

THE Research

A D V O C A T E

BRINGING RESEARCH CLOSER TO HOME

2010 Garfield Award Given to Frank Lichtenberg

Frank Lichtenberg, PhD, of **Columbia Business School**, is the recipient of the 2010 Garfield Economic Impact Award.

Lichtenberg's study, "The Effect of New Cancer Drug Approvals on the Life Expectancy of American Cancer Patients, 1978-2004," was published in *Economics of Innovation and New Technology*. The study found that cancer drugs in the past 40 years have helped patients live a year longer for around \$7,000, far less than estimates of what Americans would pay for an extra life-year.

He was presented with the award



David Leonhardt, left, and Frank Lichtenberg, PhD

during a December 2 reception on Capitol Hill. Lichtenberg also participated in a panel discussion with **John**

Seffrin, PhD, CEO of the **American Cancer Society** and a Research!America board member, and **Sherry A. M. Glied, PhD**, assistant secretary for Planning and Evaluation at the **Department of Health and Human Services** and the 2004 Garfield Award winner. **David Leonhardt** of *The New York Times* moderated the discussion and **Eugene Garfield, PhD**, the award's namesake, also

spoke at the event.

The award is supported by a grant

Continued on page 6

Surveying the Post-Election Landscape

As part of the *Your Candidates—Your Health* voter education initiative, Research!America held a post-election analysis November 16 at the **American Association for the Advancement of Science** in Washington, DC.

The event marked the release of Research!America's 11th annual *America Speaks* poll data summary, supported by the **United Health Foundation**.

Speakers included former **Congressman John Edward Porter**, Research!America's chair; **Stacie Propst, PhD**, Research!America's former vice president of science policy and outreach; **Mary Woolley**, president of Research!America; and **Albert H. Teich, PhD**, director of science and policy programs at AAAS.

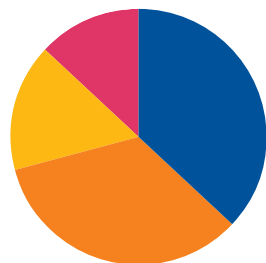


Mary Woolley, left, and John Edward Porter

Continued on page 5

AMERICA SPEAKS

How important is investing in health research to job creation and economic recovery?



Investment Important for Job Creation & Economic Recovery

Very important	37%
Somewhat important	34%
Not important	16%
Don't know	13%

New ON THE Web

www.researchamerica.org

America Speaks, Vol. 11, *Research!America's* annual summary of our polling, is now available at www.researchamerica.org/poll_summary.

With the support of the **National Science Foundation**, **Arizona State University** launched *CareerWISE*, a career development resource that launched social science-based tools and guidance to help women in STEM PhD programs. Visit careerwise.asu.edu.

Elsevier launched a Nobel tribute website to honor nine 2010 Nobel laureates and provide free access to their research. Visit the website at http://www.elsevier.com/wps/find/intro.cws_home/2010nobelprizes.

Albert Einstein College of Medicine of **Yeshiva University** created *SuperAgers.com* to spotlight the latest information on their research on aging.

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.

**RESEARCH
AMERICA**
AN ALLIANCE FOR DISCOVERIES IN HEALTH™

Members TAKE Action



Robert Roskoski, Jr., MD, PhD

As a student, **Robert Roskoski, Jr., MD, PhD**, was turned on to research out of an abundance of curiosity. The study of mechanisms in organic chemistry as an undergrad led to further study of biochemical mechanisms in graduate school.

After leaving a position with the **LSU Health Sciences Center** in New Orleans, he knew that he wanted to continue his work as a researcher. He found a place to work in western North Carolina, not far from Asheville: Horse Shoe, located about 40 miles east of the Great Smoky Mountains.

Along with the scenic views to be had in Horse Shoe, there is serious work going on at BRIMR. The focus of their study has been a protein kinase called epidermal growth factor (EGF) receptor which, if overactive, can cause lung cancer and other tumors. By research-

Blue Ridge Institute for Medical Research

Located in picturesque Horse Shoe, NC, the Blue Ridge Institute for Medical Research studies the signaling involved in cell growth. By focusing on a particular facet of that signaling—molecules called protein kinases that transmit the signal from outside the cell to inside—BRIMR can better understand the rise of cancer cells within the body.

ing **Food and Drug Administration**-approved drugs, BRIMR now has a greater understanding of how the EGF receptor can be inhibited. However, this is only one piece of the puzzle, since there are typically multiple signaling pathways involved in causing cancer, Roskoski said.

And he sees benefits large and small to BRIMR's membership with Research!America: Its website, which features profiles of selected life scientists, receives traffic from Research!America's.

"As Research!America espouses the fundamental importance of medical research for the benefit of all," Roskoski said, "the Blue Ridge Institute for Medical Research performs broad-based and fundamental medical research in keeping with this mission."

Visit www.brimr.org for more.

Research!America Adds Value

FOR OUR MEMBERS

- Our annual Garfield Economic Impact Award recognizes early-career economists that powerfully link medical research and the economic benefits that research provides. According to former U.S. Surgeon General C. Everett Koop, MD, ScD, Garfield Award winners "clearly and unequivocally illustrate that research for health is worth the cost."
- Public Health Thank You Day promotes a time for all Americans to take a moment and thank those who work in public health. This helps bring awareness to public health and how society benefits from its study.
- *America Speaks*, our annual recap of a year's worth of polling, provides data that allows our members to supplement their advocacy with proof of public support.
- Research!America's briefings on Capitol Hill help us showcase to lawmakers and their staffs the importance of keeping funding for health research a top priority.

Post-Election Outlook for Science

Will the new Members of Congress follow through on campaign pledges to put a cap on discretionary spending in 2011? If so, will federal research agencies be affected? **Bloomberg News** reported that if the incoming House implemented its campaign pledge, funding for NIH and other agencies would roll back to FY08 levels.



John Edward Porter

Research!America's chair, former U.S. Rep. **John Edward Porter**, appeared on the television show **BioCentury This Week**, to share his thoughts on improving the climate for science and innovation in 2011. "Increasing the NIH budget going forward will require a major effort on behalf of the science community, the business community, the American people and the administration," he said. "In the end, there will be spending. And if we don't make the investments in science, technology, innovation and research now, we will

lose our lead in these areas."

Research!America President Mary Woolley told *The New Scientist* that it is important for the new Congress to see science and research spending as an investment in America's economy rather than a cost.

In other interviews, Research!America told *Science News*, *MyHealthNewsDaily* and *LiveScience* that biomedical research funding has historically been a bipartisan issue and it should continue to receive support across party lines.

Research!America's *Your Candidates—Your Health* voter education initiative was featured in *Science* shortly before Election Day.

Research as a Boon for Jobs and Local Economies

Jay A. Gershen, DDS, PhD, president of the **Northeastern Ohio Universities Colleges of Medicine and Pharmacy** and a Research!America board member, wrote op-eds in *The Youngstown (OH) Vindicator*, *The Canton (OH) Repository* and *MD News* magazine on the growing biomedical and health care industries in Ohio. He said that partnering with advocacy organizations such as Research!America is key to attracting new businesses to Ohio and turning the state into a biomedical hub.



Jay A. Gershen, DDS, PhD

Public Support for Stem Cell Research

Nature Medicine published findings from a new HealthDay-Harris Interactive poll on embryonic stem cell research. The poll findings indicate that a majority of Americans from across the political spectrum support embryonic stem cell research. Woolley was quoted as saying that the American public's support for embryonic stem cell research "underscores the fact that disease and disability are not partisan." She also said that Research!America's polling results on stem cell research are very similar to the HealthDay-Harris poll results.



Thomas R. Frieden, MD, MPH

Frieden Discusses Nation's Biggest Health Battles

Thomas R. Frieden, MD, MPH, director of the Centers for Disease Control and Prevention, identified what he considers to be America's biggest and most winnable health battles based on public health research, in a **Medscape Today** interview. He mentioned tobacco usage, which has decreased nationwide but is still prevalent in some parts of the country, as well as the growing obesity epidemic.



Research!America and all our members must make the economic case for research in the context of the challenge of

reducing debt while growing the economy. Conversation stimulated by the suggestions of the two debt commissions reveals the complexities of acting in our nation's best interests. I am struck by former Sen. Pete Domenici's recommendation to escalate consideration of our economic challenge to that of a war effort—mobilize the machinery of economic combat: Stoke the coals of economic growth by firing up innovation. Exempt science from cuts in discretionary spending and lower corporate tax rates to improve global competitiveness for our industries. As a recent UNESCO report makes clear, other nations are out-investing the U.S. in terms of percent of GDP devoted to R&D and are increasingly out-performing us in terms of translating discovery to productivity and output. Reversing these trends won't happen unless our community speaks out.

Wondering how to get involved? We have tools on our website to help make the case for heightened investment in research via evidence of return on investment to date. Our new poll data booklet, our state-by-state statistics on impact of local investment in research, our recently-released yearly report of investment in research in the context of total health expenditure and more, can be sent to your elected representatives, the media and your own networks. It's time for us all to mobilize and commit to overcoming the twin challenges of growing national debt and stalled economic growth by putting R&D at the forefront of recovery.

Mary Woolley

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To make health research a top priority in the FY2012 budget discussions, Research!America is urging \$35 billion in **National Institutes of Health** funding. These funds are critical to maintaining our current research capacity, stimulating our economy and ensuring that progress in medical innovation continues.

According to Research!America chair **John Edward Porter**, a former Congressman, "It will take motivated, committed people in Washington and motivated, committed people at home"

to make Members of Congress understand that the foundation of America's economy is science, technology, innovation and research.

Research!America encourages members to reach out to local talk radio and newspaper editorial boards and to meet with their delegation's district offices about the importance of research funding.

To make research for health a priority for the 112th Congress, the community must come together, share ideas and make their unified voices heard on Capitol Hill. **Send us your thoughts on messages and strategies for reaching out to Congress and the public in 2011 to advocacy@researchamerica.org.**

CPH Update



The Campaign for Public Health Foundation hosted its inaugural Unsung Heroes of Public Health awards event in Washington, DC, on November 18. **Cecilia Rosales, MD**, of Arizona and **Janet Zola, MPH**, of San Francisco met with House and Senate offices to help educate their elected officials about the work they were doing. House Speaker **Nancy Pelosi's** senior health staff members are among those who met with the winners. The Unsung Heroes reception, held at Union Station, was attended by senior leaders and major organizations in public health disease control and prevention. The CPH Foundation was especially grateful to **AMGEN** for supporting the event with an educational donation. Pictured above, **Richard Hubbard, MD**, of **Pfizer**, presents the Wavemaker Award to Rosales and **Isabelle Claxton** of **GlaxoSmithKline** presents the Rock In The Pond Award to Zola.

2011 FEDERAL RESEARCH BUDGET

Agency	President's Request	% Change from 2010	House Appropriations Subcommittees	Senate Appropriations Committee	Research!America's Recommendation
National Institutes of Health	\$32.0 billion	+3.2%	\$32.0 billion	\$32.0 billion	\$35.0 billion
Centers for Disease Control and Prevention*	\$6.6 billion	-1.9%	\$6.8 billion	\$6.9 billion	\$8.8 billion
National Science Foundation	\$7.42 billion	+8.0%	\$7.42 billion	\$7.35 billion	\$7.42 billion
Agency for Healthcare Research and Quality	\$611 million	+53.9%	\$411 million	\$397 million	\$611 million

* Reflects the CDC core program budget. For more information on the CDC budget, please visit www.FundCDC.org.

Rock Stars of Science Returns for 2010



Rock Stars of Science, which pairs rock stars with high-profile members of the health and medical research community, is back for 2010.

The initiative, sponsored by **Geoffrey Beene Gives Back®** and *GQ Magazine*, features a six-page public service ad in the December issue of *GQ*.

“Scientists must venture outside their comfort zones to show the public how cool—and how important—their work really is,” said **Francis Collins, MD, PhD**, director of the National Institutes of Health and one of the 2009 Rock Stars of Science.

Geoffrey Beene Gives Back and Research!America won Top Public Service Campaign for the 2009 campaign from the

DC chapter of the Public Relations Society of America.

The featured researchers for 2010 include **Stephen B. Baylin, MD; Elizabeth A. Blackburn, PhD**; retired Rear Adm. **Susan J. Blumenthal, MD; Geraldine Dawson, PhD; Frank L. Douglas, MD, PhD; Bernard A. Harris, MD; Catronia Jamieson, MD, PhD; Emil Kakkis, MD; Frank M. Longo, PhD; Joan Massagué, PhD; Mehmet C. Oz, MD; Eric M. Reiman, MD; Charles L. Sawyers, MD; Phillip A. Sharp, PhD; Craig B. Thompson, MD; Mehmet Toner, PhD**; and **Michael W. Weiner, MD**.

Post-Election Survey *Continued from page 1*

They tackled tough questions: What can the advocacy community expect from the 112th Congress? What strategies will ensure research remains a funding priority?

Porter warned that the medical research community will face great challenges with the new Congress.

“We have to plan how we’re going to convince Members of Congress to make funding for research a high priority,” he said.

The road ahead will be difficult, Porter warned.

“Yes, it’s a difficult environment,” he said. “But let’s not simply say this is something that we can’t do. It is something we can do. And we have the best product to sell—we simply all need to get behind it and make it happen.”

AAAS is a Research!America member.

SPECIAL THANKS TO RENEWING RESEARCH!AMERICA ALLIANCE MEMBERS

American Pediatric Society	New York Stem Cell Foundation
American Sociological Association	New York University
Bristol-Myers Squibb	Society for Public Health Education
Charles Drew University of Medicine and Science	SPARC, The Scholarly Publishing and Academic Resources Coalition
Dana-Farber Cancer Institute	The Foundation Fighting Blindness
The Johns Hopkins University School of Nursing	The Society for Women’s Health Research
Juvenile Diabetes Research International Foundation	University of California Davis School of Medicine
Lovelace Respiratory Research Institute	University of Pittsburgh School of Medicine
Midwest Nursing Research Society	University of Southern California
National Multiple Sclerosis Society	School of Dentistry

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

2011 RESEARCH!AMERICA

Advocacy Awards
March 15, 2011

Andrew W. Mellon Auditorium
Washington, DC

6:30 p.m. Grand Reception

7:15 p.m. Dinner and Awards
Presentations

www.researchamerica.org/advocacy_awards

2011 ADVOCACY AWARD RECIPIENTS

Raymond and Beverly Sackler Award for Sustained National Leadership

J. Michael Bishop, MD, Nobel laureate and chancellor emeritus of University of California, San Francisco

Gordon and Llura Gund Leadership Award
Michael Bloomberg, New York City mayor

Isadore Rosenfeld Award for Impact on Public Opinion

Charlie Rose, executive editor and anchor of “Charlie Rose” on PBS

Paul G. Rogers Distinguished Organization Advocacy Award

Defense and Veterans Brain Injury Center

Builders of Science Award

Dean Kamen, founder of DEKA Research & Development

Plan to join us earlier in the day at the Research!America Annual Meeting and 2011 National Forum at the National Press Club.

Lasker Awards Announce Call for Nominations

The **Albert and Mary Lasker Foundation** is accepting nominations for the 2011 Lasker Awards through February 1, 2011. The awards will be offered in three categories.

The Basic Medical Research Award honors scientists whose work has provided techniques, information or concepts that contribute to eliminating major causes of death and disability. The Clinical Medical Research Award honors scientists whose contributions have improved the clinical treatment of patients. The Public Service Award honors those who have advocated for federal legislation and funding that supports research and creates important public health messages and programs.

Visit www.laskerfoundation.org.

Did YOU Know

Research!America President and CEO Mary Woolley shared advocacy messages and strategies in presentations to the **Columbia University Aging Policy Fellows** and the **Damon Runyon Foundation**, both Research!America members.

Amy Finkelstein, PhD, of MIT, the 2006 winner of the Garfield Economic Impact Award, received the Presidential Early Career Award for Scientists and Engineers, the highest honor bestowed by the U.S. government on science and engineering professionals in the early stages of their careers.

The Economist cited a recent UNESCO report which found that America, Europe and Japan conducted more than 95% of the world's research and development in 1990, but by 2007, that number slipped to 76%. However, international collaboration is 25% higher now than it was 15 years ago.

Principal Partner Thank You

Research!America extends special thanks to our principal partners:

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

GENERAL SUPPORT

The Dana Foundation

Bill and Melinda Gates Foundation

Stem Cell Action Network Launches as Trial Nears Verdict

Research!America and more than 30 other organizations are supporting the **Stem Cell Action Network**, an initiative of the **Genetics Policy Institute**, a Research!America member.

SCAN encourages the public and the research community to contact their elected representatives and voice support for protecting funding for embryonic stem cell research. Visit www.stemcellactionnetwork.org for talking points and templates to send to Congress.

The new coalition complements at the grassroots level the work of the **Coalition for Medical Research**—of which Research!America is a member. CAMR continues to push for legislation to protect federal funding for ESCR.

In the courts, briefs were filed ahead of a December 6 hearing in which the U.S. Court of Appeals for the DC Circuit heard arguments concerning the August shutdown of federally-funded ESCR.

National Medals of Science Awarded

Medical researchers **Susan L. Lindquist, PhD**; **Mortimer Mishkin, PhD**, and **Stanley B. Prusiner, MD**, were among 16 scientists to receive the National Medal of Science.

The annual awards are administered for the **White House** by the **National Science Foundation**.

“The extraordinary accomplishments of these scientists, engineers and inventors are a testament to American industry and ingenuity,” **President Barack Obama** said. “Their achievements have redrawn the frontiers of human knowledge while enhancing American prosperity.”

Lindquist works at the **Whitehead Institute for Biomedical Research**, Mishkin, at the **National Institutes of Health**, and Prusiner at the **University of California, San Francisco**. The Whitehead Institute and UCSF are both Research!America members.

2010 Garfield Award

Continued from page 1

from **Merck & Co., Inc.**, a Research!America member, along with the **Eugene Garfield Foundation** and Research!America. **Sen. Charles Schumer (D-NY)** served as congressional honorary host for the reception.

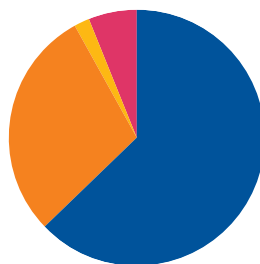
Established in 2002, the Garfield Economic Impact Award annually recognizes the outstanding work of one or

more early-career economists who demonstrate how medical and health research impacts the economy. Over the years, Garfield awardees have become well recognized by their peers, policy makers and influential media.

See this month's insert about the award and its recipients.

AMERICA SPEAKS

How important do you think it is that the U.S. is a global leader in bringing new medicines to market?



U.S. Should be Global Leader in Bringing Medicines to Market

Very important	63%
Somewhat important	29%
Not important	2%
Don't know	6%

SOURCE: RESEARCH ENTERPRISE POLL, FEBRUARY 2010, CHARLTON RESEARCH COMPANY FOR RESEARCH!AMERICA

Subra Suresh of MIT Confirmed to Become NSF Director

Subra Suresh, PhD, was sworn in as the 13th director of the **National Science Foundation** by President Barack Obama's science advisor, **John Holdren, PhD**. Suresh had been confirmed by the U.S. Senate.



Subra Suresh, PhD

A mechanical engineer who became interested in materials science and biology, Suresh is a pioneer in the study of the biomechanics of blood cells in diseases such as malaria.

Suresh served as dean of the engineering school and Vannevar Bush Professor of Engineering at the **Massachusetts Institute of Technology**. He also held joint faculty appointments in Materials Science and Engineering, Mechanical Engineering, Biological Engineering and Health Sciences and Technology at MIT.

MIT is a Research!America member.

Wake Forest's Baptist Medical Center Launches Office of Global Health

Wake Forest University Baptist Medical Center launched an Office of Global Health to institutionally recognize health problems that transcend national borders or have a global, political and economic impact. It will facilitate direct initiatives to impact global health and serve as the foundation to integrate projects and facilitate growth in this area.

Under Assistant Dean of Global Health **Bret Nicks, MD**, there are already many examples of global health efforts at the medical center, including the creation of Kybele Inc., a humanitarian organization dedicated to improving child-birth conditions worldwide through medical education partnerships.

Wake Forest University School of Medicine is a Research!America member.

J&J Executive Testifies on Global Impact of NTD's

Paul Stoffels, MD, group chairman of R&D for **Johnson & Johnson's** pharmaceutical division, addressed the **World Health Organization** at a meeting in Geneva to mark the launch of the first report on neglected tropical diseases.

The report suggests that several of the 17 neglected diseases identified could be eliminated by 2020 by increasing the distribution of simple medicines.

Stoffels outlined Johnson & Johnson's 5-year program to improve the health of more than 120 million women and children each year in developing countries.

"Individually, we each have the power to make a difference," Stoffels said. "Collectively, we can be formidable and change the world by combining and deploying resources and knowledge to reduce the burden of neglected tropical disease and improve health globally."

Johnson & Johnson is a Research!America member.

GLOBAL HEALTH

R&D
ADVOCACY

Smart for Illinois, Right for the World

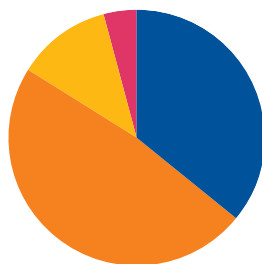
On December 7, leaders from Illinois and the global health R&D community joined federal government officials in Washington, DC, to discuss their individual and collective roles in advancing global health R&D. Research!America convened 25 stakeholders to address the health and economic benefits from U.S. investment in global health R&D—focusing on how such investment impacts Illinois.

Living in the top destination for foreign investment in the Midwest, Illinoisans understand that the state's economy is closely linked with global economies, productivity and well-being. Results from a new Research!America poll show that Illinoisans believe global health research spending is important to Illinois's economy and over 90% of residents believe it is important for Illinois to be a leader in health R&D.

This will be the first in a series of state-focused efforts in which Research!America will showcase how our investment in global health R&D is an economic driver for our own communities—yielding high-paying jobs, attracting business investment and ultimately helping to protect our health, our security and our economy.

AMERICA SPEAKS

How important would you say it is that the U.S. work to improve health globally through research and development?



SOURCE: YOUR CANDIDATES-YOUR HEALTH POLL, AUGUST 2010, CHARLTON RESEARCH COMPANY FOR RESEARCH!AMERICA

Majority Say U.S. Global Health R&D is Important

Very important	36%
Somewhat important	48%
Not too important	12%
Not at all important	4%

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Coming UP

December 14-15, 2010—FasterCures'
Partnering for Cures meeting. New York.
www.partneringforcures.org.

March 15, 2011—Research!America's
Annual Meeting, National Forum and
Advocacy Awards. Washington, DC.
www.researchamerica.org.



Advocacy & Action

Final decisions about the president's FY2012 budget recommendations are being made now, making it a critical time to take action. Cuts to the entire federal budget have been proposed—including health research agencies. Please remind the president that a robust investment in science is critical to creating jobs, improving health, encouraging innovation and revitalizing the economy.

Take action now. Urge President Obama to maintain his commitment to “restore science to its rightful place” by proposing and fighting for \$35 billion in NIH funding in FY2012.

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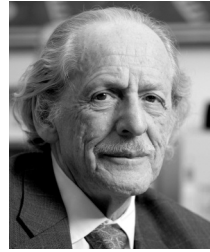
Become a fan on Facebook: www.researchamerica.org/facebook



Watch our YouTube channel: www.youtube.com/researchamerica



Visit our blog: www.researchamerica.org/blog



Established in 2002, the **Garfield Economic Impact Award** annually recognizes outstanding research that illustrates how medical or health research impacts the economy. Founding support for the Garfield Economic Impact Award was provided by the **Eugene Garfield Foundation**. Beginning in 2010, the award is also supported by a grant from **Merck & Co., Inc.** The award is named for Eugene Garfield, PhD, president and founding editor of *The Scientist*, creator of the Science Citation Index and a Research!America emeritus director.

GARFIELD ECONOMIC IMPACT AWARD

**ECONOMISTS
DEMONSTRATE
IMPACT OF
RESEARCH**

AMERICANS RECOGNIZE THAT SCIENTIFIC RESEARCH CONTRIBUTES to the economic strength of our communities and our nation. In a 2010 Research!America poll, 77% of Americans said that research to improve health is part of the solution to rising health care costs. This impression is supported by a growing body of economic analysis. While the full picture of the economic value of research that improves health is still emerging, many of the nation's most respected economists are weighing in.

Since 2002, Research!America's Garfield Economic Impact Award has honored the outstanding work of one or more early-career economists. Over the years, Garfield awardees have become well recognized by their peers, policy makers and influential media.

2010



FRANK R. LICHTENBERG, PHD

Columbia Business School

Lichtenberg examined the impact of new cancer drugs on the life expectancy of American cancer patients. He concluded that new cancer drugs from 1968 to 2004 increased the life expectancy of cancer patients by almost one year, and that the cost of this additional year of life is less than \$7000 per cancer patient, much lower than previous estimates of what Americans are willing to pay for an additional year of life.

“The Effect of New Cancer Drug Approvals on the Life Expectancy of American Cancer Patients, 1978-2004” *Economics of Innovation and New Technology*, July 2009, Vol. 18, No. 5: 1-22.

2009



DARIUS N. LAKDAWALLA, PHD, DANA GOLDMAN, PHD, PIERRE-CARL MICHAUD, PHD, NEERAJ SOOD, PHD, ROBERT LEMPERS, PHD, ZE CONG, HAN DE VRIES AND ITALO GUTIERREZ

University of Southern California and the RAND Corporation

Lakdawalla and his co-authors explored ways to lower U.S. prescription drug prices without creating unintended consequences in cost to consumers, quality of life or future drug innovation. Their thought-provoking conclusions suggest the value of reduced drug copayments for consumers, as opposed to U.S. price controls, as a strategy to promote current use as well as future development of new pharmaceuticals.

“U.S. Pharmaceutical Policy in a Global Marketplace” *Health Affairs*, 28, no. 1, January-February 2009.

2008



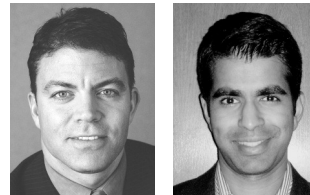
AMITABH CHANDRA, PHD AND DOUGLAS O. STAIGER, PHD

Harvard University and Dartmouth College

Chandra and Staiger were honored for developing a groundbreaking model that could improve the translation of research to medical practice. Their model shows why new treatments that work in clinical trials do not always produce better outcomes for patients. Addressing productivity spillovers—where specializing in a new procedure can lead to existing treatments being used less effectively—could improve how research is translated into patient care.

“Productivity Spillovers in Health Care: Evidence from the Treatment of Heart Attacks,” *Journal of Political Economy*. Volume 115, Number 1, 2007.

2007



TOMAS J. PHILIPSON, PHD AND ANUPAM B. JENA, PHD

University of Chicago, Harris School of Public Policy Studies

Philipson and Jena, both of the University of Chicago Harris School of Public Policy Studies, were honored for using a novel approach to measure the value of HIV/AIDS drugs developed from 1980 to 2000 and found their value to be nearly \$1.4 trillion. Yet only a small share of the “social surplus” created by patients living much longer, more productive lives was returned to the drugs’ innovators. This low rate of return, they argue, may reduce the incentive for future innovation in HIV/AIDS research, and could, by extension, discourage other avenues of health research.

“Who Benefits from New Medical Technologies? Estimates of Consumer and Producer Surpluses for HIV/AIDS Drugs” *Forum for Health Economics & Policy*. Volume 9, Issue 2, Article 3, 2006, (Biomedical Research and the Economy).

2006



AMY FINKELSTEIN, PHD, MPhil

Massachusetts Institute of Technology

Finkelstein, of the Massachusetts Institute of Technology, examined the effect of health policies designed to increase the use of existing vaccine technologies as incentive for research leading to new technologies. Finkelstein found these policies were associated with a 2.5-fold increase in development of new vaccine technologies.

“Static and Dynamic Effects of Health Policy,” *Quarterly Journal of Economics*. Volume 119, Issue 2, May 2004.

2005



KEVIN M. MURPHY, PHD AND ROBERT H. TOPEL, PHD

University of Chicago Graduate School of Business

Murphy and Topel, of the University of Chicago Graduate School of Business, calculated a dollar value for the life expectancy gains produced by medical research. Murphy and Topel estimated that improvements in life expectancy alone, not considering improvements in quality of life, added \$2.6 trillion per year to national wealth between 1970 and 1998.

“The Economic Value of Medical Research,” *Measuring the Gains from Medical Research, An Economic Approach*. University of Chicago Press, Ch. 2, 2003.

2004



SHERRY A.M. GLIED, PHD

Columbia University

Glied, of Columbia University Mailman School of Public Health, received the award for her examination of various explanations behind the declines in fatal childhood injuries. She found that parents’ access to science-based information contributes significantly to lower child mortality and translates into annual savings of \$7 billion to \$16 billion. Glied’s work shows how the accumulation of scientific evidence stimulates better decision-making and improves outcomes for children.

“The Value of Reductions in Child Injury Mortality in the U.S.,” *Medical Care Output and Productivity*. University of Chicago Press, Ch. 13, 2001.

2003



DAVID CUTLER, PHD

Harvard University

Cutler, of Harvard University, outlined a novel way to measure the value of medical research and the public knowledge derived from it. Cutler showed the value of medical research in leading not only to new cardiovascular therapies but also to new information people can use in day-to-day health care decisions. Cutler estimated the return on investment for new medical treatments is about 4 to 1 and the return on health knowledge is about 30 to 1.

“The Return to Biomedical Research: Treatment and Behavioral Effects,” *The Economic Benefits of Medical Research*. University of Chicago Press, 2003, with S. Kadiyala.

2002



DAVID MELTZER, MD, PHD

University of Chicago

Meltzer, of the University of Chicago, developed a mathematical model to determine if a research approach is economically worth pursuing. His work showed that the model could be used both to prioritize research projects and to help identify when further spending on research might be expected to yield substantial returns.

“Addressing Uncertainty in Medical Cost-Effectiveness Analysis,” *Journal of Health Economics* 20, 2001.