
National Institutes of Health FY 2005

House Appropriations Subcommittee on Labor/HHS/Education

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

Science Advances, NIH Roadmap, FY2005 Budget

April 21, 2004



Breakthroughs & Advances

- Developed novel Ebola vaccine and 2 new SARS experimental vaccines
 - 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
 - Sequenced the rat genome
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Evolving Public Health Challenges



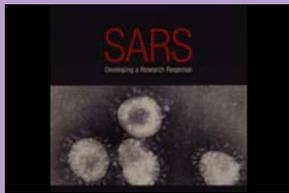
Acute to chronic conditions



Aging Population



Health Disparities



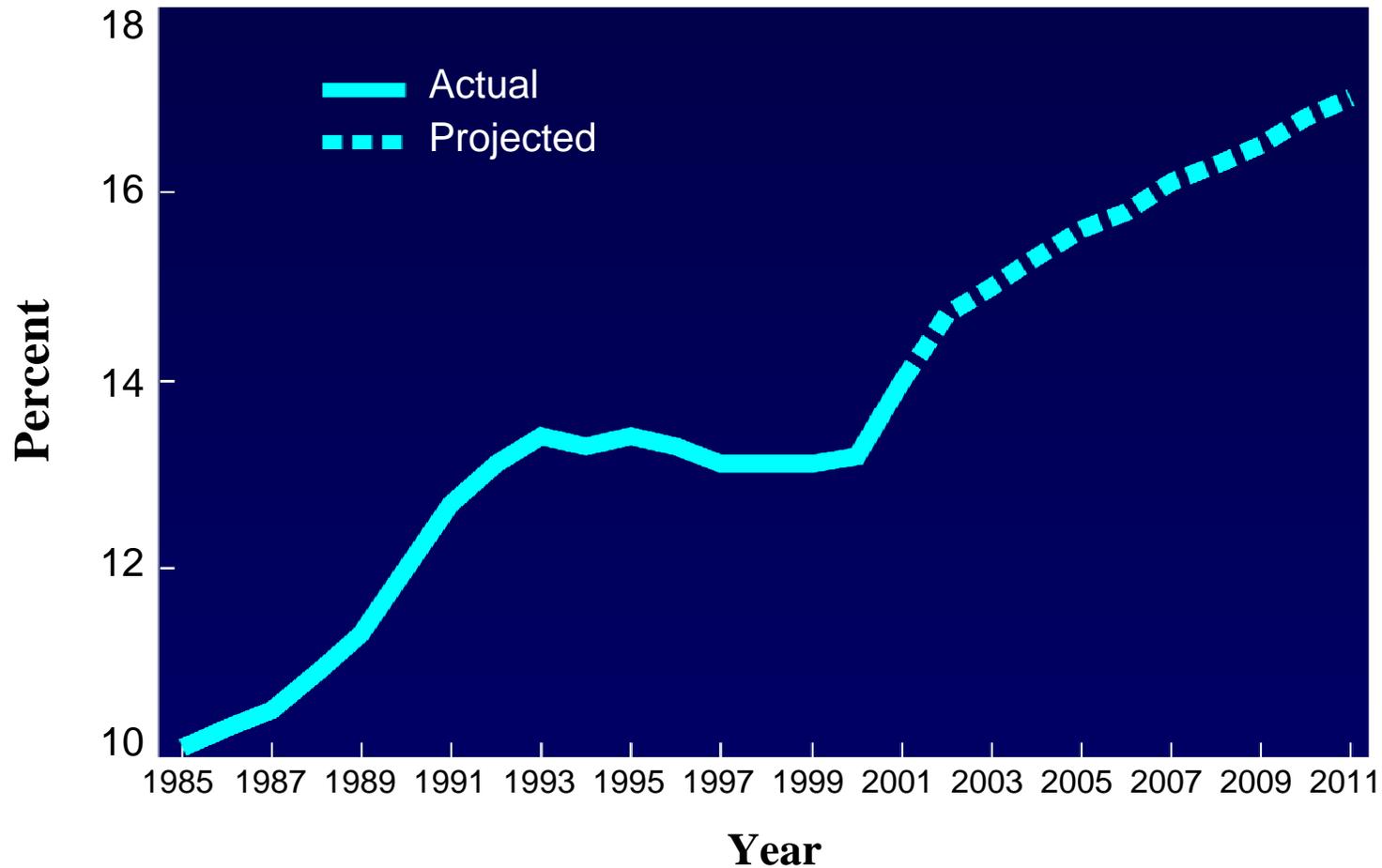
Emerging Diseases



Biodefense

U.S. Health Expenditures

(Percentage of GDP)



NEED TO TRANSFORM MEDICAL RESEARCH IN THE 21st CENTURY

■ 20th Century

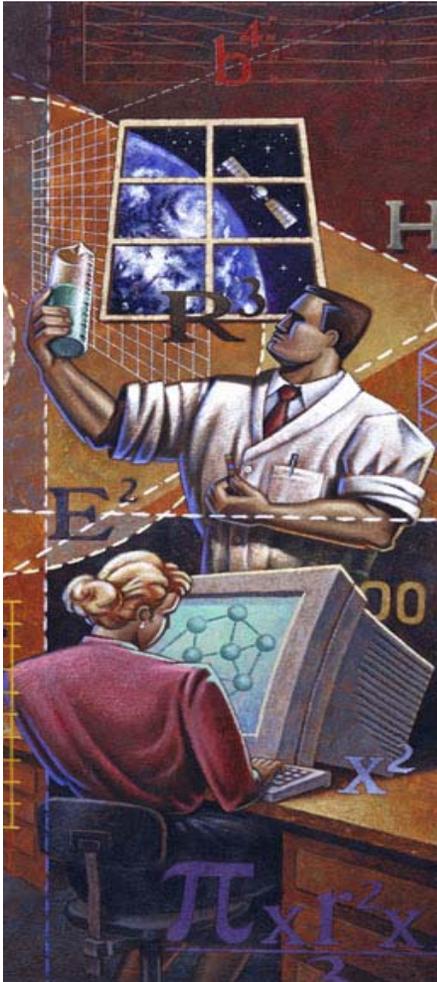
- Treat disease when symptoms appear and normal function has been lost
- WHY: we did not understand the molecular and cellular events leading to disease
- Expensive in financial and disability costs

■ 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
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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
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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:

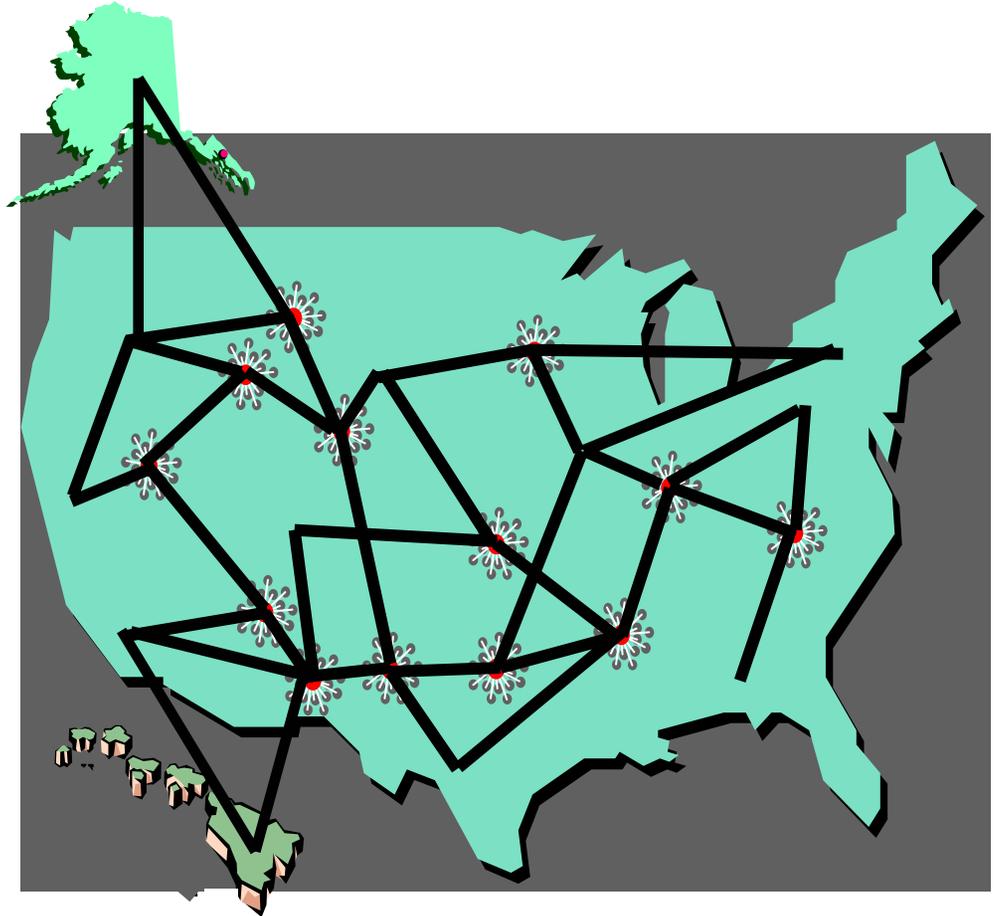
First 12 genes identified
Function unknown

**Molecular Probe
libraries**

New means of early
diagnosis or prevention

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”



ClinicalTrials.gov

A service of the National Institutes of Health

Developed by the National Library of Medicine



Linking patients to medical research

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ClinicalTrials.gov provides regularly updated information about federally and privately supported clinical research in human volunteers. *ClinicalTrials.gov* gives you information about a trial's purpose, who may participate, locations, and phone numbers for more details. Before searching, you may want to [learn more](#) about clinical trials.

Search Clinical Trials

Example: heart attack, Los Angeles

Search

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Search by Specific Information

[Focused Search](#) - search by disease, location, treatment, sponsor...

Roadmap Funding

dollars in millions

	FY04	FY05	FY06	FY07	FY08	FY09	Total
Pathways to Discovery	65	137	169	182	209	188	948
Research Teams	27	39	44	92	96	93	390
Clinical Research	38	61	120	174	214	227	833
Total	130	237	332	448	520	507	2,172

The NIH Director and IC Directors have made the corporate decision to create a common pool of resources that will be used for all current and future investment in the Roadmap initiative

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)
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NIH
Ideas
People
Resources
Leadership

