

-
-
-
-
- - [Profile](#)
 - [Newsletter](#)
 - [Favorites](#)
 - [Activity](#)
 - [PM](#)
 - [My news](#)
- [Sign In](#)
- [Register](#)
-
- [Nanotechnology](#)
 - [All Nanotechnology](#)
 - Previews will load in a moment
 - [Bio & Medicine](#)
 - Previews will load in a moment
 - [Nanophysics](#)
 - Previews will load in a moment
 - [Nanomaterials](#)
 - Previews will load in a moment
- [Physics](#)
 - [All Physics](#)
 - Previews will load in a moment
 - [General Physics](#)
 - Previews will load in a moment
 - [Condensed Matter](#)
 - Previews will load in a moment
 - [Optics & Photonics](#)
 - Previews will load in a moment
 - [Superconductivity](#)
 - Previews will load in a moment
 - [Plasma Physics](#)
 - Previews will load in a moment
 - [Soft Matter](#)
 - Previews will load in a moment
 - [Quantum Physics](#)
 - Previews will load in a moment
- [Space & Earth](#)
 - [All Space & Earth](#)
 - Previews will load in a moment

- [Earth Sciences](#)
 - Previews will load in a moment
- [Astronomy](#)
 - Previews will load in a moment
- [Environment](#)
 - Previews will load in a moment
- [Space Exploration](#)
 - Previews will load in a moment
- [Electronics](#)
 - [All Electronics](#)
 - Previews will load in a moment
 - [Consumer & Gadgets](#)
 - Previews will load in a moment
 - [Hardware](#)
 - Previews will load in a moment
 - [Robotics](#)
 - Previews will load in a moment
- [Technology](#)
 - [All Technology](#)
 - Previews will load in a moment
 - [Internet](#)
 - Previews will load in a moment
 - [Software](#)
 - Previews will load in a moment
 - [Business](#)
 - Previews will load in a moment
 - [Engineering](#)
 - Previews will load in a moment
 - [Semiconductors](#)
 - Previews will load in a moment
 - [Other](#)
 - Previews will load in a moment
 - [Telecom](#)
 - Previews will load in a moment
 - [Energy & Green Tech](#)
 - Previews will load in a moment
 - [Computer Sciences](#)
 - Previews will load in a moment
 - [Hi Tech & Innovation](#)
 - Previews will load in a moment
- [Chemistry](#)
 - [All Chemistry](#)
 - Previews will load in a moment
 - [Biochemistry](#)
 - Previews will load in a moment
 - [Polymers](#)
 - Previews will load in a moment
 - [Analytical Chemistry](#)

- Previews will load in a moment
- [Materials Science](#)
 - Previews will load in a moment
- [Other](#)
 - Previews will load in a moment
- [Biology](#)
 - [All Biology](#)
 - Previews will load in a moment
 - [Plants & Animals](#)
 - Previews will load in a moment
 - [Evolution](#)
 - Previews will load in a moment
 - [Ecology](#)
 - Previews will load in a moment
 - [Cell & Microbiology](#)
 - Previews will load in a moment
 - [Biotechnology](#)
 - Previews will load in a moment
 - [Other](#)
 - Previews will load in a moment
- [Medicine & Health](#)
- [Other Sciences](#)
 - [All Other Sciences](#)
 - Previews will load in a moment
 - [Mathematics](#)
 - Previews will load in a moment
 - [Archaeology & Fossils](#)
 - Previews will load in a moment
 - [Other](#)
 - Previews will load in a moment
 - [Social Sciences](#)
 - Previews will load in a moment
 - [Economics & Business](#)
 - Previews will load in a moment



- [Home](#)
- [Science News Wire](#)

Karl Deisseroth, Gero Miesenböck and Edward Boyden win Brandeis' Gabbay Award in Biotechnology

April 18th, 2013

Karl Deisseroth of Stanford University, Gero Miesenböck of the University of Oxford and Edward S. Boyden of the Massachusetts Institute of Technology have been awarded Brandeis University's 16th Annual Jacob Hessel Gabbay Award in Biotechnology and Medicine.

The researchers are being honored for their contributions to the discovery and applications of optogenetics, a technology that allows scientists to control the brain's activity by genetically engineering neurons to fire in response to light. Hundreds of labs have started using the technique to manipulate brain activity in experimental animals, exploring the neurobiology of phenomena such as decision-making and neurodegenerative diseases. The technique is expected to have significant impact on the brain initiative just announced by President Obama.

Karl Deisseroth is the D. H. Chen Professor of Bioengineering and of Psychiatry and Behavioral Sciences at Stanford University. He received his M.D., Ph.D from Stanford University School of Medicine, where he also did his internship and residency. He has been on the faculty of Stanford since 2004.

Gero Miesenböck is the Waynflete Professor of Physiology and Director of the Centre for Neural Circuits and Behaviour at the University of Oxford and a fellow of Magdalen College. He studied medicine at the University of Innsbruck and did postdoctoral work at Memorial Sloan-Kettering Cancer Center in New York. He was on the faculty of Memorial Sloan-Kettering Cancer Center, Cornell University and Yale University before coming to Oxford in 2007. He is the founding director of the Centre for Neural Circuits and Behaviour.

Ed Boyden is Associate Professor, Media Lab and McGovern Institute for Brain Research, and Departments of Biological Engineering and Brain and Cognitive Sciences at the Massachusetts Institute of Technology. He received his Ph.D. in neurosciences from Stanford University and did postdoctoral work there with Karl Deisseroth. He moved to MIT in 2006 where he is now a member of the faculty.

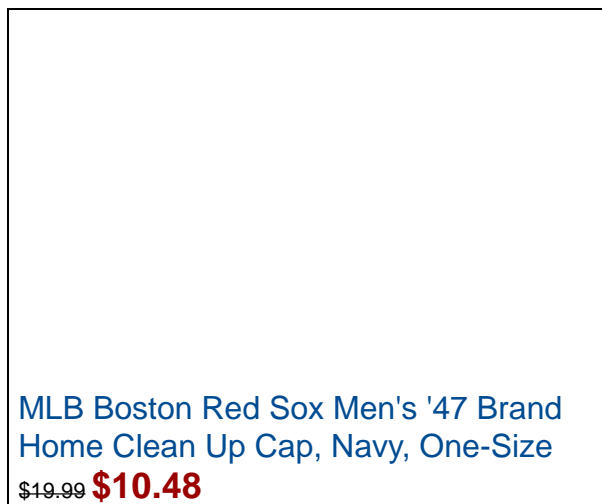
The Jacob Heskell Gabbay Award in Biotechnology and Medicine was created by the Jacob and Louise Gabbay Foundation, and is given in recognition of scientists in academia, medicine, or industry whose work has outstanding scientific content and significant practical consequences in the biomedical sciences. The history of science suggests that most scientific revolutions are sparked by advances in practical areas, such as instrumentation and techniques. This year's honorees exemplify the spirit of this award in that their laboratory observations have led to significant practical consequences.

The award, given annually, consists of a \$15,000 cash prize (to be shared in the case of multiple winners) and a medallion. The recipients travel to Brandeis University in the fall of each year and present a lecture on their work, followed by a dinner at which the formal presentation takes place. Nominations were solicited from selected scientists in industry and academia. A panel of distinguished researchers representing the biotechnology and pharmaceutical industries, as well as universities and schools of medicine, are assembled to consider nominations.

This year's symposium will take place on Thursday, October 10, at 3:30 p.m. in the Shapiro Campus Center theater. The talks are free and open to the public.

Provided by Brandeis University

[Ads by Google](#)



This Phys.org Science News Wire page contains a press release issued by an organization mentioned above and is provided to you “as is” with little or no review from Phys.Org staff.

More news stories

[Halving world hunger by 2015 'within reach', UN says](#)

Despite economic crises and dwindling aid, the UN said Monday huge progress had been made towards meeting the so-called Millennium Development Goals, including its bid to slash world hunger in half between 1990 and 2015.

[Japan firm starts Down's therapy test](#)

A Japanese pharmaceutical company said Monday it will begin therapeutic testing of a drug it hopes will slow the decline in quality of life for some people with Down's syndrome.

[Senior moment? Stereotypes about aging can hurt older adults' memory, but there's an easy fix](#)

Of the many negative stereotypes that exist about older adults, the most common is that they are forgetful, senile and prone to so-called "senior moments." In fact, while cognitive processes do decline with age, simply reminding ...

[UN urges Asia to ditch punitive laws to fight AIDS \(Update\)](#)

(AP)—U.N. health officials urged Asian governments Monday to get rid of what they say are punitive laws that hinder the battle against HIV and AIDS by discriminating against high-risk groups and deterring them from seeking ...

[ATS publishes statement on organ donation after circulatory determination of death](#)

The American Thoracic Society has released an official statement on the ethical and health policy considerations surrounding adult and pediatric controlled organ donation after circulatory determination of death (DCDD), the ...



[White man's skull has Australians scratching heads](#)

The centuries-old skull of a white man found in Australia is raising questions about whether Captain James Cook really was the first European to land on the country's east coast.



[SKorean presidential website loses data in hacking](#)

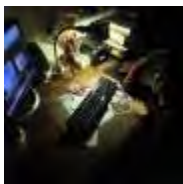
South Korea says personal information was stolen from its presidential website in a cyberattack last week that coincided with a shutdown of North Korean websites.

[India to launch satellite navigation system](#)

India will Monday launch the first stage of its domestic satellite navigation network which will eventually provide services both to civilians and the military and is similar to the US Global Positioning System, officials ...

[Nokia buys network operations from Siemens](#)

Nokia said Monday that it will buy Siemens' half of their joint network operations in a 1.7 billion euros (\$2.22 billion) deal.



[US online child privacy get stricter](#)

Toughened US regulations on online privacy for children take effect Monday, offering new protections amid the growing use of mobile apps and social networks by youngsters.

- - [Top](#)
 - [Home](#)
 - [Medical Xpress](#)
 - [Search](#)
- - [Help](#)
 - [FAQ](#)
 - [About](#)
 - [Contact](#)
- - [Phys.org Account](#)
 - [Sponsored Account](#)
 - [Newsletter](#)
 - [RSS feeds](#)
- - [Feature Stories](#)
 - [Weblog & Reports](#)
 - [Podcasts](#)
 - [Archive](#)
- - [iPhone iPad Apps](#)
 - [Blackberry App](#)
 - [Android App & Widget](#)
 - [Amazon Kindle](#)
 - [PDA version](#)

-
-
-
-
-

- [Privacy Policy](#)
- [Terms of Use](#)

© Phys.org™ 2003-2013