: Integrating Visualization and Data Mining for Mining for Microarray Analysis

Dr. Georges Grinstein, Professor, Computer Science Department; Director, Institute for Visualization and Perception Research; Director, Center for Biomolecular and Medical Informatics, University of Massachusetts Lowell and Founder and Director of Research, AnVil

### Course Two: Enterprise Database Integration for Researchers

Dr. William J. Pjura, President, Altionics, Inc.

### Kick-off Keynote: Mining the Biomedical Literature using Semantic Analysis and Natural Language Processing Techniques

Dr. Ronen Feldman, Assistant Professor, Mathematics and Computer Science Department, Israel's Bar-Ilan University and Chief Scientist, Clearforest, Ltd.

### Kick-off Keynote: Integromics in Drug Discovery: Practical Tools for Integrating Genomics, Proteomics, Bioinformatics, and Chemoinformatics

Dr. John N. Weinstein, Senior Research Investigator, Laboratory of Molecular Pharmacology, National Cancer Institute, National Institutes of Health

## Ontologies

### Ontologies in Breast Cancer: Concepts vs Words

Dr. Michael Liebman, Abramson Cancer Center of the University of Pennsylvania

### MedScan - Automatic Text Mining and Data Extraction System

Dr. Ilya Mazo, Ariadne Genomics Inc

### Opportunities for Text Mining, supported by Ontology-Based Knowledge Assembly Description

Mr. Chris Sole, Jarg Corp./SemanTx Life Sciences, Inc.

### Flexible IT Structures For Ontology Networking

Mr. John Wilbanks, Incellico

## Integrating Diverse Data Sources

### Improving the Drug Discovery Process Through Technology Approaches

Dr. Herschel J.R. Weintraub, IBM Life Sciences

### Intelligent Integration of Heterogeneous Bioinformatics Data Sources

Dr. David Silberberg, Johns Hopkins University Applied Physics Lab

### Bioinformatics: Not Just for Sequences Anymore

Dr. Donald Jackson, Bristol-Myers Squibb

### "The Open Science Alliance" - Accelerating Data Integration to Support Pharma Collaborative eR&D

Dr. Richard Lysakowski, Collaborative Electronic Notebook Systems Association

### Informatics-Driven Chemistry in Action: The Success of Data Integration in a Discovery Research Organization

Dr. Ramesh Durvasula, Senior Senior Director, Applied Science, Tripos, Inc.

## Data Mining

### A Life Scientist's Road to Interoperability of Data and Tools

Dr. Bruno WS Sobral, The Virginia Bioinformatics Institute, Virginia Tech

### Knowledge Extraction in the "Omics" Era: The Meaning is in the Literature

Dr. Damien Chaussabel, National Institute of Allergy and Infectious Disease, National Institutes of Health

### Analyzing and Managing Affymetrix GeneChip Data

Mr. Gregg Wright, Life Sciences, IMC Inc.

### Mining a Cross-Species Expression Data Repository

Dr. Jordan Stockton, Marketing, Silicon Genetics

### PathwayAssist: A Tool for the Integration of Gene Expression, Protein-Protein Interaction, Metabolic Pathway and Literature Data

Mr. Jason Goncalves, Iobion Informatics

## Thursday, September 25 - Data Visualization

### Integrated, Tightly-Coupled, High Dimensional Analysis and Visualization for Microarray Expression Data

Dr. Georges Grinstein, Institute for Visualization and Perception Research; University of Massachusetts Lowell; AnVil

### Visualizing the Genome: Techniques for Presenting Human Genome Data and Annotations

Dr. Ann Loraine, Affymetrix, Inc.

### Methods for Analysis and Visualization of SNP Genotype Data for Complex Diseases

Dr. Anya Tsalenko, Life Sciences Technologies Laboratory (LSTL) at Agilent Labs

### Combining Gene Ontology with Sequence Similarity over Multiple Genomes

Dr. Andre Nantel, National Research Council of Canada

### Using Multiple Visualization Types Together with Multiple Data Types to Support Fast Decision Making in the Pharmaceutical Pipeline

Dr. Gavin Fischer, OmniViz

## Joint Closing Plenary Session: Effective Data Management for Drug Discovery

### Information Pathways in Pharmaceutical R&D

Dr. Otto Ritter, Associate Director, Bioinformatics, Enabling Science and Technology, AstraZeneca R&D Boston

### Standards to Enable Information Integration

Dr. David Benton, Director, Knowledge Integration and Discovery Systems, Knowledge Management and Informatics Department, GlaxoSmithKline

### Microarray Gene Expression Analysis and Data Integration

Dr. Heng Dai, Senior Scientist, Bioinformatics, Drug Discovery, Johnson & Johnson PRD

### New Challenge for Drug Discovery Informatics: Information and Knowledge Integration

Dr. Abdel Laoui, Head, Chemoinformatics, Aventis Pharmaceuticals

### Towards a Universal Model for Pharmacological Clinical Trial Data

Mr. Ralph Hughes, Warehouse Architect, Data Management, Ceregenics, Inc.