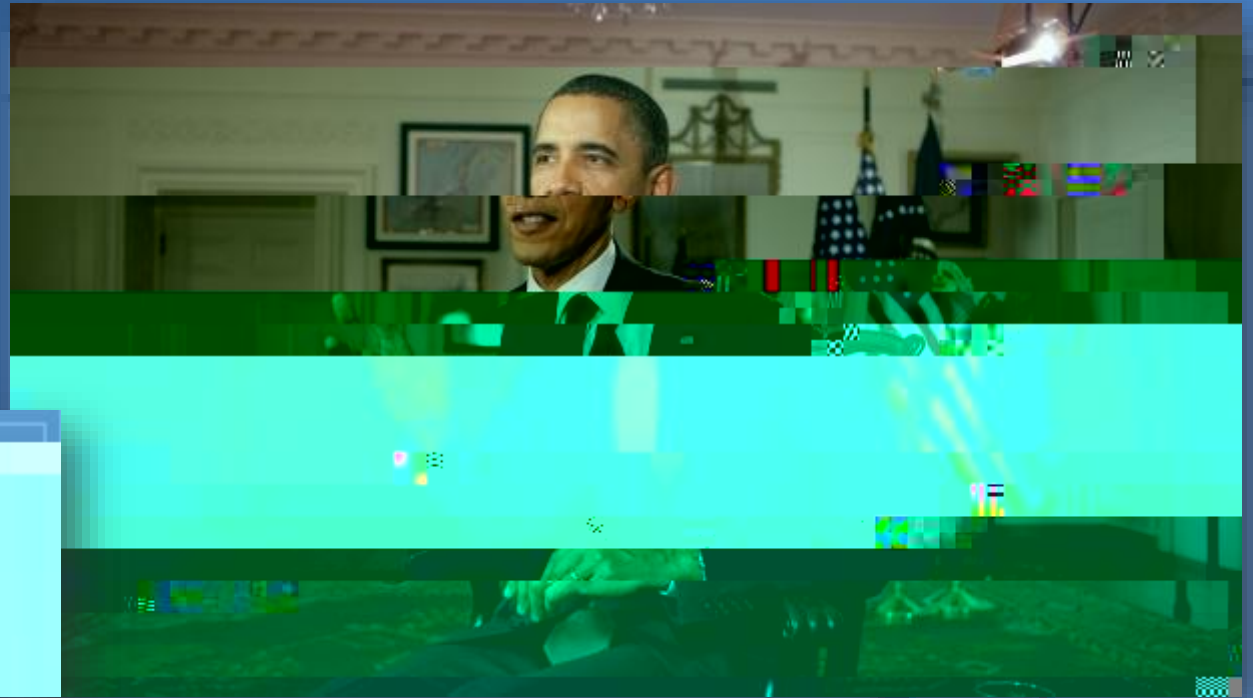


FY 2012 NIH Budget Roll-out

Francis S. Collins, M.D., Ph.D.

Director, NIH

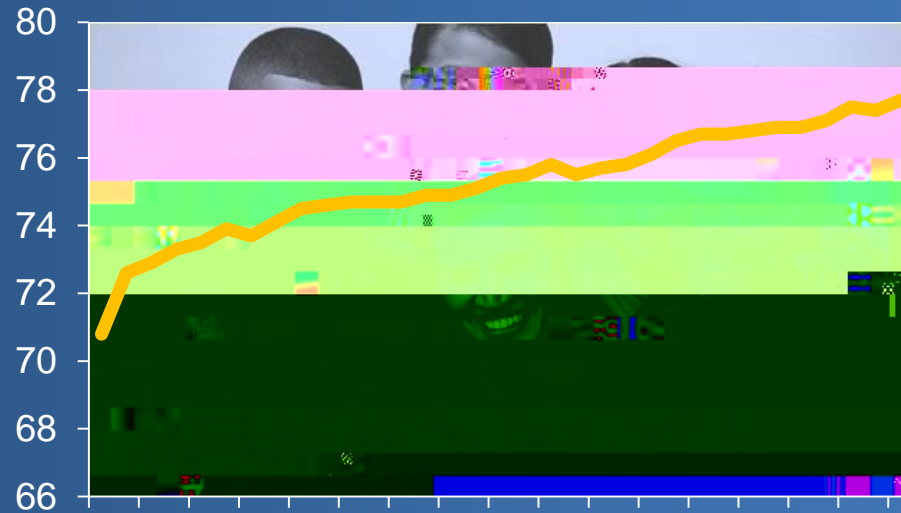




out-educate, out-innovate, and out-build

President Barack Obama, Weekly Address
February 5, 2011

The Benefits of Biomedical and Public Health Advances: *U.S. Life Expectancy*



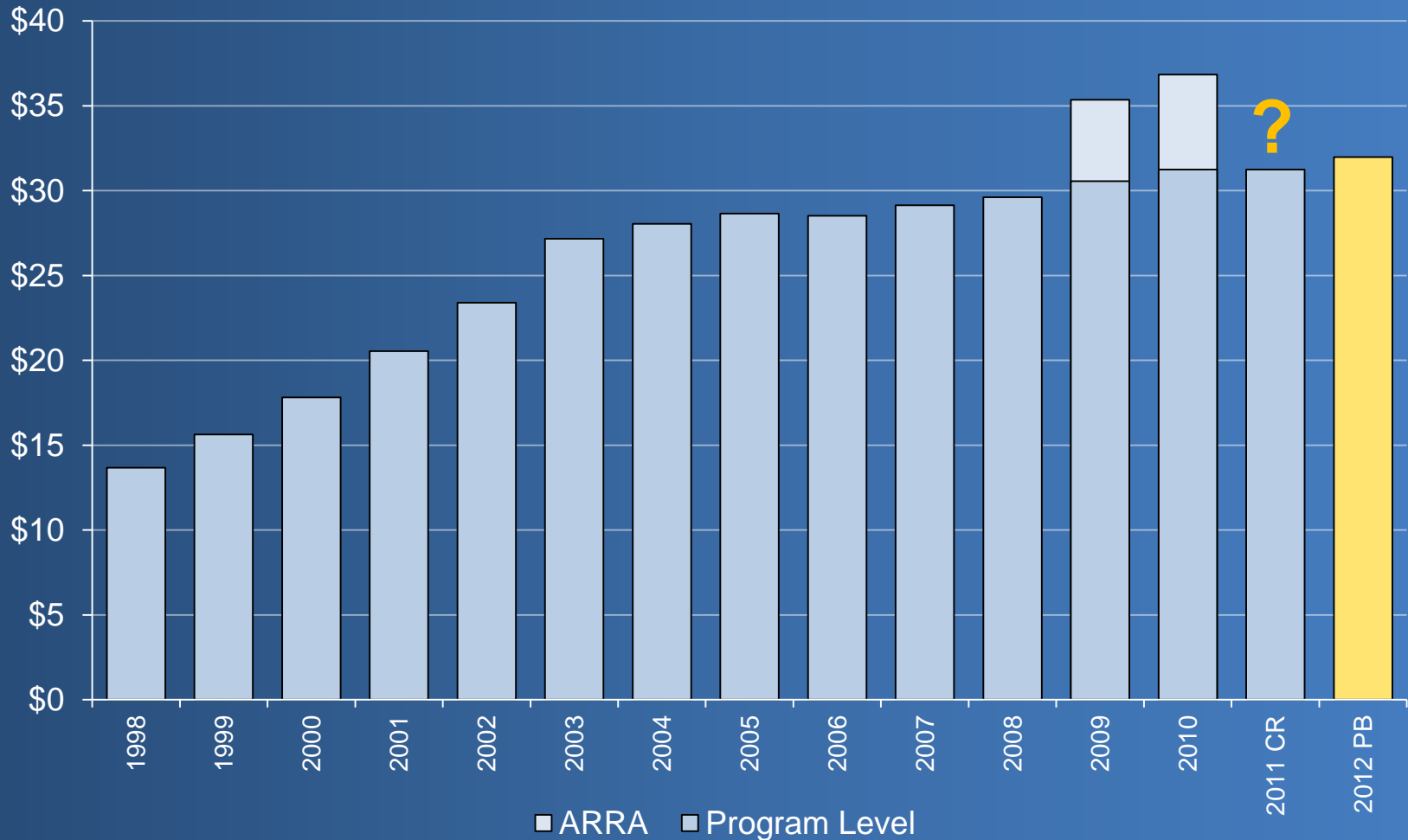
Impact of NIH Funding



NIH FY 2012 President's Budget Request

\$31,987 Million

Increase of \$ 745 M or 2.4% over FY 2010 Actuals

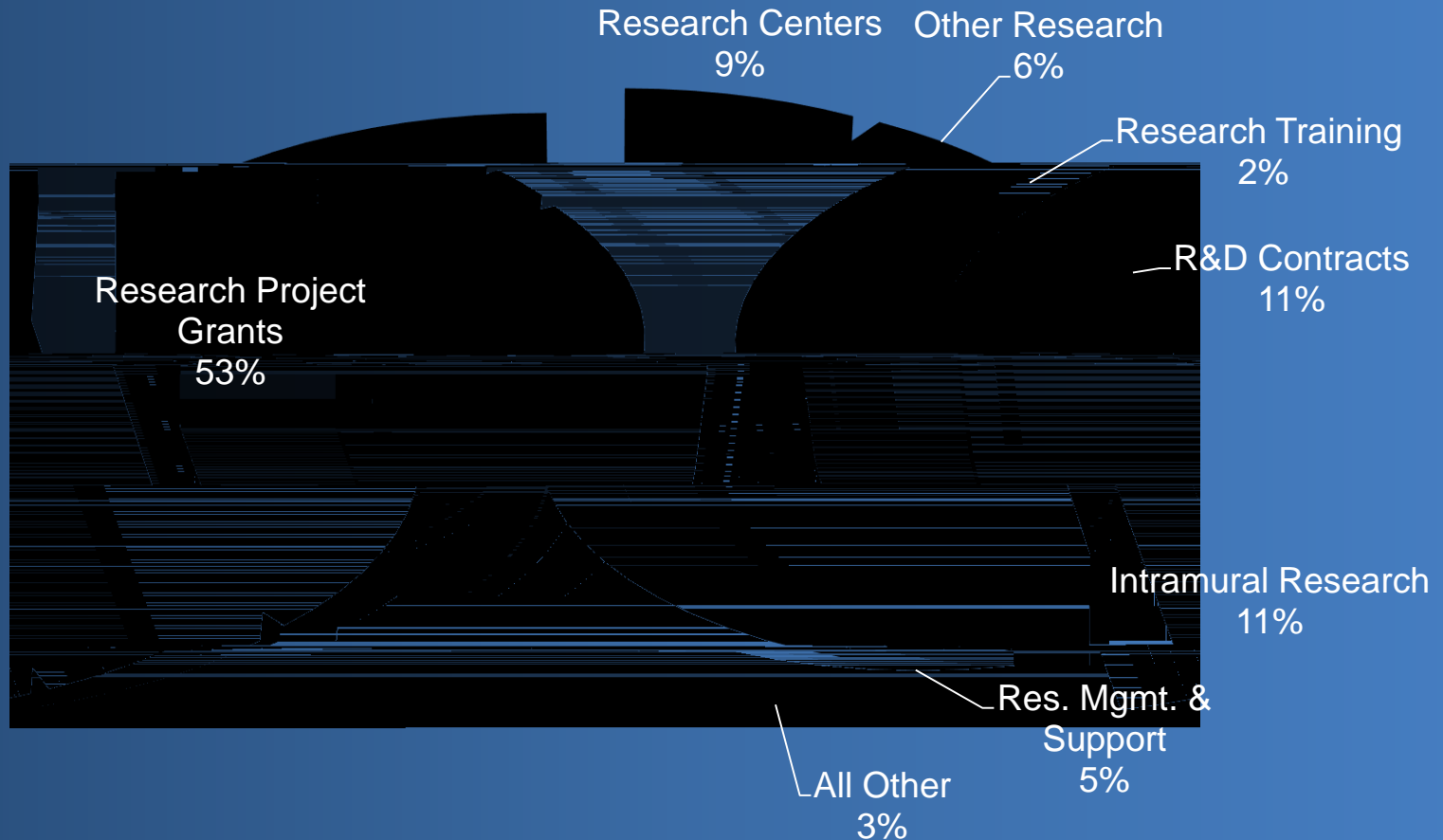


Note: ARRA funds were appropriated in FY 2009

FY 2012 President's Budget Request

NIH Total Program Level

\$31,987 Million



NIH Advances in Basic Research 2010

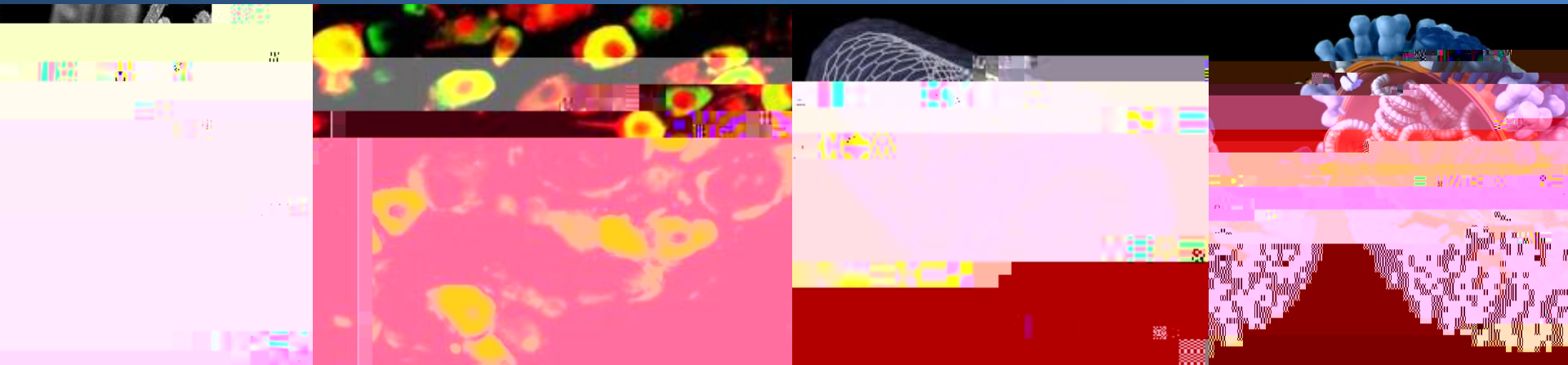
*132 grantees or trainees have become Nobel Laureates
Most Recent: Ei-ichi Negishi of Purdue University*



Demonstration of the power of resolvins to control pain

Creation of better nanotubes for drug delivery

Identification of target for universal flu vaccine



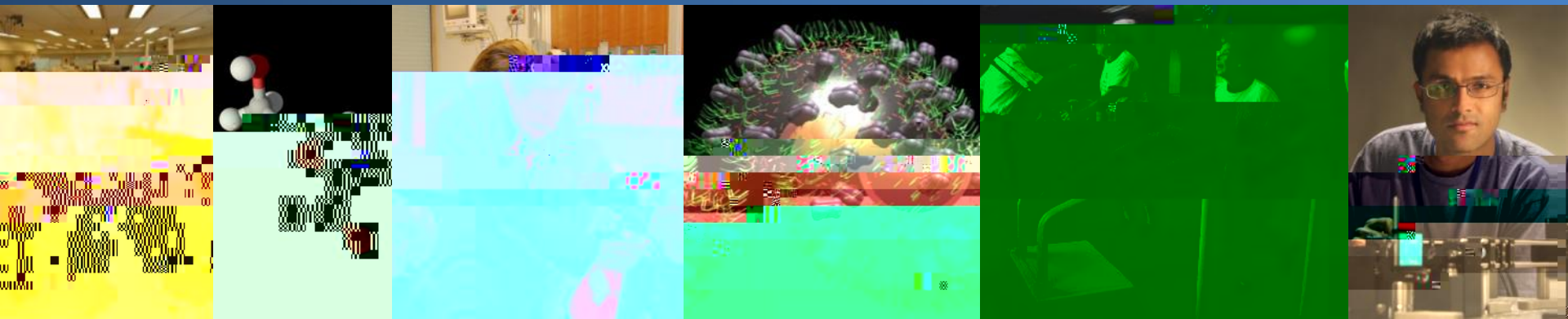
NIH Investments in Innovation — FY 2012

Advancing Translational Sciences

Accelerating Discovery Through Technology

Enhancing the Evidence Base for Health-Care Decisions

Encouraging New Investigators and New Ideas

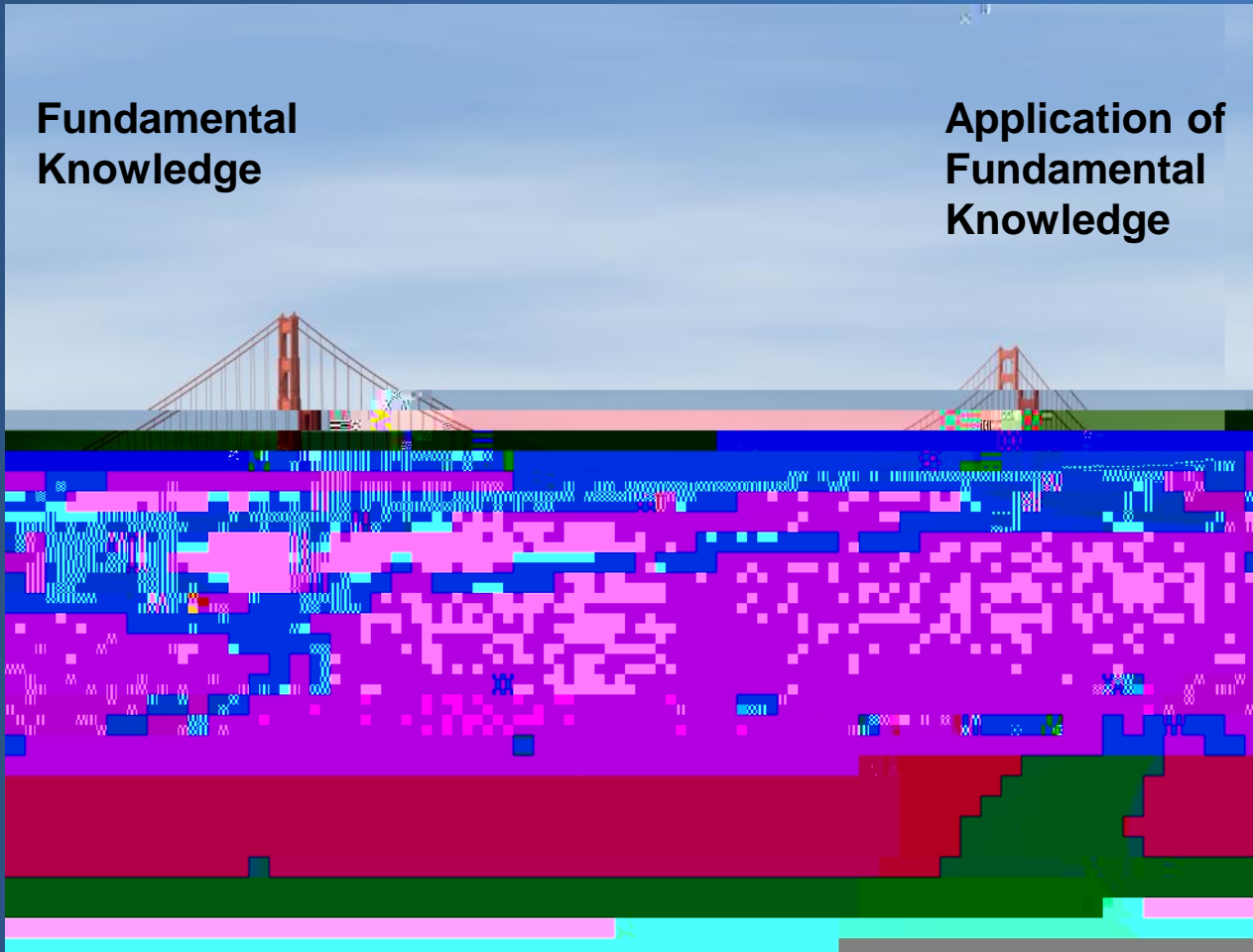


Fundamental



**Fundamental
Knowledge**

**Application of
Fundamental
Knowledge**



SPECIAL ARTICLE

The Role of Public Health

in the Discovery of Drugs and Vaccines

Robert M. Anderson, M.D., M.P.H., and Thomas R. Frieden, M.D., M.P.H. ...
E. J. ...
Vol. 357, No. 1, pp. 1-11, 2007

National Center for Advancing Translational Sciences (NCATS)

Why now? Rationale for Establishment

Deluge of new discoveries of potential targets

Opportunity to serve as a catalyst to further enhance longstanding therapeutic research programs in NIH Institutes and Centers

Opportunity to conduct process engineering on therapeutic development pipeline in an open-access model, to provide innovation, and to identify predictors of success

Unexplored opportunities for therapeutics for many conditions, especially rare and neglected diseases

Reduction in R&D investments in pharma; limited willingness of venture capital to invest in long-term projects

-

through a partnership model with private sector and with effective



NCATS Research Programs

Cures Acceleration Network

Molecular Libraries Program

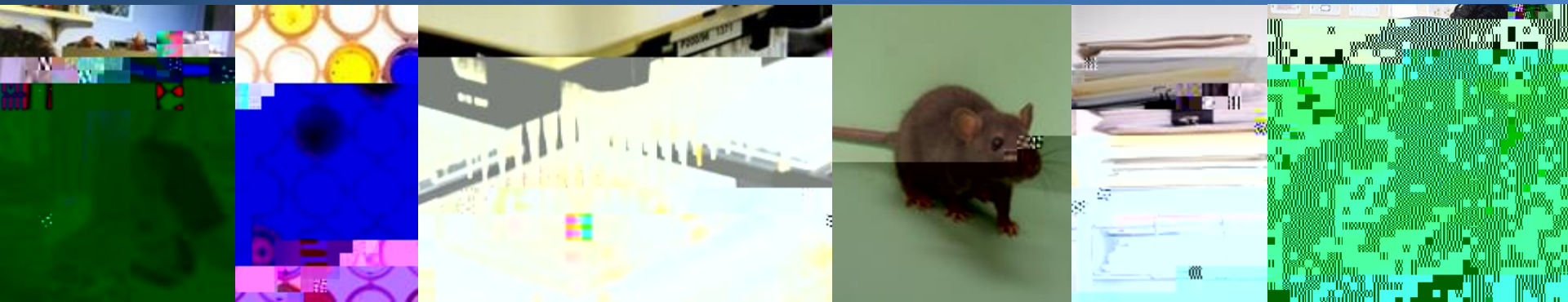
Therapeutics for Rare and Neglected Diseases

Rapid Access to Interventional Development

Clinical and Translational Science Awards

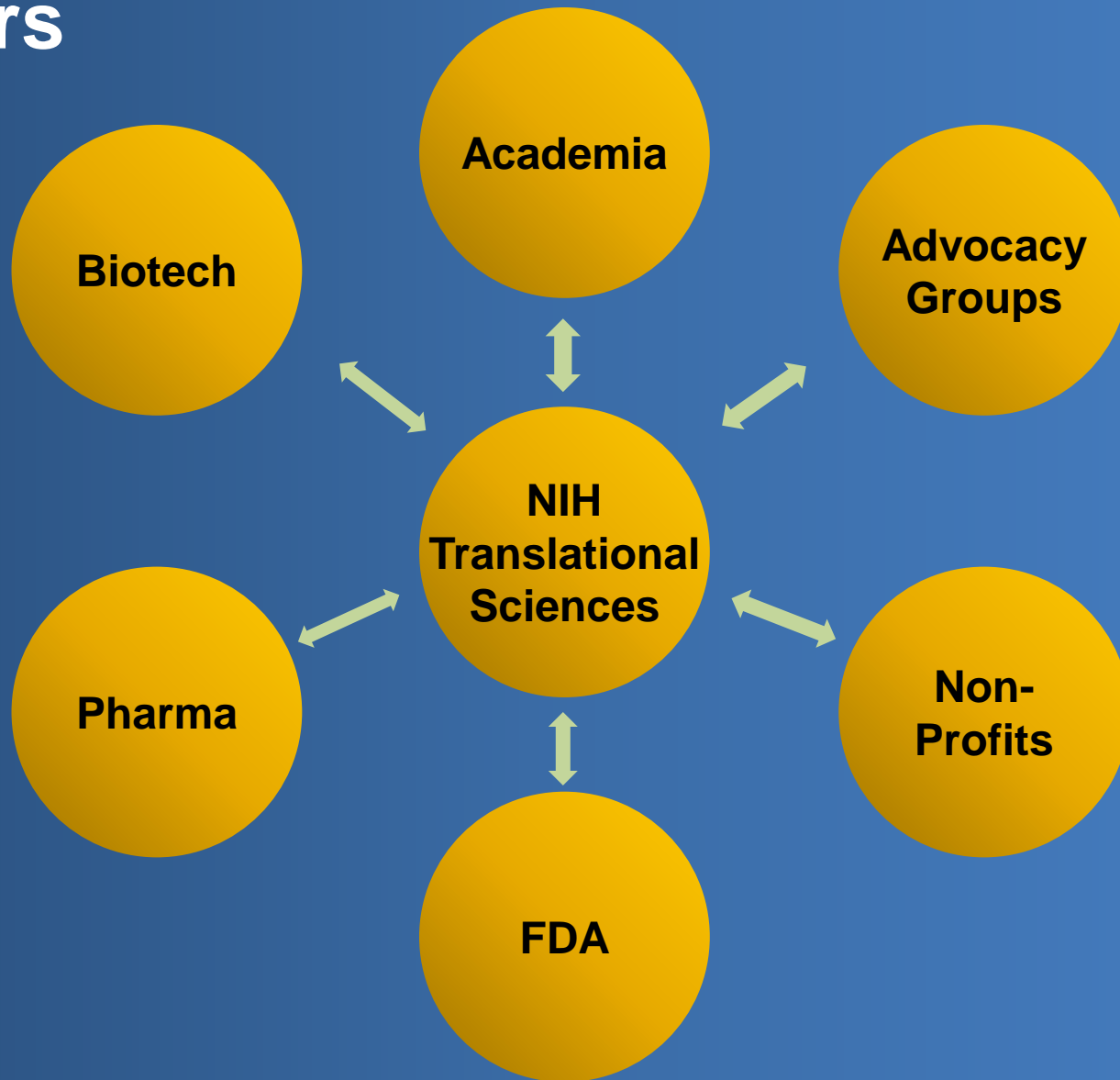
FDA-NIH Regulatory Science

Additional programs identified by NCATS Working Group



A Bold New Paradigm: Cures Acceleration Network

Catalyzing Collaborations With External Partners



Technologies to Accelerate Discovery

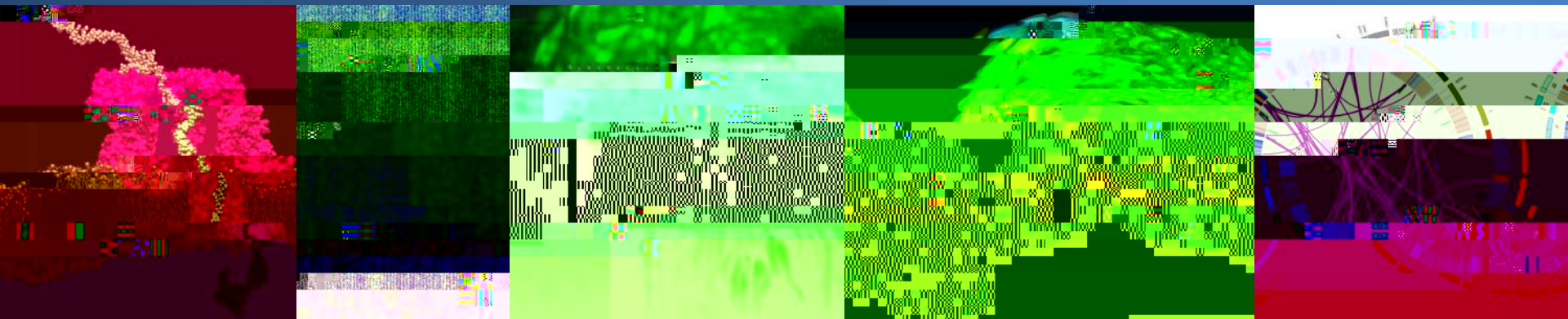
DNA Sequencing

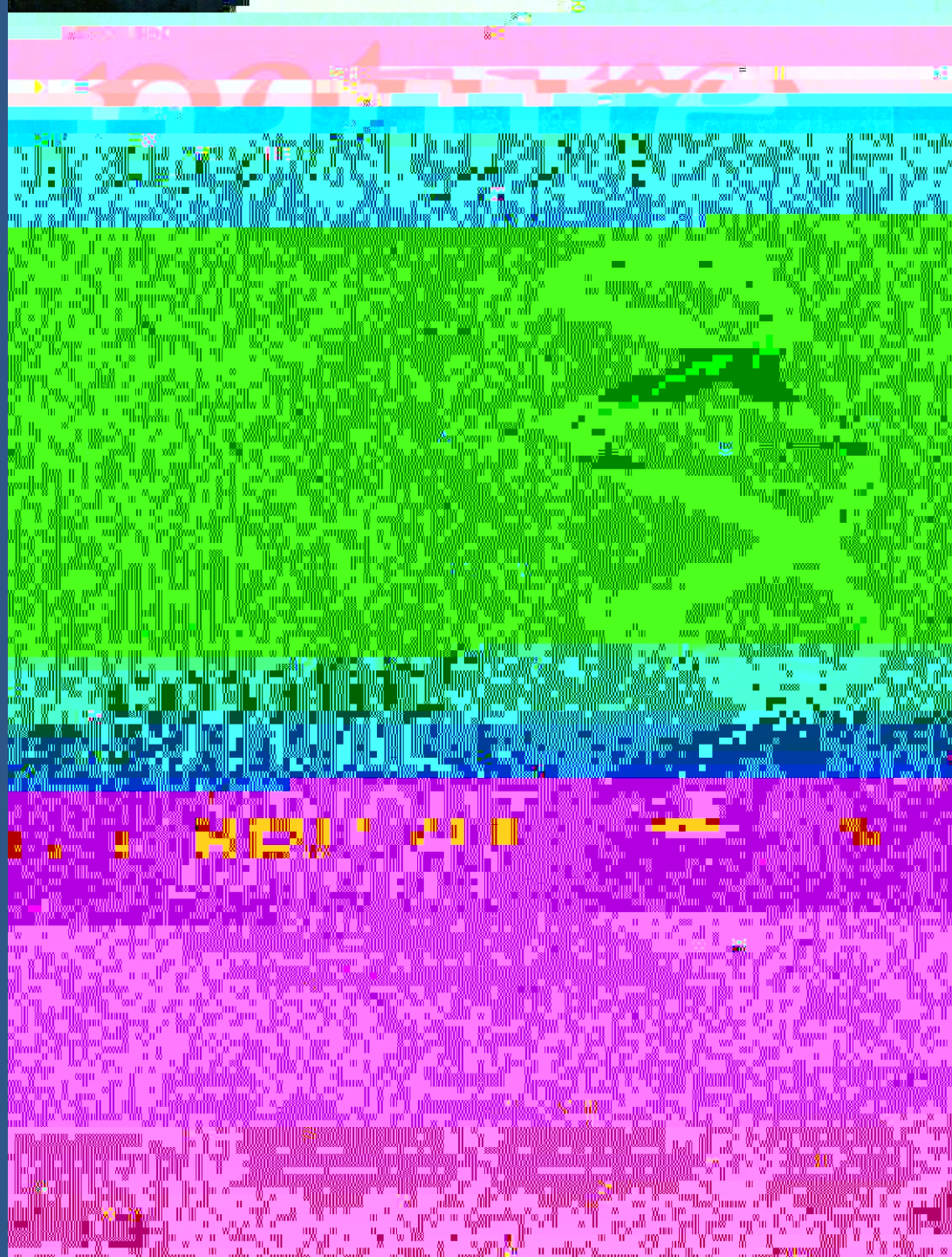
Microarray Technology

Nanotechnology

New Imaging Modalities

Computational Biology





Enhancing the Evidence Base for Health Care Decisions

Prevention

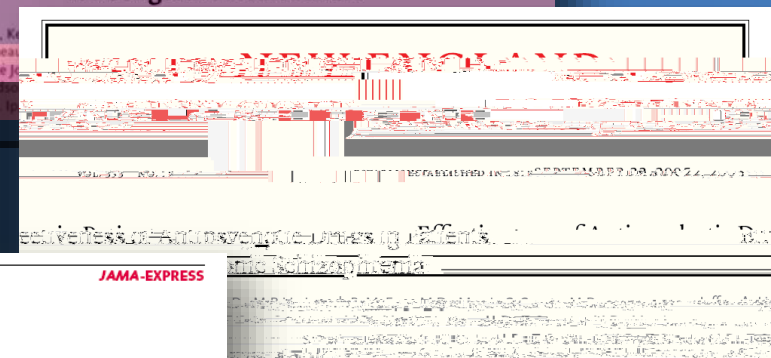
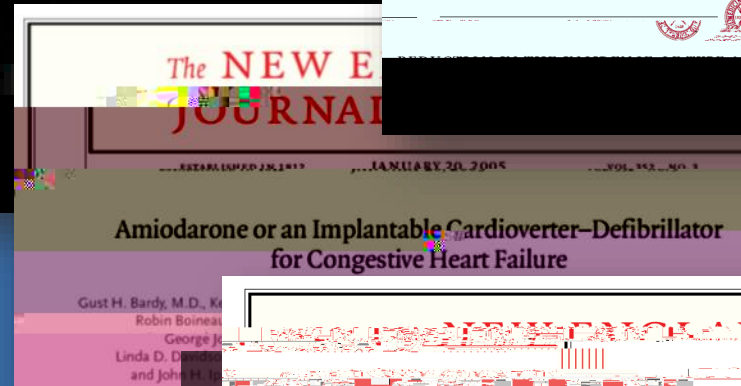
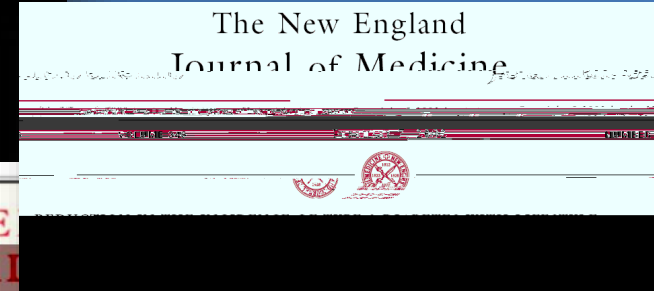
Diagnosis

Treatment

Behavior change

Health systems

Special populations



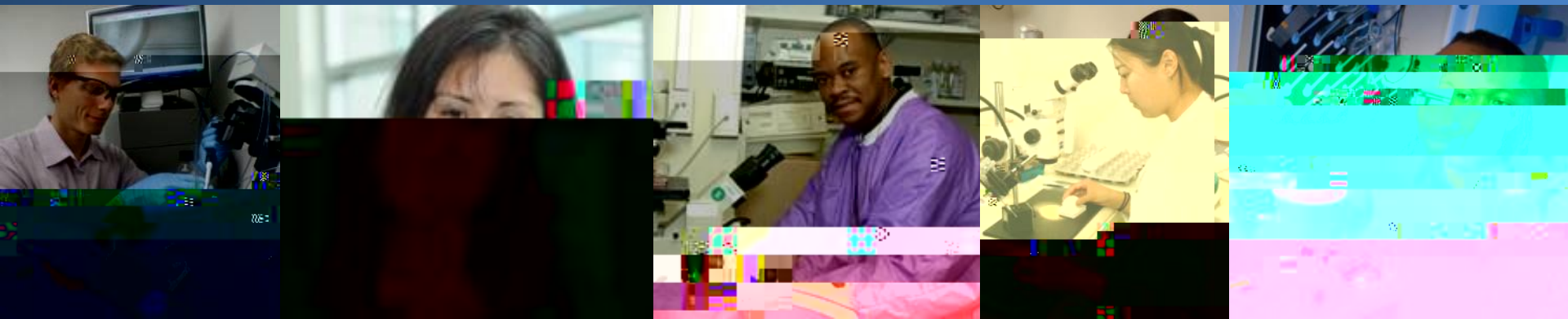
HMO Research Network Collaboratory

New Investigators, New Ideas

Supports exceptionally creative new investigators
Must be pursuing innovative, high-impact projects

Young scientists face a long (and lengthening) path from
graduate trainee to independent researcher

-



NIH... Turning Discovery Into Health

U.S. Department of Health & Human Services
National Institutes of Health

