

# NIH The U.S. Commitment to Global Health R&D



**THE NATIONAL INSTITUTES OF HEALTH** is the largest source of global health research in the world. NIH-funded research takes place at universities and institutions in all 50 states and through public-private partnerships around the world in 90+ countries, fueling our economy and leading to health breakthroughs that save lives.



**Global Health Research and Development:**  
*working to improve lives at home and abroad.*

## THE NIH IMPACT

- awards **50,000** competitive grants and contracts to **330,000** researchers annually Source: NIH
- every **1** research grant awarded results in **7** new jobs Source: NIH
- more than **80%** of NIH funding supports research at partner institutions Source: NIH
- every **\$1 million** that NIH invests generates **\$2 million** in new state business activity Source: Research!America
- awarded **\$7,538,694** in funding support to global health product development partnerships in 2009 Source: GFinder 2010, Policy Cures

**Failing to fund the NIH adequately would lead to the loss of a generation of scientists dedicated to curing disease, combating rising health care costs, and making Americans and people everywhere healthier.**

“We believe NIH should be funded at a level commensurate with the tremendous potential and importance of basic research. Government-supported basic research is one key to how we collectively progress in discovering novel compounds for addressing patients’ unmet medical needs.”

**JOHN J. CASTELLANI** *President and Chief Executive Officer, Pharmaceutical Research and Manufacturers of America*

## SMART COLLABORATIONS IN GLOBAL HEALTH

### *Product Development Partnerships*



**ZEDA F. ROSENBERG, SCD**  
CHIEF EXECUTIVE OFFICER  
*International Partnership for Microbicides*

**The International Partnership for Microbicides (IPM)** is a global health product development partnership based in Silver Spring, Maryland, with a clinical office in South Africa. With support from NIH, IPM is working with community partners, non-governmental organizations, pharmaceutical companies, clinical research centers and others to develop antiretroviral-based microbicides in the form of gels and long acting rings designed to safely offer women protection against HIV/AIDS — the number one killer of women ages 15-44 around the world. Building on evidence-based practices, IPM, NIH, and their partners are working together to improve our health, contribute to our economy, and offer an affordable new product to save lives.

# Global Health R&D

A SMART THING FOR THE U.S.  
THE RIGHT THING FOR THE WORLD.

## PARTNERING TO SAVE LIVES

Global health R&D partnerships foster success at home and abroad

**PARTNERS** Fogarty International Center, NIH; Georgia Institute of Technology; UC Riverside  
**LOCATION** Fiji  
**GOAL** Find a cure for malaria

**An NIH-funded researcher** at the Georgia Institute of Technology, in collaboration with the University of California at Riverside, has recently obtained a U.S. patent on a new anti-malarial drug developed from a compound found in seaweed discovered in Fiji. In 2008, malaria was present in 108 countries, and more than 1,500 cases were reported in the United States alone. Thanks to support from the NIH and others, research and development of this new drug has the potential to treat or cure a disease that kills more than 800,000 people per year throughout the world, as well as have a significant economic impact right here at home. Source: [http://www.fic.nih.gov/news/publications/global\\_health\\_matters/2011/0411\\_fiji-malaria.htm](http://www.fic.nih.gov/news/publications/global_health_matters/2011/0411_fiji-malaria.htm)

## Global Health Research and Development Progress

*The National Institutes of Health support global health R&D that stimulates job growth at home, promotes a stable global economy and ensures a safer, healthier world. Cross-collaboration between the 27 different institutes at the NIH and other partners allows for leveraged expertise and unique insight as the NIH works to improve health worldwide.*

- ▶ The NIH and DoD's U.S. Army Medical Research Institute of Infectious Diseases collaborate to develop promising vaccines for the deadly Ebola and Marburg viruses to protect against outbreaks and bioterrorism threats.

Sullivan, N.J et. al, Demonstration of Cross-Protective Vaccine Immunity Against an Emerging Pathogenic Ebolavirus Species, PLoS Pathogens, vol 6, issue 5, pp 1-9, 2010.

- ▶ The Joint NIH-FDA Leadership Council ensures early communication and an improved regulatory review process, speeding up the time it takes medicines to get from the lab to patients all over the world.

NIH and FDA Announce Collaborative Initiative to Fast-track Innovations to the Public, 2010.

- ▶ The National Institute of Child Health and Human Development (NICHD) and The National Institute of Allergy and Infectious Diseases (NIAID) recently worked together to research and develop a vaccine for the dengue virus, currently being tested in clinical trials, that could potentially protect people in 100+ countries, including the United States, that report dengue annually.

[http://www.nih.gov/catalyst/2010/10.12.01/catalyst\\_v18i6.pdf](http://www.nih.gov/catalyst/2010/10.12.01/catalyst_v18i6.pdf)

- ▶ NIH research in Australian aboriginals led to the discovery of the Hepatitis B virus and vaccine. Today, all American children are immunized against Hepatitis B with a vaccine which also protects against liver cancer.

NIH Medline Plus – Worldwide Discoveries Help People Everywhere, 2008.

- ▶ All 27 NIH institutes and centers support the Trans-NIH AIDS research program. The world's largest program of its kind, it has led to the development of treatments and advances in prevention that protect families both at home and abroad.

Department of Health and Human Services, National Institutes of Health, Office of AIDS Research Trans-NIH AIDS Research Budget, Congressional Justification for FY 2012.

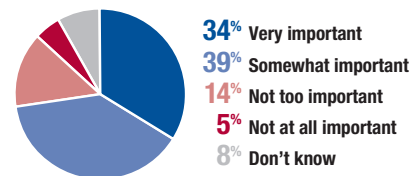
- ▶ Overseen by seven NIH institutes, the Rare Diseases Clinical Research Network conducts groundbreaking research on 95 global rare diseases and has enrolled more than 5,000 subjects in 37 clinical studies since 2003.

<http://www.nih.gov/news/health/oct2009/od-05.htm>

## What Americans are saying about the NIH and R&D

### Americans Believe That Funding for the NIH Should Increase

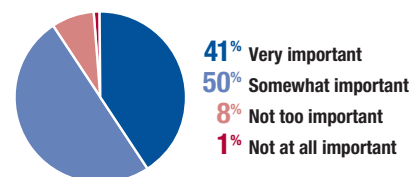
*Federal agencies like the National Institutes of Health play a role in improving the health of Americans through research and development. How important is it to increase funding for the NIH?*



Source: Your Congress – Your Health Survey, March 2011. Charlton Research Company for Research!America

### Most Americans Think R&D is Important to Their State's Economy

*How important do you think research and development is to your state's economy?*



Source: Your Congress – Your Health Survey, March 2011. Charlton Research Company for Research!America

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**Less than one penny of every U.S. health dollar goes toward global health R&D.**