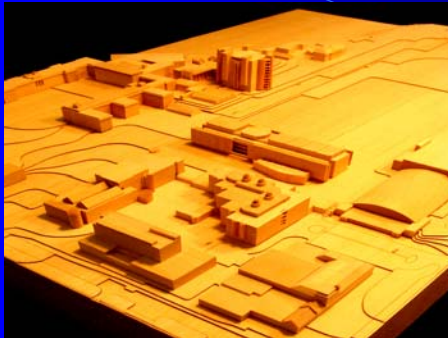


A Keystone for the New Life Sciences at Cornell University:

Life Science Technology Building

Life Science Technology Building



Building Concept

- *To integrate life sciences with physical, engineering, and computational sciences while maintaining maximal programmatic flexibility*
- *To provide campus-wide access to state-of-the-art technologies, biological resources, and analytical capabilities*
- *To enhance connectivity for research, education, and outreach activities*
- *To serve as an intellectual and operational magnet for faculty, staff, students, and visitors*

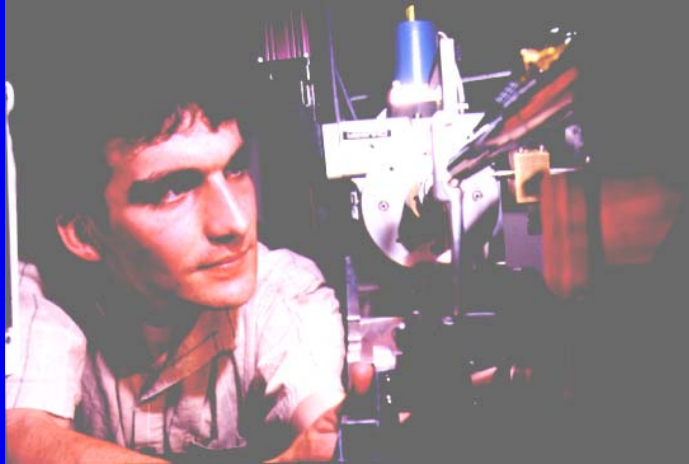
Scientific Program

- *Molecular and Cellular Biology Institute*
- *Biomedical Engineering*
- *Biological Statistics/Computational Biology*
- *Biophysics*
- *Plant Functional Genomics*
- *Vivarium*
- *MATRIX Facility*
- *Learning/Educational Center*
- *Business Incubator*

*Current projected size: ~240,000 gsf
Estimated total program cost: \$140 million*

**Cornell's Unique Approach to the Life Sciences:
Integrating Excellence in Biology with
the Engineering, Physical, and Computational Sciences**

CORNELL



**Comparative Medicine - Mouse as a Model for Human:
Linking to the College of Veterinary Medicine**

CORNELL



**Curing Heritable Diseases:
Linking to the Baker Institute**

CORNELL

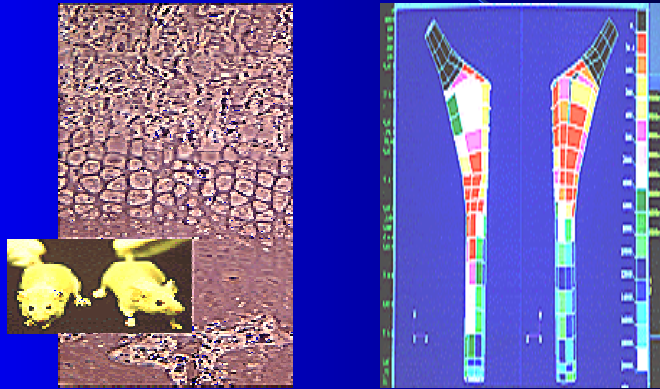


**Nutritional Genomics –
Metabolism and Prenatal Development:
Linking to the College of Human Ecology**

CORNELL

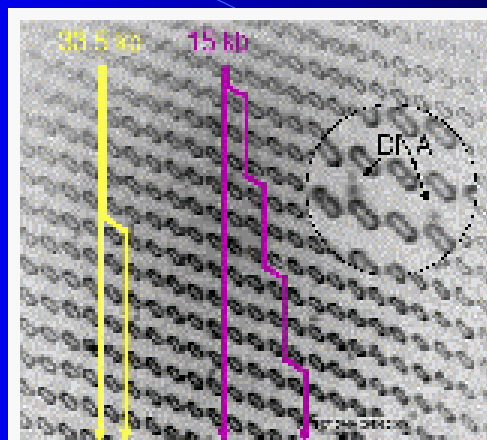


Biomedical and Biomechanical Engineering: Linking to the College of Engineering and The Weill Medical College



Development of Effective Prostheses and Orthopedic Implants

Microanalysis of Biomolecules: Linking to the Center for Nanobiotechnology



DNA separation through
microfabricated pillars



Ethical, Legal, And Social Implications Of Science and Technology: Linking to the CA&S And CA&LS

Science in a Societal Context

A Dialogue between Citizen
And Scientist

Active Involvement

Informed Choice



Evolutionary and Conservation Genomics: Linking CA&S and CA&LS

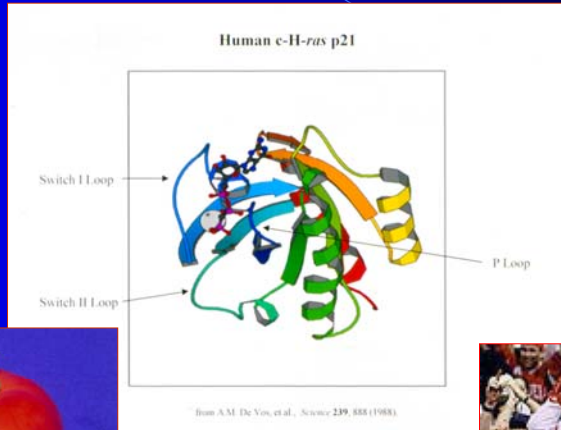
‘Separating the Forest
From the Trees’

Linking Conservation
With Sustainable
Development

Gene ‘Mining’

**Connections -- comparative genomics
building upon the common language of genes
and evolutionary heritage**

CORNELL



**Linking CA&LS
with the
College of Engineering**



CORNELL

**Campus-wide Access to
Cutting-Edge Technology**

Linking Research with
Economic Development

Sharing Capabilities across NY

Rich Undergraduate Educational and Research Experiences

CORNELL

