
National Institutes of Health

FY2005

Senate Appropriations Subcommittee
on Labor/HHS/Education

**Testimony of Elias A. Zerhouni, M.D.
Director, National Institutes of Health**



April 1, 2004

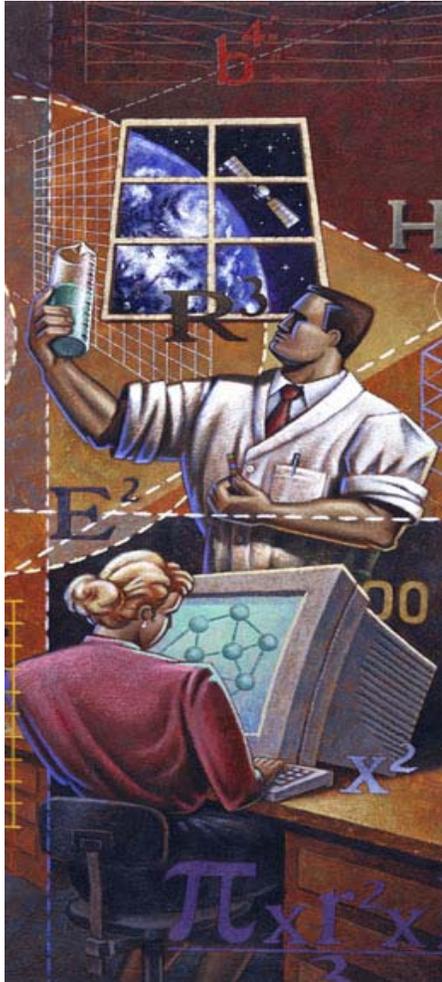


Breakthroughs & Advances

- Developed novel Ebola vaccine and new SARS experimental vaccine
 - Discovered several genes associated with schizophrenia (Ranked #2 scientific advance for 2003)
 - Identification of a new “master switch” gene relating to Type 2 Diabetes
 - Changed the practice paradigm of long term hormone replacement therapy for women
-

New Science Strategies

NIH Roadmap



- Ways to accelerate basic research discoveries and speed translation of those discoveries into clinical practice
- Explicitly address roadblocks that slow the pace of medical research in improving the health of the American people

NEED TO TRANSFORM MEDICAL RESEARCH IN THE 21st CENTURY

■ 20th Century

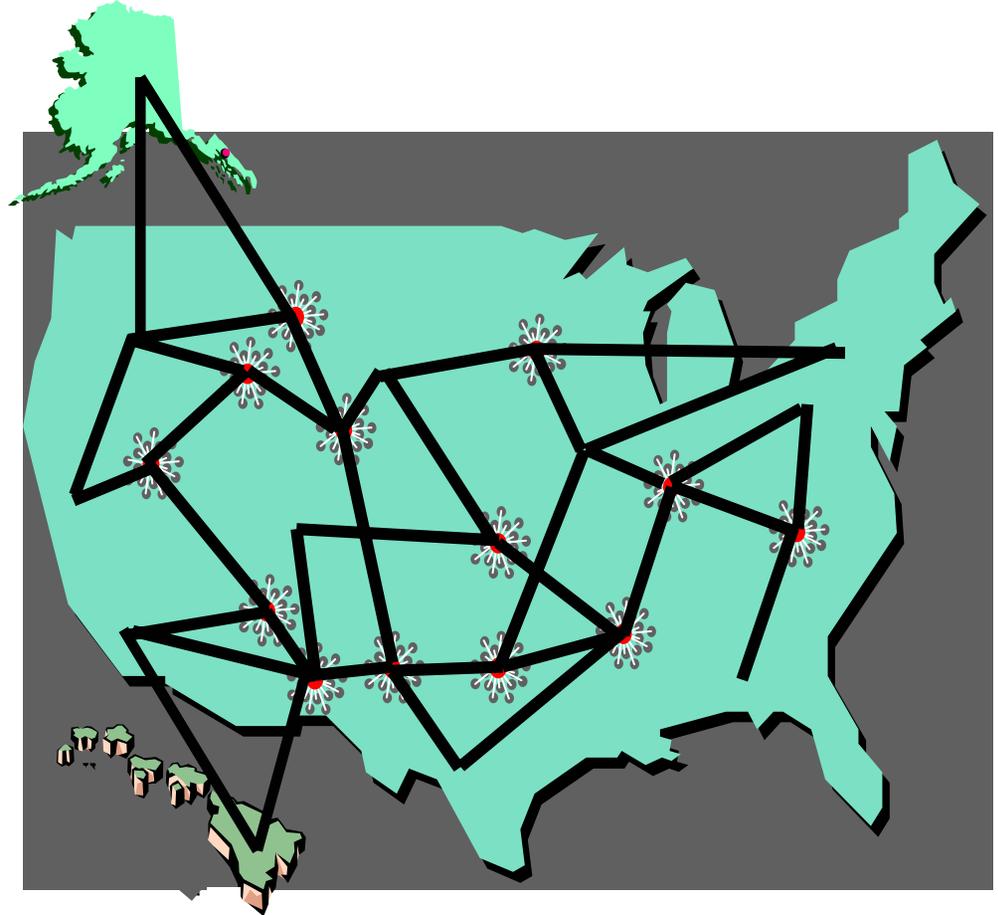
- Treat disease when symptoms appear and normal function has been lost
- WHY: we did not understand the molecular and cellular events leading to disease
- Expensive in financial and disability costs

■ 21st Century

- Intervene before symptoms appear and preserve normal function for as long as possible
- WHY: Better methods and understanding of disease process. Ability to detect patients at risk.
- Orders of magnitude more effective

Integration of Clinical Research Networks

- Link existing networks so clinical studies and trials can be conducted more effectively
- Ensure that patients, health care providers, and scientists form true “Communities of Research”



Roadmap Accelerates Research



Juvenile rheumatic diseases:

Uncommon
hard to study
enough patients

**National Clinical research
networks with trained
Community physicians linked
Regional academic centers**

Identify new
interventions
sooner

Schizophrenia:

First 12 genes identified
Function unknown

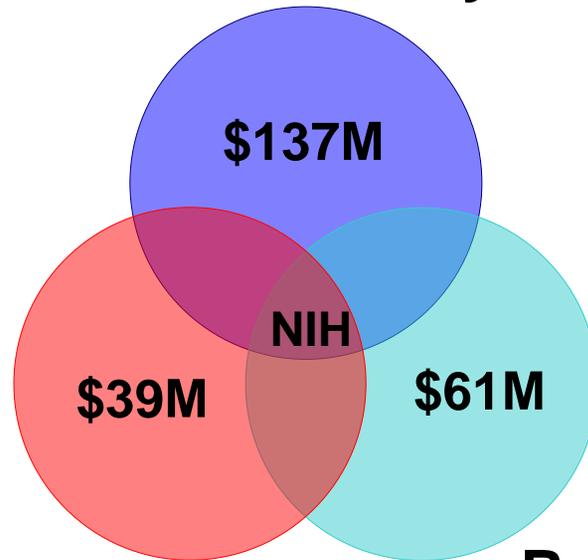
**Molecular Probe
libraries**

New means of early
diagnosis or prevention

NIH Roadmap for Medical Research

FY 2005 Funding= \$237M

New Pathways to Discovery

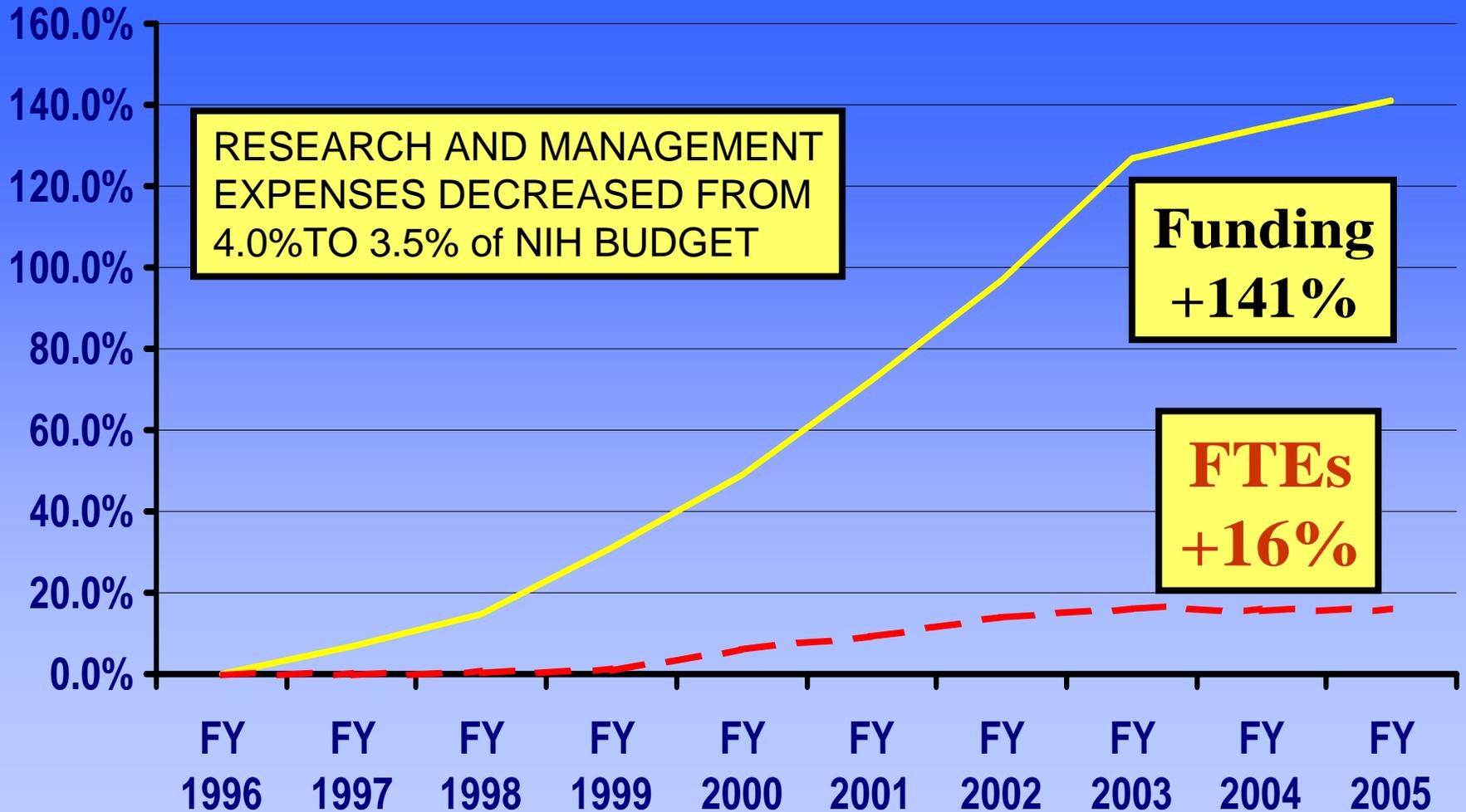


**Research Teams
of the Future**

**Re-engineering the Clinical
Research Enterprise**

MANAGEMENT EXCELLENCE AND STEWARDSHIP

% Increases in Funding and FTEs over FY 1996 Levels



The NIH Budget Request for FY 2005

- **\$28.607B in Discretionary B.A.**

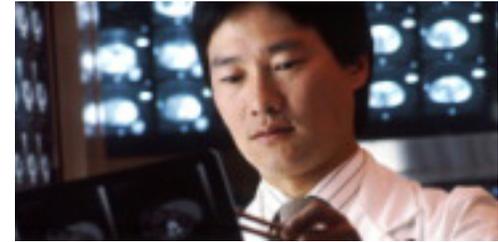
 - (**\$28.527 B from L/HHS/Ed Subcommittee**)

 - (**+ \$729 M and 2.6% over FY 2004**)

- **\$28.805B Total Program Level**

 - Includes \$47M in HHS for Nuclear/Radiological Countermeasures**

 - (**+ \$764 M and 2.7% over FY 2004**)



NIH
Ideas
People
Resources
Leadership

