

THE Research

A D V O C A T E

BRINGING RESEARCH CLOSER TO HOME

2012 Advocacy Award Recipients Named

The Food Allergy Initiative; long-time research advocate **Margaret Foti, PhD, MD (h.c.)**;



Margaret Foti, PhD, MD (h.c.)



Sanjay Gupta, MD



Scott Johnson



Donald A.B. Lindberg, MD



Mary Jane Marchisotto

Emmy Award-winning journalist and physician **Sanjay Gupta, MD**; business strategist, entrepreneur and patient advocate **Scott Johnson**; and medical

informatics pioneer **Donald A.B. Lindberg, MD**, have been named recipients of Research!America's 2012 Advocacy Awards.

The Advocacy Awards event will take place on Wednesday, March 14, 2012, at the Andrew W. Mellon Auditorium in Washington, D.C.

The Food Allergy Initiative will receive Research!America's 2012 **Paul G. Rogers Distinguished Organization Advocacy Award** for its campaigns that have led to a significant increase in federal research funding for food allergies and the passage of federal and state food allergy management legislation. The organization will also be honored for its successful efforts to

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House, Senate Release NIH Funding Levels

The fiscal environment is highly volatile, and funding for all discretionary programs, including health research, continues to be at great risk.

On September 20, the Senate Appropriations Subcommittee on Labor, Health and Human Services, Education and Related Agencies (LHHS) released its 2012 funding level for the **National Institutes of Health**. NIH funding was

cut by \$190 million, or 0.6%, from FY11 levels. A day later, the full Senate Appropriations Committee convened; **Sen. Jerry Moran (R-KS)** introduced an amendment to restore NIH funding, but the amendment did not pass.

The House LHHS subcommittee released its funding levels September 29, increasing NIH

funding by \$1 billion over FY11 levels. One crucial difference: The Senate allocated \$20 million for the National Center for Advancing Translational Sciences, while the House provides no funding for the initiative. The House is expected to vote on a continuing resolution (CR) to fund the government through November 18 at levels that are



Sen. Jerry Moran (R-KS)

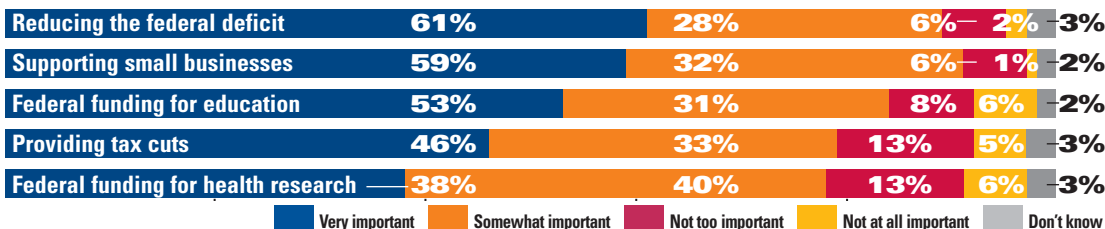
Continued on page 4

AMERICA SPEAKS

How important do you think each of the following is to job creation and the U.S. economy?

SOURCE: YOUR CONGRESS-YOUR HEALTH SURVEY, MARCH 2011, CHARLTON RESEARCH COMPANY FOR RESEARCH!AMERICA

Federal Funding Important for Job Creation & U.S. Economy



New ON THE Web

www.researchamerica.org

The Centers for Disease Control and Prevention has an interactive map that shows grant funding by state: www.cdc.gov/fundingprofiles/FundingProfilesRLA/

The Substance Abuse and Mental Health Services Administration has launched a social media hub, including local resources, Twitter hashtags and more: www.samhsa.gov/socialmedia/socialhealth.aspx

The Online Live Learning Center of the American College of Medical Genetics brings genetics education resources to more health care and research professionals: <http://acmg.sclivelearningcenter.com/>

See **Research!America's** research investment report: www.researchamerica.org/research_investment

THE **Research** ADVOCATE

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About Research!America

Research!America is the nation's largest 501(c)(3) public education and advocacy alliance working to make research to improve health a higher national priority. Founded in 1989, Research!America is supported by member organizations that together represent the voices of more than 125 million Americans. Our public opinion polls, advocacy programs and publications reach the public and decision makers to help advance medical, health and scientific research.



Members TAKE Action



William Schaffner, MD

professionals about prevention, treatment and research of influenza, meningitis and a host of other infectious diseases and conditions.

Public outreach is a major facet of the work of the National Foundation for Infectious Diseases, and those efforts have paid off. NFID's annual news

conference on influenza and pneumococcal disease immunization, for instance, has raised awareness of the importance of prevention.

"It's clear the message has gone to the public—via the media, principally—and the messages are sinking in," said **William Schaffner, MD**, NFID's president and chair of the Department of Preventive Medicine at **Vanderbilt University School of Medicine**.

Schaffner added that many members of the public are now conditioned to seek the flu shot without waiting for instruction from their physician.

National Foundation for Infectious Diseases (NFID)

Founded in 1973, the National Foundation for Infectious Diseases (NFID) aims to educate the public and health care

professionals about prevention, treatment and research of influenza, meningitis and a host of other infectious diseases and conditions.

Further, increasing numbers are immunized at non-traditional locations, like their workplace or a neighborhood pharmacy.

Another major NFID program is continuing medical education, including several courses hosted annually by NFID and its partners for medical professionals, both online and at live events. A three-day course in November will address clinical vaccinology.

"...We're able to work with the whole spectrum of professional societies in context with Research!America."

For NFID, membership in Research!America helps supplement the reach of its own programs.

"The things we do well as a member—we're a small foundation—we're able to work with the whole spectrum of professional societies in context with Research!America," Schaffner said.

For more, visit www.nfid.org.

Research!America Adds Value

FOR OUR MEMBERS

Research!America stands on a reputation of innovative advocacy that generates results serving our mission and the interests of our members:

- Research!America's *U.S. Investment in Health Research* report tabulates cross-sector spending on medical research and tracks spending through the years.
- *Investment in Research Saves Lives and Money*, our ground-breaking fact sheet series produced in partnership with Research!America members, details how medical research benefits patients and the economy across a variety of diseases and conditions.
- Research!America's weekly advocacy messages keep our members, partners and supporters informed of the latest developments from Capitol Hill and ways to effect change to ensure policy that is supportive of research to improve health.
- Polling from Research!America sheds light on Americans' attitudes toward medical research issues. State-specific polling allows greater understanding of Americans' opinions from region to region.

Coverage of U.S. Investment Report

Highlights of Research!America's new *2010 U.S. Investment in Health Research* report were covered by **United Press International**, *The Burrill Report*, BIO's blog BIOtechNow, *The Pharma Letter*, *Surgical Products*, *Cardiovascular Business* and *Healthcare Technology Management*. Research!America's chair, former Congressman **John Edward Porter**, and Research!America's CEO, **Mary Woolley**, were quoted on the importance of increasing the U.S. investment in health research to lower health care costs, improve the quality of care and boost the U.S. economy.

Spotlight on Health Services Research

Herbert Pardes, MD, then-president and CEO of **NewYork-Presbyterian Hospital** and a Research!America board member; **Peter Fine**, president and CEO of **Banner Health**; and **Nick Turkal, MD**, president and CEO of **Aurora Health Care**, authored

a guest post in *The Hill's* Congress Blog on the key role the federal government plays in supporting the health care system and health services research.

In *The Hill's* Healthwatch blog, **Carolyn Clancy, MD**, **Agency for Healthcare Research and Quality** director, said AHRQ has been working for decades to improve patient safety but that the broader health care system has only recently started to move toward a more effective, safer model, based on evidence. She noted that the

Affordable Care Act and other policies aimed at improving the health care system may trigger breakthroughs in patient care.

9/11 and Research

On the 10th anniversary of the 9/11 terrorist attacks, several newspapers and magazines, including the *Boston Globe*, *Slate* and *Scientific American*, reflected on changes in scientific research since 2001. They praised the public and private research sectors for significant strides in biodefense and infectious diseases but stressed that attention should be given to all areas of scientific research.

The Arts of Neuroscientists

The **Dana Alliance for Brain Initiatives** launched an online series featuring neuroscientists who pursue artistic activities outside the lab. The first article profiles **Rudy Tanzi, PhD**, a talented musician and a professor of child neurology at **Harvard Medical School**. Tanzi mentions his performance with **National Institutes of Health** Director **Francis Collins, MD, PhD**, and Aerosmith's **Joe Perry** at the 2009 Rock Stars of Science event organized by the **Geoffrey Beene Foundation** and Research!America.

The New Research Philanthropists

Bloomberg News reported that the research philanthropy model is changing. Benefactors like **Bill and Melinda Gates**, founders of the **Bill & Melinda Gates Foundation**, and **Garen and Shari Staglin**, founders of the **International Mental Health Research Organization**, are now taking a direct role in early drug research and staying involved throughout the research process.



Soon the Nobel Prizes will be announced. Will policy makers be talking about their pride in the American (we trust and hope) recipients? If the

recent past is any indication, the answer is no. These most prestigious awards are not well recognized by Americans, thus not much noted by our elected representatives. Indeed, most Americans cannot name a living scientist. Every member of the research community should take this opportunity to make a phone call, send an email or write a letter to the editor to call attention to the awards and the importance of maintaining strong support of science in this country. Doing so, you put a human face—yours—on science.

Advocacy makes a difference in good times and bad—and can make a huge difference in unpredictable times. So much is changing before our eyes: Predictable processes and timetables have been thrown to the wind; gauntlets are thrown down daily by political leaders; the supercommittee's legislated charge is being rhetorically co-opted; in the midst of Congress' markups and continuing resolutions are dire economic indicators and market swings and polls showing low regard for the processes and people of our government. This is a time when advocates can be heard and can have—if organized and on message—more impact than in times of "regular order."

Research!America is determined to have an impact. Please stay connected: Keep informed via my now-weekly letters; get involved via one or more of our initiatives. We are navigating uncharted waters; we need more hands on deck and more wind beneath our sails. Your help is vital!

Mary Woolley



Carolyn Clancy, MD



Herbert Pardes, MD



Rudy Tanzi, PhD

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White House Updates

Continued from page 1

agreed to in August's Budget Control Act—funding levels that are nearly identical to those enacted in FY11.

In a recent Senate appropriations subcommittee markup, funding for the **National Science Foundation** was cut by 2.4% (\$162 million) from FY11 levels. The House earlier released a bill that flat-funded NSF.

The supercommittee is also continuing its work on deficit reduction with a deadline of October 14 to unveil recommendations. If these do not pass both Houses of Congress by December 23, deep discretionary spending cuts will be triggered beginning in January 2013.

The recent NIH cuts proposed by the Senate show that policy makers need to hear from advocates. Protecting these programs requires that we step up our advocacy efforts. Make sure Congress understands that medical research matters to Americans and that cutting research funding is the wrong medicine for this country. *Learn what you can do at www.researchamerica.org/advocacy.*

White House Initiatives

On September 16, **President Barack Obama** signed the America Invents Act, a major overhaul of the U.S. patent system. Among its key provisions, the legislation enables the **U.S. Patent and Trademark Office** to hire more staff to help reduce the significant backlog in patent applications.

At the same time, the White House announced several initiatives aimed at moving ideas from the lab into the marketplace. The administration will develop a Bioeconomy Blueprint that will outline how biological research can enhance our nation's competitiveness. The focus will be on strategic R&D investments, reforms to facilitate commercialization, easing regulatory burdens on innovators and enhancing workforce development for scientists and engineers.

The White House will also be working with the **Association of American Universities** and the **Association of Public and Land-grant Universities** on a commercialization initiative. The goal is to enhance university-industry collaboration in order to foster entrepreneurship and economic development.

CPH Foundation

The CPH Foundation has announced the winners of its 2011 Unsung Heroes of Public Health: **Luis Garcia, PsyD**, a psychologist in the Los Angeles area, won The Rock in the Pond Award; **Lynn Silver, MD, MPH**, of the New York City Department of Health and Mental Hygiene, won The Wavemaker Award; and **Liz Szabo**, medical news reporter for *USA Today*, won the inaugural Excellence in Media Award.

Marjorie Lunsford, a rural area family nurse practitioner in Tennessee, was named an honorable mention for The Rock in the Pond award.

The awardees will be honored at a reception in Washington, DC, on October 26. For more information on the winners and the reception, visit www.cphfoundation.org.

2012 FEDERAL RESEARCH BUDGET

Agency	C.R. for FY11	Senate Appropriations	2012 R/A Recommendation
National Institutes of Health	\$30.2 billion	\$30.5 billion	\$35 billion
Centers for Disease Control and Prevention*	\$5.7 billion	\$5.76 billion	\$7.7 billion
National Science Foundation	\$6.8 billion	\$6.7 billion	\$7.76 billion
Agency for Healthcare Research and Quality	\$372 million	\$372 million	\$405 million

* Reflects the CDC core program budget.

U.S. Investment in Health Research Report Released

U.S. spending on health research increased slightly in 2010, according to a new analysis from Research!America.

The annual *U.S. Investment in Health Research Report* (see insert) found that the \$140.5 billion spent on health research last year is about a 1% increase from 2009. However, that amount lags the 2.8% increase in the cost of conducting health research.

Among the top sectors funding research, results were mixed. Industry research increased 2.9% to \$76.5 billion, largely fueled by the pharmaceutical industry's 14.6% increase in research spending. Federally funded research, however, decreased by a substantial \$550 million.

Alliance for a Stronger FDA Ad Targets Lawmakers



In the days before a Senate appropriations subcommittee began marking up FY12 funding, the **Alliance for a Stronger FDA** and 75 other organizations reminded the subcommittee of the importance of full funding for the **Food and Drug Administration**.

An ad produced by the Alliance noted that the FDA regulates products that comprise more than 20% of U.S. consumer spending, and in science-based industries that are key to our nation's growth and prosperity.

A wide range of groups, including Research!America and several of its members, signed on in support of the ad. See the ad at <http://strengthenfda.org/>.

SPECIAL THANKS TO NEW AND RENEWING RESEARCH!AMERICA ALLIANCE MEMBERS

NEW MEMBERS

Booz Allen Hamilton

RENEWING MEMBERS

American Dental Association
American Psychiatric Association
American Society of Clinical Oncology
Association of Medical School Pharmacology Chairs
Baylor College of Medicine
The Brody School of Medicine at East Carolina University
Case Western Reserve University
FasterCures
Friends of the National Institute of Nursing Research
David Geffen School of Medicine at UCLA
Genetics Society of America
Harvard Medical School
Heat Transfer Research, Inc.
Johnson & Johnson
Kidney Cancer Association
The Leukemia & Lymphoma Society
The Medical College of Wisconsin
New Jersey Association for Biomedical Research
Ohio University College of Osteopathic Medicine
Herman Ostrow School of Dentistry of University of Southern California
Purdue Pharma, L.P.
Damon Runyon Cancer Research Foundation
University of Maryland, Baltimore
The University of Texas M.D. Anderson Cancer Center
The University of Texas Southwestern Medical Center
Van Andel Research Institute
Yale University School of Medicine

Not yet a member? Join Research!America today at www.researchamerica.org/supportourwork

RESEARCH!AMERICA EXTENDS SPECIAL THANKS TO OUR PRINCIPAL PARTNERS

2011-2012 YOUR CANDIDATES-YOUR HEALTH

Alzheimer's Association
American Heart Association
American Association of Colleges of Pharmacy
Charles Drew University of Medicine & Science
Howard Hughes Medical Institute
The Leukemia

& Lymphoma Society
Lovelace Respiratory Research Institute
Northeast Ohio Medical University
Washington University in St. Louis School of Medicine

THOUGHT LEADERS ASSEMBLY

United Health Foundation
ADVOCACY AWARDS
Alzheimer's Association

AMERICA SPEAKS-POLL DATA SUMMARY
United Health Foundation
PREMATURITY FACT SHEET
March of Dimes

PAIN FACT SHEET

Endo Pharmaceuticals

2011 SCIENCE AND THE MEDIA FORUMS
Pfizer, Inc.

Visit www.researchamerica.org/partnership_opportunities for ways to support Research!America.

2012 Advocacy Awards Recipients Named

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educate the public about food allergies. FAI Executive Director **Mary Jane Marchisotto** will accept the award on behalf of the organization.

Foti, CEO of the **American Association for Cancer Research**, will be honored with Research!America's 2012 **Raymond and Beverly Sackler Award for Sustained National Leadership**. In her 30-year tenure, she has carved out a leadership role for AACR in the science policy arena through her effective and tireless advo-

cacy for federal research funding.

Gupta, the Emmy Award-winning chief medical correspondent for CNN, will be honored with Research!America's 2012 **Isadore Rosenfeld Award for Impact on Public Opinion** for highlighting the importance of medical and health research and adding clarity and context to research-related issues through his reporting on international health and medical news.

Johnson, president and founder of the **Myelin Repair Foundation**, will receive Research!America's 2012 **Gordon and Llura Gund Leadership Award** for his leadership in founding MRF, implementing a new model at

MRF to more rapidly deliver treatments to patients with chronic diseases, and raising the visibility of research for neurological diseases.

Lindberg, director of the **National Library of Medicine** and founding director of the NLM's **National Coordination Office for High Performance Computing and Communications**, will receive Research!America's 2012 **Builders of Science Award** for pioneering the application of computer technology to health care and life science research, helping to revolutionize the field of medicine.

Visit www.researchamerica.org/advocacy_awards for more details.

Did YOU Know

Ada Sue Hinshaw, PhD, RN, dean, Graduate School of Nursing, **Uniformed Services University of the Health Sciences**, has been named to the 2011 class of Living Legends by the **American Academy of Nursing**.

The **National Cancer Institute** is accepting grant applications for its 24 Provocative Questions project. See <http://provocativequestions.nci.nih.gov/>.

The 2011 Lasker Award recipients have been announced: **Franz-Ulrich Hartl, MD**, of the **Max Planck Institute of Biochemistry** and **Arthur L. Horwich, MD**, of the **Yale University School of Medicine** received the Albert Lasker Basic Medical Research Award; **Dr. Tu Youyou** of the **China Academy of Chinese Medical Sciences** received the Lasker-DeBakey Clinical Medical Research Award; and the **Clinical Center at the National Institutes of Health** received the Lasker-Bloomberg Public Service Award for serving as a model research hospital, providing innovative therapy and producing outstanding physician-scientists.

Milken Institute: U.S. Research Leadership at Risk

The U.S. remains the world leader in biomedical research, clinical testing and manufacturing, but other countries—established and up-and-coming—are gaining quickly, according to a new report from **The Milken Institute**.

The report offers seven steps policy makers can take to keep America at the front: increase and make permanent R&D tax incentives; cut corporate tax rates to match the **Organisation for Economic Co-operation and Development** average; enhance support for emerging fields; provide adequate resources for the **National Institutes of Health** and the **Food and Drug Administration**; leverage existing strengths in medical devices; build human capital; and promote and expand the role of universities.

The report, funded in part by the **Council for American Medical Innovation**, is online at www.milkeninstitute.org.

Research!America Hosts Thought Leaders Assembly

With support from the **United Health Foundation**, Research!America brought together members of its Board of Directors and other thought leaders for a discussion of challenges and opportunities that lie ahead for researchers, research institutions and research advocates.

The consensus of the participants is that research performed by both the public and private sector is at a crossroads. With declining federal funding and increasing regulatory costs, and congressional ambivalence concerning both, it is critical to mobilize all stakeholders—researchers, patients and the public alike—to fight for research.

Panelists believe that there is a critical lack of public knowledge about the **National Institutes of Health** and how the agency is funded—even among health professionals. The panel also believed that the **Department of Defense** will have an increasingly large role in health research as veterans age and current service members return from conflicts abroad.

Low Enrollment, Disparities in Cancer Studies

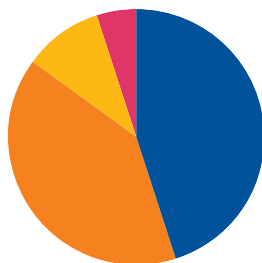
A study in the journal *Annals of Surgery* found only around six in 1,000 cancer patients had participated in a clinical trial and that they tended to be younger and white. **Waddah Al-Refaie, MD**, of the **University of Minnesota** and the study's lead author, analyzed a cancer registry in California to produce the numbers.

"The rate is abysmally low," Canadian cancer researcher **Monika Krzyzanowska, MD, MPH**, told **Reuters**.

Whether the low rate was due to lack of clinical trials available or patients' reluctance to join them was unclear. The study did not examine the reasons for the low numbers.

AMERICA SPEAKS

Certain health issues are more prevalent among people with lower incomes and among certain racial and ethnic populations. How important do you feel it is to conduct research to understand and eliminate these differences and achieve health equity?



Most Believe Research for Health Equity is Important

Very important	45%
Somewhat important	40%
Not too important	10%
Not at all important	5%

SOURCE: **YOUR CONGRESS-YOUR HEALTH** SURVEY, MARCH 2011, CHARLTON RESEARCH COMPANY FOR RESEARCH!AMERICA

NIH Announces Medical Research Scholars Program

The **National Institutes of Health** will accept 40 promising students in its new Medical Research Scholars Program. Medical and dental students will get the chance to join researchers in NIH's basic research labs and in clinical and translational studies at the NIH Clinical Center. Applications for 2012 are accepted through January.



Francis S. Collins, MD, PhD

The program is made possible by a partnership with the **Foundation for the National Institutes of Health**, a grant from **Pfizer** and contributions from the **Howard Hughes Medical Institute**. All are Research!America members.

NIH Director **Francis S. Collins, MD, PhD**, said, "The program will offer a broad range of exceptional research opportunities, exposure to cutting edge technology and critical policy issues for promising students."

FDA Launches New Training for Device Reviewers

The **Food and Drug Administration** announced a new Reviewer Certification Program to improve medical device reviews. The program, which will include all reviewers at FDA's **Center for Devices and Radiological Health**, will cover law and regulatory topics, the CDRH review process, device design and how human factors impact devices.

Said CDRH Director **Jeffrey Shuren, MD, JD**, "This investment will improve the quality of submission review and make the process more consistent and predictable."

FDA also announced a pilot Experiential Learning Program to take premarket reviewers to research, manufacturing and other sites to better understand how medical devices are designed, made and used.



Suzanne Ffolkes

Research!America Welcomes Suzanne Ffolkes

Suzanne Ffolkes has been named vice president of communications at Research!America. She assumed her new role September 26.

Most recently, Ffolkes was director of media advocacy for the **American Heart Association**. She had earlier held key communications positions with the **AFL-CIO** and the **United Negro College Fund**. Preceding her work in nonprofits, Ffolkes spent nearly 12 years in broadcast journalism, including the **Associated Press**

Broadcast News Center.

"Suzanne brings considerable expertise in health research, strategic communications and advocacy," **Mary Woolley**, president and CEO of Research!America, said in a statement. "We look forward to working with her to increase national awareness and understanding of health, medical and scientific research."

GLOBAL HEALTH

R&D
ADVOCACY

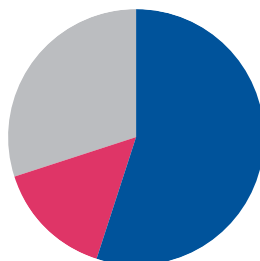
Thirty years after the virus that would become known as HIV was first identified by the **Centers for Disease Control and Prevention**, the first bipartisan congressional HIV/AIDS caucus was officially launched on September 15 on Capitol Hill. The caucus, chaired by **Reps. Jim McDermott (D-WA), Barbara Lee (D-CA) and Trent Franks (R-AZ)**, has 59 members from both sides of the aisle. Its mission is to protect federal funding for HIV/AIDS programs both in the U.S. and globally.

The launch event featured presentations from several Members of Congress and representatives from **UNAIDS, the White House Office of National AIDS Policy, World Vision** and others. Speakers emphasized the value of public-private partnerships and bipartisan support for research and innovation.

To learn more about global health R&D and the cutting-edge HIV/AIDS research happening around the U.S., visit www.researchamerica.org/global_health.

AMERICA SPEAKS

Do you support or oppose tax and regulatory incentives for industries investing in and conducting research and development to improve health?



Support	55%
Oppose	15%
Don't know	30%

SOURCE: **YOUR CONGRESS-YOUR HEALTH** SURVEY, MARCH 2011, CHARLTON RESEARCH COMPANY FOR RESEARCH!AMERICA

THE Research ADVOCATE

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Coming UP

**October 26, 2011—CPH Foundation
Unsung Heroes of Public Health Awards,**
Union Station, Washington, DC.
www.cphfoundation.org/annual_awards.html

**October 27, 2011—Science Journalism
in the Age of the Genome and Twitter,**
Embassy Suites-Tampa USF, Tampa, FL.
www.researchamerica.org/event_listing

**October 29-November 2, 2011—
APHA Annual Meeting and Exposition,**
Washington Convention Center, Washington,
DC. www.apha.org/meetings

**November 6-8, 2011—FasterCures'
Partnering for Cures,** Grand Hyatt, New
York, NY. www.partneringforcures.org

**December 8, 2011—Research!America's
Garfield Economic Impact Award,**
Washington, DC. [www.researchamerica.org/
economicimpact_award](http://www.researchamerica.org/economicimpact_award)

Advocacy & Action

Congress Needs to Hear Your Voice

The budget deal for FY11 reduced the National Institutes of Health budget by more than \$300 million. The NIH

director has reported that grant funding rates are at an all-time low.

Congress is considering budget proposals that place 2012 funding for NIH, CDC and other health research agencies at great risk. Let them know that NIH is critical to our nation's health, competitiveness and economic vitality. Our nation needs robust support for health research now more than ever.

Send a message to your Members of Congress, and pass this alert on to others who will speak out in support of health research. Visit www.researchamerica.org/advocacy.

Our federal budget will continue to be a critical issue, and we need every willing voice to send our message loud and clear to our elected officials in Washington. Act now to support research.

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2010 U.S. INVESTMENT IN HEALTH RESEARCH

RESEARCH AMERICA
AN ALLIANCE FOR DISCOVERIES IN HEALTH

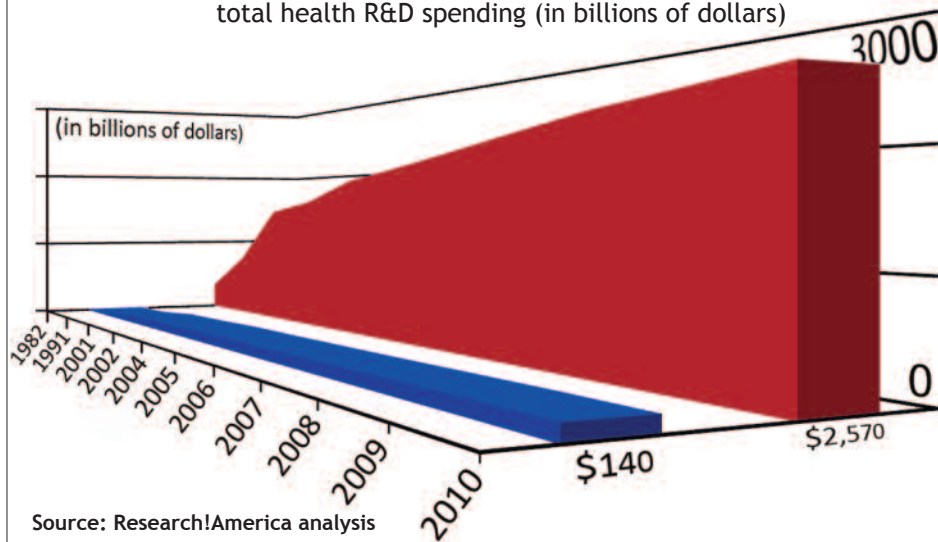
In 2010, health research spending in the United States increased slightly from \$138.9 billion to \$140.5 billion, or about 1%, lagging behind the estimated 2.8% increase in the cost of conducting such research.¹ The U.S. spent \$2.6 trillion on health care overall, while health research accounted for only 5.5% of total health care spending.

Federal funding for health research totaled \$45.9 billion in 2010, a \$550 million decrease from the previous year. The National Institutes of Health (NIH) invested \$34.8 billion. NIH funds were distributed across all 50 U.S. states to hospitals, universities, independent research institutes and small businesses. The National Science Foundation invested \$2.9 billion in basic research programs with health implications.

Overall, industry invested a total of \$76.5 billion in 2010, a 2.9% increase from 2009. The pharmaceutical industry increased R&D spending by \$4.7 billion – a 14.6% increase. However, the biotechnology industry decreased investment by nearly \$2.7 billion, which is an 8% decrease from 2009. Medical technology industry spending, which includes medical devices and diagnostics, remained relatively flat in 2010.

Health Research and Health Care Spending in the U.S.

Red represents total health care spending; blue represents total health R&D spending (in billions of dollars)



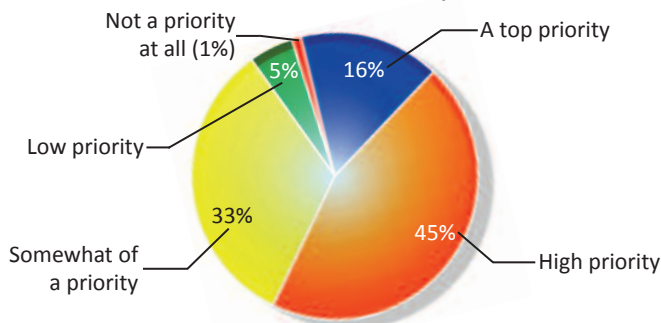
Aside from federal and industry investment, other institutions spent \$18.1 billion on health research in 2010 – a slight increase of 1.7% from the previous year. Universities increased spending of institutional funds for research to \$11.2 billion in 2009 – a 5.6% increase from the previous year. Philanthropic foundations and voluntary health groups decreased investment in research by 19% and 13%

respectively.

Overall, U.S. investment in health research is essentially stagnant when compared to measures of inflation. In contrast, countries around the world are continuing to rapidly scale up investments in R&D. Renewed, robust U.S. investment in research is needed to foster the new treatments and cures that save lives and improve health while driving economic growth.

Accelerating Investment in Health Research: A High Priority

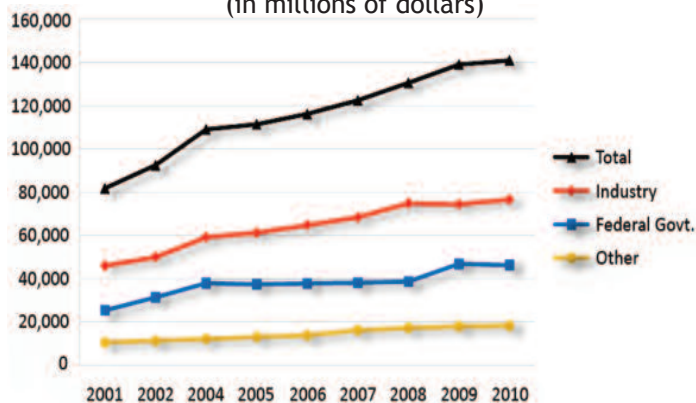
How much of a priority is it to accelerate our nation's investment in research to improve health?



Source: Your Congress-Your Health survey, March 2011, Charlton Research Company for Research!America

U.S. Health Research Investment by Sector

(in millions of dollars)



Source: Research!America analysis

in millions

Total: Estimated U.S. Health Research Expenditures140,505

Pharmaceutical (Research and Development, estimate 2010)	37,371
Biotechnology (Research and Development, 2009)	30,029
Medical Technology (Research and Development, 2009)	9,122

Subtotal: Industry76,522

National Institutes of Health (includes AHRQ)	34,829
National Science Foundation (Biological Sciences, Bioengineering, Chemistry, Math, Physics, Behavioral Sciences, Computer and Information Science and Engineering, and Polar Health)	2,914
Department of Defense (Medical Research, Chemical and Biological Defense)	2,667
Department of Agriculture (Agricultural Research Service)	1,265
Department of Energy (Biological and Environmental Research, Advanced Scientific Computing Research)	1,037
Environmental Protection Agency (Clean Air, Clean Water, Health and Human Ecosystems, Pesticides and Toxics)	596
Department of Commerce (National Institute of Standards and Technology)	588
Department of Veterans Affairs (Medical and Prosthetic Research)	581
Centers for Disease Control and Prevention (Disease Control, Research & Training) ...	363
Food and Drug Administration (salaries and expenses)	248
Department of Homeland Security (Chemical and Biological)	207
Department of the Interior (Biological Research)	205
NASA (Human Research Program)	182
U.S. Agency of International Development (targeted health issue research)	158
Centers for Medicare and Medicaid Services (research, demonstration & evaluation) ..	27
Health Resources and Services Administration (health resources & services)	8

Subtotal: Federal Government45,875

Universities (Institutional Funds) (2009)	11,198
State and Local Government (2009)	3,647
Independent Research Institutes (Institutional Funds)	1,259
Philanthropic Foundations (2009)	1,127
Voluntary Health Associations ²³	877

Subtotal: Other18,108

Compiled by: Max Bronstein,
Research!America (8/2011)

Countries around the world are continuing to rapidly scale up investments in R&D. Renewed, robust U.S. investment in research is needed to foster the new treatments and cures that save lives and improve health while driving economic growth.

Economic Impact of Research

Recent studies from Battelle Memorial Institute and United for Medical Research have demonstrated that medical research generates significant economic activity and creates high-paying jobs in every state, providing immense returns on investment.

In May 2011, the Battelle Memorial Institute, a non-profit R&D organization, released a report on the impact of the NIH-supported Human Genome Project (HGP). The report found that the \$3.8 billion in federal funding for the HGP resulted in a staggering \$796 billion in economic impact from 1988 through 2003. These figures represent a return on investment of \$141 dollars for every dollar of investment.ⁱ

United for Medical Research, a biomedical advocacy coalition, released a report in May 2011 demonstrating the economic impact of NIH funding. The report found that in 2010, NIH investments led to the creation of 487,900 R&D-intensive jobs in all

50 states with annual wages that are well above the overall private sector average.ⁱⁱ

As these reports demonstrate, investments in research not only reduce the burden of disease and disability, they generate robust economic growth. Continuing to invest, especially in difficult economic times, is key to creating jobs, assuring our nation's competitiveness and producing a healthier future for our citizenry.

Health Care Spending vs. Research Spending

Of each dollar spent in the U.S. on health care...



... about **five cents** goes toward research.

Source: Research!America analysis

Method & Rationale

The estimate of the U.S. investment in health research was determined by compiling annual expenditures for all domestic health-related research. This analysis includes fields and disciplines that contribute directly or indirectly to improved human health.

Biotechnology research expenditures were calculated from the Pharmaceutical Research and Manufacturers of America (PhRMA) 2011 Profile report as the difference between total biopharmaceutical spending and pharmaceutical spending on R&D.

Figures for USAID, CMS and the Health Resources Services Administration (HRSA) spending were from agency budget reports to Congress. The Department of Defense represents

spending for medical research and chemical and biological defense.

The Department of Agriculture estimate includes research funded by the Agricultural Research Services and the National Institute of Food and Agriculture. Research was determined to be health related based on the research objectives of each agency.

The National Institute of Standards and Technology (NIST) estimate includes research spending on Chemical Science and Technology, Physics, Materials Science and Engineering, Information Technology, Electronics and Electrical Engineering, Center for Nanoscale Science and Technology and Technology Services.

University Institutional Funds are figures reported by the National Sci-

ence Foundation (NSF) as part of the Survey of Research and Development Expenditures at Universities and Colleges for FY09. Institutional funds may include endowment income, tuition or gifts/donations. Figures for institutional funds of independent research institutes were taken from the Association of Independent Research Institutes (AIRI) annual survey of its members.

R&D investment by voluntary health organizations was calculated using the annual reports of 51 of the largest research grant-making organizations.

This is the eighth annual Investment in Research report. Previous reports are available online: www.researchamerica.org/research_investment.



Photos courtesy of NIH, CDC

Sources & Footnotes

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¹ http://officeofbudget.od.nih.gov/pdfs/FY12/BRDPI_Proj_Jan_2011_Final.pdf

ⁱ http://www.battelle.org/spotlight/5-11-11_genome.aspx

ⁱⁱ http://www.unitedformedicalresearch.com/wp-content/uploads/2011/05/UMR_Economic-Engine.pdf



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