

BIOTECHNOLOGY: PAST, PRESENT & FUTURE  
SEPTEMBER 21 - 23, 2008

*Organizers:* Mila Pollock and Jan Witkowski  
*Advisors:* Sydney Brenner, Peter Feinstein, Lee Hood,  
Tom Maniatis and Richard Roberts

**SUNDAY, September 21**

**6:00 to 7:30 p.m.** Arrival and Welcome Dinner

**7:30 p.m. *Origins of Biotechnology***

Keynote Addresses by:

**Richard Roberts**, *Biotechnology, past, present and future*

**Robert Bud**, *Prehistory, from ancient times to 1970*

**Stelios Papadopoulos**, *Business & modern biotech, 1970-1980*

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**MONDAY, September 22**

**9:00 a.m. *Early days in biotechnologies***

**Charles Weissmann**, *Biogen*

**Herbert Heyneker**, *Genentech*

10:30 am Coffee

**11:00 a.m. *Enabling Technology***

**Don Comb**, *Role of support companies*

**MaryAnn Feldman**, *Commercializing Cohen-Boyer: The origins  
of University Bio-technology transfer*

**Peter Feinstein**, *Venture Investing in Human Therapeutics*

12:30 p.m. Lunch

**MONDAY, September 22**

**2:00 p.m. *Interactions of Biotechnology and Society***

**Robert Steinbrook**, *Influence of government policies*

**Alan McHughen**, *Influence of public: Genetically-modified  
organisms*

**John Leamon**, *DNA sequencing and personal genomes*

3:30 p.m. Coffee

**4:00 p.m. *The Raw Data: Biotechnology Documentation***

**Kenneth Thibodeau**, *The survival and exploitation of scientific  
data in cyberspace*

**4:30 p.m. *Panel Discussion: Preserving and accessing the history  
of biotechnology.***

Robert Bud, Suzanne Grefsheim, Mila Pollock

**6:00 p.m. Cocktails and Lobster Banquet**

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**TUESDAY: September 23**

**9:00 a.m. *Lessons for the Future***

**Garen Bohlin**, *Starting a biotech company in the 21st century*

**Yuk-Lam Lo**, *Emerging markets: perspective from China  
presented by Julie Xing*

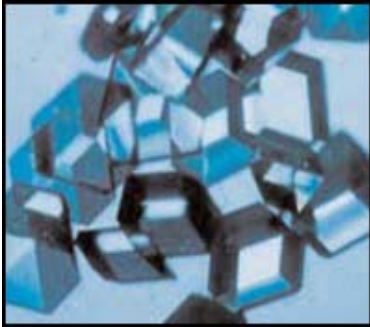
**Marc Van Montagu**, *Plant biotechnology: economics and the  
developing world*

10:30 a.m. Coffee

**11:00 a.m. *Panel Discussion: Promoting the History of  
Biotechnology***

Ken Murray, Robert Olby, Richard Roberts, Dominique Tobbell,  
Jan Witkowski

12:00 p.m. Lunch



Biotechnology has long played a key role in human civilization, for as long as beer has been brewed or bread baked, and throughout the 20th century, bacteria were used for the synthesis of chemicals, for example, amino acids, and antibiotics.

But what we think of as the biotechnology industry arose with extraordinary speed in the latter part of the 20th century. The scientific foundation came with the application of recombinant DNA technologies, and there was a remarkable interaction between entrepreneurial academic scientists and venture capitalists. It is not often that a new industry is created, and we have the opportunity with biotechnology to study how the industry arose.

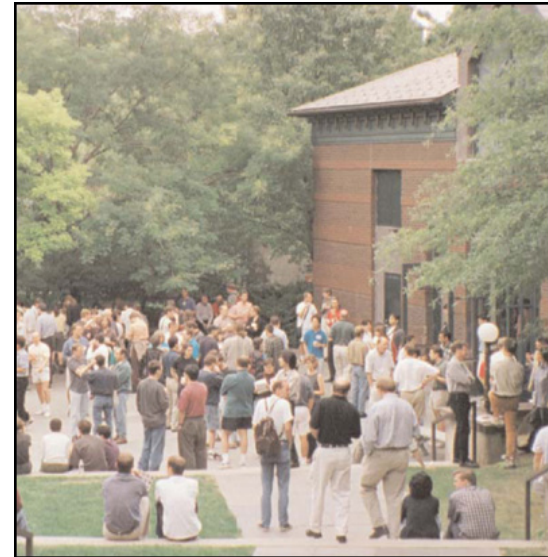
In this meeting we will hear from participants in those early days and from sociologists and economists who have examined how the scientific and business worlds came together.

Cold Spring Harbor Laboratory is a world-renowned research and educational institution with research programs focusing on cancer, neurobiology, plant genetics, genomics and bioinformatics, and a broad educational mission, including the recently established Watson School of Biological Sciences. The Laboratory's meetings and courses programs attract over 8,000 scientific visitors annually.



Cold Spring Harbor Laboratory's  
Genentech Center for the History of  
Molecular Biology and Biotechnology

## BIOTECHNOLOGY: PAST PRESENT & FUTURE September 21-23, 2008



Grace Auditorium  
Cold Spring Harbor Laboratory  
Cold Spring Harbor, New York

*A two-day conference exploring the history, current state and  
Emerging trends of the biotechnology industry*