

SCIENCE 2002 SCHEDULE OF EVENTS

Unless otherwise specified, all events will take place in Alumni Hall (formerly the Masonic Temple) on the University of Pittsburgh campus.

Wednesday, September 18

7:30 a.m. Conference registration opens

Continental breakfast

8:45 a.m. **Plenary Session I**
Dickson Prize Lecture
C. David Allis, Ph.D.
“Translating the Histone Code: A Tale of Tails”

10:00 a.m. Refreshment and Trade Show Break

10:30 a.m. **Spotlight Session I—*Mining Monster Databases***
Moderator:
David Jasnow, Ph.D.
Speakers:
Paul Chang, M.D.—“Delivery of Large Medical Image Data via Just-in-Time Mechanisms”
Andrew Connolly, Ph.D.—“Mining the Night Sky: Astrophysics in the 21st Century”
Karoly Mirnics, M.D.—“DNA Microarray Analysis of Brain Disorders”

Spotlight Session II—*Regenerative Medicine*

Moderator:
Alan Russell, Ph.D.
Speakers:
William R. Wagner, Ph.D.—“Biodegradable Scaffolds for Cardiovascular Tissue Engineering”
Douglas Kondziolka, M.D., M.Sc.—“Neurotransplantation for Neurodegenerative Disorders: From Bench to Bedside”
Jeffrey O. Hollinger, D.D.S., Ph.D.—“Options for Bone Tissue Engineering”

Spinout Session I

Science2002 spinout sessions are designed to provide a forum for scientists working in nonacademic settings to share their work. Speakers will be announced. For the latest information about the scientists who will be presenting at each of the spinout sessions, check the Science2002 web site: www.science2002.pitt.edu.

- 12:00 noon Trade Show and Lunch Break
- 12:30 p.m. **Poster Session I—*Working with Large Datasets***
Poster Session II—*Regenerative Medicine*
- 2:00 p.m. **Spotlight Session III—*Responding to the Threat of Bioterrorism***
Moderator:
Michael M. Wagner, M.D., Ph.D.
Speakers:
Andrew W. Moore, Ph.D., and Gregory F. Cooper, M.D., Ph.D.—
“Algorithms for Early Surveillance-Based Detection of
Bio-Attacks”
Wendy Chapman, Ph.D.—“Active Surveillance using Free-Text
Analysis”
Graham Hatfull, Ph.D.—“Rapid Identification and Drug
Susceptibility Testing of Microbes”
- Spotlight Session IV—*Chemistry of Nitric Oxide***
Moderator:
Timothy R. Billiar, M.D.
Speakers:
Edith Tzeng, M.D.—“Inducible Nitric Oxide Synthase Gene
Transfer for Intimal Hyperplasia”
David Geller, M.D.—“Regulation of the Human iNOS Gene: NO
Simple Matter!”
Anthony J. Bauer, Ph.D.—“Flagrant but Not Fragrant: Gases
Making Noises as Signaling Molecules within the
Gastrointestinal Tract”
- Spinout Session II**
- 3:30 p.m. Refreshment and Trade Show Break
- 4:00 p.m. **Poster Session III—*Biodefense***
Poster Session IV—*Biochemistry*
- 5:30 p.m. **Science as Art Reception**
Frick Fine Arts Building

Thursday, September 19

- 8:00 a.m. Registration and continental breakfast
- 8:45 a.m. **Plenary Session II**
Mellon Lecture

Errol C. Friedberg, M.B., B.Ch.
“DNA Repair and DNA Damage Tolerance—Fundamental
Mechanisms for Genomic Integrity”

10:00 a.m. Refreshment and Trade Show Break

10:30 a.m. **Spotlight Session V— *Genetic Linkage and Genomic Evolution***

Moderator:

James Pipas, Ph.D.

Speakers:

Jeffrey Lawrence, Ph.D.—“Constraints on Gene Transfer in
Bacteria”

Dannie Durand, Ph.D.—“Validating Gene Clusters”

Daniel E. Weeks, Ph.D.—“Linkage Mapping of Complex Human
Diseases”

Spotlight Session VI—*Robots and Other Cool Gadgets*

Moderator:

Richard Grace, Ph.D.

Speakers:

John Bares, Ph.D.—“Large-Scale Mobile Robots”

Andrew Schwartz, Ph.D., and Yoky Matsuoka, Ph.D.—“Cortical
Control of Prosthetics”

Robert T. Collins, Ph.D.—“Space-Time Face-Body Biometrics for
Human Identification from Video”

Spinout Session III

12:00 noon Trade Show and Lunch Break

12:30 p.m. **Poster Session V—*Genetics, Genomics, and Proteomics***

Poster Session VI—*Robots and Cool Gadgets*

2:00 p.m. **Spotlight Session VII—*The Shifting Sands of Scientific
Consensus in Clinical Research***

Moderator:

S. Clifford Schold Jr., M.D.

Speakers:

John Kirkwood, M.D.—“Experience with the Eastern Cooperative
Oncology Group (ECOG) and U.S. Intergroup Studies of
Biological Therapy for High-Risk Melanoma”

Roberta Ness, M.D., M.P.H.—“Would You Buy Used Hormones
from Me? The Controversy around Hormone Replacement
Therapy”

S. Clifford Schold Jr., M.D.—“Keeping an Eye on the Target: Ethical and Regulatory Complexities of Conducting Quality Clinical Research”

Spotlight Session VIII—*Modeling Complex Dynamic Systems*

Moderator:

Ivet Bahar, Ph.D.

Speakers:

Joel R. Stiles, M.D., Ph.D.—“Spatial Realism and Models of Cellular Physiology and Pathophysiology”

Judith Klein-Seetharaman, Ph.D.—“G-Protein Coupled Receptor Activation”

Kenneth Jordan, Ph.D.—“Monte Carlo Simulations of Water Clusters”

Anna C. Balazs, Ph.D.—“Forming Spatially Ordered Composites from Mixtures of Nanoparticles and Block Copolymers”

Spinout Session IV

3:30 p.m. Refreshment and Trade Show Break

4:00 p.m. **Poster Session VII—*Clinical and Epidemiological Research***
Poster Session VIII—*Modeling*

5:00 p.m. **Synergy in Science Barbecue and Rock-Out**
Cathedral of Learning lawn

Friday, September 20

8:00 a.m. Registration and continental breakfast

9:00 a.m. **Plenary Session III**
Klaus Hofmann Lecture
Ferid Murad, M.D., Ph.D.
“Cellular Signaling with Nitric Oxide and Cyclic GMP”

Special Plenary Lecture
Carol A. Nancy, Ph.D.
“Harvesting the Fruit of Your Ph.D.: Life after Academia”

10:00 a.m. **“First Look” Jazz Brunch & University Technology Showcase**
This event will give university researchers a chance to discuss new technologies, which are available for licensing, with potential investors and allow students interested in science and technology careers an opportunity to network with prospective local employers.