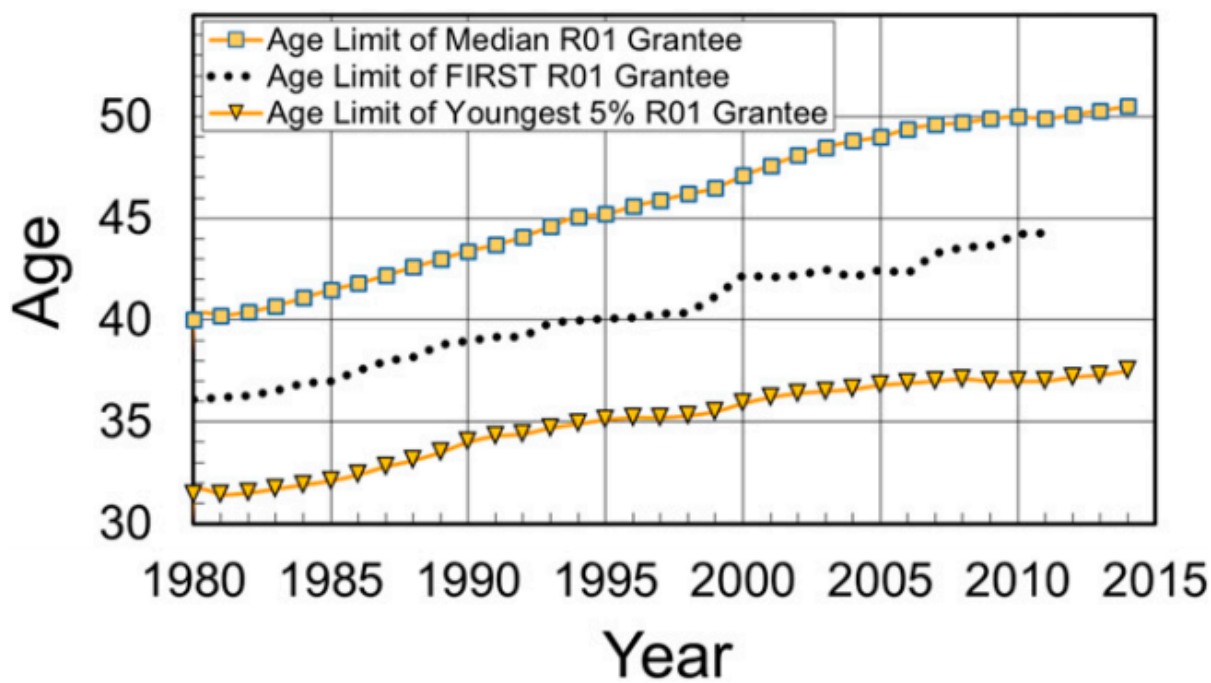


# NIH initiatives to overcome age bias in grant offerings appear to be working

June 6 2017, by Bob Yirka



This figure shows age variation of R01 grantees. The median age grows from 40 to 50, whereas that of the 5% youngest grows from 32 to 37. The average age of first-(FIR) R01 grantees is 6 y more than that of the 5% youngest, and halfway to the median age. Since 1980, US life expectancy has increased by 5 y (64).

Credit: (c) *Proceedings of the National Academy of Sciences* (2017). DOI: 10.1073/pnas.1609996114

(Phys.org)—A professor of structural biology and an informatics

researcher have together written a paper outlining age bias in grant offerings by the National Institutes of Health over the past several decades. They show how older principal investigators (PIs) have traditionally been given more grants but note that new initiatives by NIH appear to be having a positive impact. Michael and Jonathan Levitt, who happen to be brothers, have published their work in *Proceedings of the National Academy of Sciences*.

It has been a well-known issue in the science community for quite some time that older PIs have a better chance of getting a [grant](#) from the NIH than younger people. In their paper, the Levitts outline a trend that showed PIs under age 46 receiving fewer grants since 1982, while those for PIs over 55 received more of them—specifically, they found that the median age of PIs over the years 1980 to 2010 rose from 40 to 50. The bias is due to the way NIH awards grants, the authors note—committees are created to make assessments and award grants, but the members are made up of NIH grantees, which are heavily skewed toward older baby boomers. Older scientists, they suggest, find it difficult to [award](#) work to people they view as young and inexperienced.

The authors note that things have been changing. In 2008, NIH initiated the Early Stage Investigator Policy solely to address [age bias](#) in awarding grants. And in 2016, the institute launched the Maximizing Investigator's Research Award. And just last year, NIH officials announced plans to set a cap limit on the number of grants a single PI can hold at one time. As the authors note, it is still too early to tell how much of an impact the moves by NIH will have, but early signs suggest a reduced rate of increase in grants to older PIs, while the numbers granted to younger PIs has been rising. They suggest that additional efforts be made (such as dedicating more resources to transitional postdoctoral fellowships that are awarded by NIH) to encourage young people to enter the science field, noting that most Nobel laureates did their prize-winning work before the age of 40.

**More information:** Michael Levitt et al. Future of fundamental discovery in US biomedical research, *Proceedings of the National Academy of Sciences* (2017). [DOI: 10.1073/pnas.1609996114](https://doi.org/10.1073/pnas.1609996114)

## Abstract

Young researchers are crucially important for basic science as they make unexpected, fundamental discoveries. Since 1982, we find a steady drop in the number of grant-eligible basic-science faculty [principal investigators (PIs)] younger than 46. This fall occurred over a 32-y period when inflation-corrected congressional funds for NIH almost tripled. During this time, the PI success ratio (fraction of basic-science PIs who are R01 grantees) dropped for younger PIs (below 46) and increased for older PIs (above 55). This age-related bias seems to have caused the steady drop in the number of young basic-science PIs and could reduce future US discoveries in fundamental biomedical science. The NIH recognized this bias in its 2008 early-stage investigator (ESI) policy to fund young PIs at higher rates. We show this policy is working and recommend that it be enhanced by using better data. Together with the National Institute of General Medical Sciences (NIGMS) Maximizing Investigators' Research Award (MIRA) program to reward senior PIs with research time in exchange for less funding, this may reverse a decades-long trend of more money going to older PIs. To prepare young scientists for increased demand, additional resources should be devoted to transitional postdoctoral fellowships already offered by NIH.

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