• Kick-start renewed commitment to bioscience

• Improve the health of America’s people and economy
Over the past two centuries [by far the most prosperous 200 years in human history] as much as \( \frac{1}{2} \) of all economic growth can be traced to advances in health.
Worldwide Life Expectancy Growth

Source: United Nations Development Program
War on Cancer declared - 1971
National Cancer Summit - 1995

Helene Brown
Pioneer in cancer education

Richard Klausner
Director, NCI
1995 - 2001
The March
September 1998
Five Years Following The March: NIH Budget Nearly Doubles

$US billions

Source: National Institutes of Health
Since 2004: NIH Budget Cut in Real Dollars

$US billions

Source: National Institutes of Health
Return on Recent Investments in Bioscience

- Death rates declining for major diseases;
- Immunotherapy will soon replace some chemotherapy;
- Rapid reduction in cost of gene sequencing;
- Greater hope for millions around the world.

*We’re at the dawn of a new scientific revolution!*
In 2011, NIH research funding led to ...

- 432,094 new jobs
- $62 billion in new economic activity in the US
- 500 patent applications worldwide
- 389 patents issued
- Support of 300,000 scientists and researchers at 2,500+ universities and research institutions, and 50,000 competitive grants

Source: Dr. Everett Ehrlich, United for Medical Research (NIH’s Role in Sustaining the U.S. Economy)
U.S. Biomedical Industry Jobs

Private sector jobs in biotech: 1.2 million

- Biopharmaceutical: 284,000
- Medical devices: 409,000
- R&D, testing and labs: 526,000

The average biomedical job pays $79,000, more than 70 percent higher than the nation’s average job.

Source: Milken Institute / BLM 2009
The Federal government invested $3.8 billion in the Human Genome Project from 1990 to 2003. This investment generated an economic output of $796 billion and created 310,000 jobs, representing a 141:1 return on investment.

Source: Batelle (5/11/11 report)
Outlook for Biomedical Research Spending (2012)

Source: OECD - Government Budget Appropriations or Outlays for Research and Development (2012)
“One of the tragedies of science is that many of the most talented people with the best ideas don’t have access to capital.”

- Andrew Serazin
Gates Foundation