

UPR Investigator among 2013 NIH High Risk-High Reward Research Awardees ^[1]

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By:



A scientist from the University of Puerto Rico and the Institute of Neurobiology, Dr. Joshua Rosenthal, in collaboration with investigators at the Vollum Institute of the Oregon Health Sciences University, has received one of the most competitive and prestigious grants awarded by the National Institutes of Health, a Transformative Research grant from the High-Risk High-Reward program. The investigators will study a new method to correct disease causing mutations.

NIH commits to seventy-eight awards to support exceptional innovation in biomedical research.

Seventy-eight grants are being awarded to scientists proposing highly innovative approaches to major contemporary challenges in biomedical research, under the High Risk-High Reward program supported by the National Institutes of Health Common Fund.

"NIH is excited to continue support of visionary investigators, among all career stages, pursuing science with the potential to transform scientific fields and accelerate the translation of scientific research into improved health, through the Common Fund's High Risk-High Reward Research Program. This Program allows researchers to propose highly creative research projects across a broad range of biomedical research areas, that involve inherent risk, but have the potential for high-rewards," said NIH Director Francis S. Collins, M.D., Ph.D.

NIH Pioneer, New Innovator, Transformative Research, and Early Independence Awards encourage creative thinkers to pursue exciting and innovative ideas about biomedical and behavioral research. The Pioneer Award [3], now in its tenth year, challenges investigators at all career levels to develop highly innovative approaches that have the potential to produce a high impact on a broad area of biomedical or behavioral research. The New Innovator Award [4] initiative, established in 2007, supports investigators who are within 10 years of their terminal degree or clinical residency, but who have not yet received a Research Project Grant (R01) or equivalent NIH grant, to conduct exceptionally innovative research. The Transformative Research Awards [5] program, established in 2009, promotes cross-cutting, interdisciplinary approaches and is open to individuals and teams of investigators who propose research that has the potential to create or overturn fundamental paradigms. The Early Independence Award [6], with the first awards given in 2011, provide an opportunity for exceptional junior scientists, who have recently received their doctoral degree or finished medical residency, to skip traditional post-doctoral training and move immediately into independent research positions.

In 2013, NIH is awarding 12 Pioneer Awards, 41 New Innovator Awards, 10 Transformative Research Awards, and 15 Early Independence Awards. The total funding, which represents contributions from the NIH Common Fund and multiple NIH institutes and centers, is approximately \$123 million.

The 2013 recipients' names and institutions are listed below.

2013 NIH Pioneer Award recipients

- Amy F.T. Arnsten, Ph.D., Yale University, New Haven, Conn.
- Edward S. Boyden, Ph.D., Massachusetts Institute of Technology, Cambridge, Mass.
- Vadim N. Gladyshev, Ph.D., Brigham And Women's Hospital, Boston
- Baljit Khakh, Ph.D., University of California Los Angeles
- Michael Z. Lin, M.D., Ph.D., Stanford University, Stanford, Calif.
- Jay Ashok Shendure, M.D., Ph.D., University of Washington, Seattle
- Natalia A. Trayanova, Ph.D., The Johns Hopkins University, Baltimore, Md.
- Fan Wang, Ph.D., Duke University, Durham, N.C.
- Leor S Weinberger, Ph.D., Gladstone Institutes, San Francisco
- Xiaoliang Sunney Xie, Ph.D., Harvard University, Cambridge, Mass.
- Rafael M Yuste, M.D., Ph.D., Columbia University New York Morningside, New York
- Mark J Zylka, Ph.D., University of North Carolina, Chapel Hill, N.C.

2013 NIH Director's New Innovator Award recipients

- Hillel Adesnik, Ph.D., University of California, Berkeley, Calif.
- Jennifer Ahern, Ph.D., University of California, Berkeley
- Sara J Aton, Ph.D., University of Michigan, Ann Arbor, Mich.
- Bree Beardsley Aldridge, Ph.D., Tufts University, Boston
- Catherine A Blish, MD, Ph.D., Stanford University
- Jason Michael Crawford, Ph.D., Yale University
- Arvin Dar, MD, Ph.D., Mount Sinai School of Medicine, New York
- Rahul Chandrakant Deo, MD, Ph.D., University of California, San Francisco, Calif.
- Maximilian Diehn, MD, Ph.D., Stanford University
- Jeffrey D Dvorin, MD, Ph.D., Children's Hospital Corporation, Boston
- Aaron Palmer Esser-Kahn, Ph.D., University of California, Irvine, Calif.
- Scott E Evans, MD, UT MD Anderson Cancer Center, Houston
- Dorothea Fiedler, Ph.D., Princeton University, Princeton, N.J.
- Adam Frost, MD, Ph.D., University of Utah, Salt Lake City
- Sunil Gandhi, Ph.D., University of California, Irvine
- Zev Jordan Gartner, Ph.D., University of California, San Francisco
- Robert D Gregg, Ph.D., University of Texas, Dallas
- Scott B Hansen, Ph.D., Scripps, Jupiter, Fla.
- Tracey Jane Lamb, Ph.D., Emory University, Atlanta
- Julius Beau Lucks, Ph.D., Cornell University, Ithaca, N.Y.
- Linsey Marr, Ph.D., Virginia Polytechnic Institute and State University, Blacksburg, Va.
- Houra Merrikh, Ph.D., University of Washington
- Seyed Ali Mortazavi, Ph.D., University of California, Irvine
- Ryan O'Connell, Ph.D., University of Utah
- Jukka-Pekka Onnela, D.Sc., Harvard University (School of Public Health), Boston
- Christian Petersen, Ph.D., Northwestern University, Evanston, Ill.
- Shelly R Peyton, Ph.D., University of Massachusetts, Amherst, Mass.
- Vanessa Ruta, Ph.D., Rockefeller University, New York
- Ozgur Sahin, Ph.D., Columbia University Morningside, New York
- Shomyseh Sanjabi, Ph.D., Gladstone Institutes
- Elizabeth Susan Sattely, Ph.D., Stanford University
- David Frank Savage, Ph.D., University of California, Berkeley
- Marco Seandel, Ph.D., Weill Medical College of Cornell University, Ithaca, N.Y.
- Sivaraj Sivaramakrishnan, Ph.D., University of Michigan
- Derek James Taylor, Ph.D., Case Western Reserve University, Cleveland, Ohio
- Anna Degraff Tischler, Ph.D., University of Minnesota, Minneapolis, Minn.
- Kay Maxine Tye, Ph.D., Massachusetts Institute of Technology
- Viviana Gradinaru, Ph.D., California Institute of Technology, Pasadena, Calif.
- Richard Mark White, MD, Ph.D., Sloan-Kettering Institute for Cancer Research, New York
- Wilson Wong, Ph.D., Boston University (Charles River Campus), Boston
- Ying Zheng, Ph.D., University of Washington

2013 NIH Transformative Research Award recipients

- Peng Yin, Ph.D., Harvard University (Medical School), Boston
- Molly L Carnes, M.D., Patricia G Devine, Ph.D., Cecilia E Ford, Ph.D., University of Wisconsin, Madison, Wis.
- Konrad P. Kording, Ph.D., Rehabilitation Institute of Chicago, Chicago; Edward S. Boyden, Ph.D. Massachusetts Institute of Technology; George M Church, Ph.D., Harvard University Medical School
- Gail Mandel, Ph.D., Oregon Health and Science University, Portland, Ore.; John P Adelman, Ph.D., Oregon Health and Science University; Paul Brehm, Ph.D., Oregon Health and Science University; **Joshua J.C. Rosenthal, Ph.D., University of Puerto Rico, San Juan, Puerto Rico**
- Augusto C Ochoa, M.D., Louisiana State University Health Sciences Center, New Orleans
- David Arnold Relman, M.D., Palo Alto Institute for Research and Education, Inc., Palo Alto, Calif.; Susan P Holmes, Ph.D., Stanford University
- Alice Y Ting, Ph.D., Massachusetts Institute of Technology
- Lihong Wang, Ph.D., Washington University, St. Louis
- Tony Wysscoray, Ph.D., Palo Alto Institute for Research and Education, Inc.; Thomas A. Rando, M.D., Stanford University
- Demetri Yannopoulos, M.D., University of Minnesota, Minneapolis

2013 NIH Director's Early Independence Award recipients

- Gregory M Alushin, Ph.D., U.S. National Heart Lung and Blood Institute, Bethesda, Md.
- Isabelle Rhyssa Joe Eduria Baconguis, Ph.D., Oregon Health and Science University
- Hans Tomas Bjornsson, M.D., Ph.D., The Johns Hopkins University
- Meredith M Bruening, Ph.D., Arizona State University, Tempe, Ariz.
- Hannah Kathryn Carter, Ph.D., University of California, La Jolla, Calif.
- Christine Ann Denny, Columbia University Health Sciences, New York
- Elaine Hsiao, Ph.D., California Institute of Technology
- Anupam Bapu Jena, M.D., Harvard University (Medical School)
- Sebastian Lourido, Ph.D., Whitehead Institute for Biomedical Research, Cambridge, Mass.
- Jonathan F Lovell, Ph.D., State University of New York, Buffalo, New York
- William Ludington, Ph.D., University of California, Berkeley
- David Pincus, Ph.D., Whitehead Institute For Biomedical Research
- Lei Stanley Qi, Ph.D., University of California, San Francisco
- Eric T Wang, Ph.D., Massachusetts Institute of Technology
- David Eric Weinberg, Ph.D., University of California, San Francisco

More information on the NIH High Risk-High Reward Research Program is at:

<http://commonfund.nih.gov/highrisk/> [7], including links to award program page, which contain information on current and past awardees, and funding opportunities.

The NIH Common Fund supports a series of exceptionally high impact research programs that are broadly relevant to health and disease. The NIH Director's awards Program is funded through the Common Fund and managed by the NIH Office of the Director in partnership with the various NIH Institutes, Centers and Offices. Common Fund programs are designed to overcome major research barriers and pursue emerging opportunities for the benefit of the biomedical research

community at large. The research products of Common Fund programs are expected to catalyze disease-specific research supported by the NIH Institutes and Centers. Additional information about the NIH Common Fund can be found at <http://commonfund.nih.gov> [8].

About the National Institutes of Health (NIH): NIH, the nation's medical research agency, includes 27 Institutes and Centers and is a component of the U.S. Department of Health and Human Services. NIH is the primary federal agency conducting and supporting basic, clinical, and translational medical research, and is investigating the causes, treatments, and cures for both common and rare diseases. For more information about NIH and its programs, visit www.nih.gov [9].

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