Pew Biomedical Programs Informational Webinar

January 15, 2019
Objectives and Agenda

- Pew Charitable Trusts background
- Pew Biomedical Programs background
  - Pew scholars program
  - Pew-Stewart scholars program
- Timeline for upcoming 2020 award cycle
- Institutional nominee selection
- Application and grants portal
- Terms of award
- Q&A
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The Pew Charitable Trusts

• An independent nonprofit organization founded by the sons and daughters of Sun Oil Company founder Joseph N. Pew and his wife, Mary Anderson Pew, in 1948

• Mission:
  • Improve public policy by conducting rigorous analysis, linking diverse interests to pursue common cause and insisting on tangible results
  • Inform the public by providing useful data that illuminate the issues and trends shaping our world
  • Invigorate civic life by encouraging democratic participation and strong communities

• Pew’s work covers topics from public opinion research, arts and culture, the environment, health, to state and consumer policies
Pew Biomedical Programs

• Pew has a decades-long commitment to support groundbreaking research by promising early-career biomedical scientists in the United States and Latin America

  • Pew Biomedical Scholars Program
  • Pew-Stewart Scholars Program for Cancer Research
  • Pew Latin American Fellows Program

• Today, Pew-supported researchers belong to a vibrant community of close to 1000 members

- 3 Nobel Laureates
- 35 AAAS members
- 39 NAS members
- 59 HHMI Investig.
- 26 NAM members
- 5 Lasker winners
- 5 MacArthur winners
- 9 PECASE winners
Pew Biomedical Scholars Program

- The program provides funding to early-career investigators of outstanding promise in science relevant to the advancement of human health

- Founded in 1985, the program has awarded funding to 679 scholars in the biomedical sciences. For the upcoming 2020 cycle, 22 promising investigators are awarded

- The program supports independent researchers in their first 3 years of appointment at the assistant professor level

- Current grant level is $300,000; $75,000 per year for a 4-year period

- The 17-member national advisory committee provides scientific leadership to the program, reviews all applications, and identifies candidates to be recommended to Pew’s board to be named scholars

- In order to apply, individuals must be nominated from an approved academic institution
Pew-Stewart Scholars Program

• The program provides funding to early-career investigators whose research will accelerate discovery and advance progress to a cure for cancer

• Founded in 2014 through the partnership between Pew and the Alexander and Margaret Stewart Trust—the program supports five investigators each year

• The program supports independent researchers in their first 3 years of appointment at the assistant professor level

• Current grant level is $300,000; $75,000 per year for a 4-year period

• The 5-member national advisory committee provides scientific leadership to the program, reviews all applications, and identifies candidates to be recommended to Pew’s board to be named Pew-Stewart scholars

• In order to apply, individuals must be nominated from an approved academic institution
## Key Dates for the 2020 Cycle

<table>
<thead>
<tr>
<th>Month</th>
<th>Pew scholar and Pew-Stewart program</th>
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<tbody>
<tr>
<td>Late April 2019</td>
<td>Invitation sent from Pew to institutions with nomination instructions</td>
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<tr>
<td>June 14, 2019</td>
<td>Institutional nomination due</td>
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<tr>
<td>Early July 2019</td>
<td>Nominee is contacted by Pew with application information</td>
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<tr>
<td>July 15, 2019</td>
<td>Application portal opens</td>
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<td>October 10, 2019</td>
<td><strong>Pew-Stewart application portal closes</strong></td>
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<td>October 17, 2019</td>
<td><strong>Pew Scholars application portal closes</strong></td>
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<tr>
<td>Nov-Feb</td>
<td>Review in process</td>
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<tr>
<td>March 2020</td>
<td>Final selection</td>
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<tr>
<td>April 2020</td>
<td>Applicant is notified of decision</td>
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<tr>
<td>June 2020</td>
<td>Pew board approves grantees and they are publicly announced</td>
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<tr>
<td>August 2020</td>
<td>Grant is administered</td>
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**Institutional nomination: Invitation**

- In order to nominate an individual to the Pew Scholars or Pew-Stewart programs, your institution must be on our approved list
  - 184 approved institutions for the Pew Scholars program
  - 83 approved institutions for the Pew-Stewart program
- Invitations are sent to institution presidents and individuals in the sponsored research offices
- Institutions who are not on the list should contact Pew for information on making a formal request to be added
Institutional nomination: Eligibility

- Must hold a doctorate or medical degree in a field related to biomedical sciences
- Must hold full-time appointment at the rank of an assistant professor or equivalent by the application close date
  - Research Assistant Professor, Adjunct Assistant Professor, Assistant Professor Research Track, Visiting Professor or Instructor are not eligible
- Must have been in the assistant level appointment for less than 3 years as of June 14, 2019
  - 3 year limit stands regardless of changing institutions
  - There is flexibility for nominees who have taken maternity/paternity leave during the first 3-4 years of their appointment
- May be nominated *only* twice for a particular program
- The same candidate *cannot* be nominated to both the Pew scholars and Pew-Stewart program in the same year. A candidate can be nominated to Pew scholars one year and Pew-Stewart the next
- Candidates with dual appointments at affiliated institutions can only be nominated from one institution (eg: cannot be nominated by Harvard one year and Dana Farber the next)
Institutional nomination: Scope of Research

Pew scholars program

- Candidates conducting original basic and/or translational research related to the biomedical sciences are encouraged to apply
  - This includes “traditional” fields like genetics, immunology, neuroscience, cancer biology etc. However, candidates from areas such as computational science, chemistry, engineering, and physics are also strongly encouraged to apply
  - For more information on the type of research that Pew scholars are working on, please visit the scholars directory on our website: https://www.pewtrusts.org/en/projects/pew-biomedical-scholars/directory-of-pew-scholars

- Public health projects and those that are solely clinical research are not within the scope of Pew-funded research

- In the 2018 class of scholars, the following fields are represented
  - Chemistry, biophysics, virology, immunology, cancer biology, microbiology, molecular biology, neuroscience, biochemistry, computational biology, structural biology
Examples of scholars in unique fields

- Hosea Nelson, 2018 scholar, UCLA, chemistry
  - Designing systems that can catalyze chemical reactions within cells in response to changes such as gene activation

- Trevor Bedford, 2016 scholar, Fred Hutchinson, computational biology
  - Developing tools to rapidly characterize circulating viruses such as influenza to determine how they evolve and better predict seasonal strains

- Sohini Ramachandran, 2012 scholar, Brown, evolutionary biology
  - Uses mathematical modeling and computer simulations to make inferences about human population histories based on individuals’ genetic variation
Pew-Stewart program

- Proposed research for the award must be **cancer focused**
- Candidates whose work is based on biomedical principles, but brings in concepts and theories from more diverse fields related to cancer, are encouraged to apply
- For more information on the type of research that Pew-Stewart scholars are working on, please visit the Pew-Stewart scholars directory on our website: [https://www.pewtrusts.org/en/projects/pew-stewart-scholars-for-cancer-research/directory-of-stewart-scholars](https://www.pewtrusts.org/en/projects/pew-stewart-scholars-for-cancer-research/directory-of-stewart-scholars)

Criteria for both programs

- Successful applications should not look like typical R01 grant applications with incremental research steps and safe hypotheses supported by existing data
- We support truly out-of-the-box, brilliant, early-career science which may accelerate and advance progress to understanding aspects of biomedical and/or cancer research and may not be fundable through other more typical funding mechanisms
- We support the scientist, in addition to the research plan. Letters of reference and included essays are critical pieces of the application
Institutional nomination: Selection process

Program advertisement

• Award announcement should be distributed across all eligible departments and centers via web postings, announcement boards, and/or by direct email

Internal selection committee

• Institutions should convene an internal review committee for the selection of the nominee
  • Current Pew/Pew-Stewart scholars and alumni of the program make good candidates for the committee
  • The committee should be diverse and comprised of researchers from varied scientific fields
Institutional nomination: Submission

• Nominee information is submitted on SurveyMonkey. This link is within the original invitation sent to each institution.

• What do we ask for?
  • Institutional sponsored research contact information
  • Award announcement distribution method
  • Internal selection committee information
  • Nominee contact information

• A letter from departmental chair or institutional sign-off is not needed
Application and Grants Portal

- Program staff will contact the nominee directly regarding instructions for the application portal a week prior to the day the application opens.

- What is required in the application?

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<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>Curriculum Vitae info</td>
<td>Contact info, education and work experience, publications and awards</td>
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<tr>
<td>Self Assessment</td>
<td>Research contribution, novel aspect of research, and personal significance</td>
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<tr>
<td>Letters of reference</td>
<td>1. Graduate school advisor or equivalent</td>
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<td></td>
<td>2. Postdoctoral advisor or equivalent</td>
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<td></td>
<td>3. Scientific reference</td>
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<tr>
<td>Proposal</td>
<td>6 page research proposal</td>
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<tr>
<td>Publications of significance</td>
<td>Attach 3 publications and information on their significance</td>
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* We do not require budget information in our applications
Distinction and similarities between Pew scholars and Pew-Stewart programs

- Applicant eligibility is the same between the two programs

- A Pew-Stewart nominee must propose a project that is cancer-focused or relevant. The nominee can be from other departments that are not part of the cancer center, as long as his/her research is on cancer

- A Pew scholar nominee can also propose a cancer-related project

- The same candidate *cannot* be nominated to both programs in the same year. If the institution has dual nominations, it must choose a distinct nominee for each program.
  - Institutions with dual nominations will receive TWO invitations, one for each program

- Candidates are reviewed by separate advisory committees
Terms of award (Part 1)

- $75,000 per year for four years will be provided to the sponsoring institution ($300,000 total), subject to annual review of progress reports.

- Although we provide four years of funding, the grant term is 5 years, allowing an additional year to spend out the funds. If funds are not expensed entirely at the end of 5 years, the grantee may request a no-cost extension to extend one additional year.

- Financial reports on grant expenditures and narrative reports on research progress are required annually.
Terms of award (Part 2)

- The funds may be used for personnel, equipment, supplies, or travel directly related to the scholar's research
  - No more than $12,500 of the award may be used for the scholar's salary and benefits in a given year, or $50,000 total during the grant period
  - No more than 8 percent of the total award ($24,000) may be allocated for indirect costs
- Attendance at the Pew biomedical programs annual meeting is required during the duration of the award (4 years)
Questions?

Email: scholarsapp@pewtrusts.org

Pew Latin American Fellows Program webinar on February 13th
Pew Scholar National advisory committee

Craig C. Mello, Ph.D.- Chair
Investigator, Howard Hughes Medical Institute
University of Massachusetts

Jennifer Lippincott-Schwartz, Ph.D.
Janelia Research Campus,
Howard Hughes Medical Institute

Richard M. Locksley, M.D.
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Ruslan Medzhitov, Ph.D.
Investigator, Howard Hughes Medical Institute
Yale University

Markus Meister, Ph.D.
California Institute of Technology

Tom Muir, Ph.D.
Princeton University

Lee Niswander, Ph.D.
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Nipam Patel, Ph.D.
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Claude Desplan, Ph.D.
New York University

Juan Carlos Izpisua Belmonte, Ph.D.
The Salk Institute for Biological Studies

Christine Jacobs-Wagner, Ph.D.
Yale University
Pew-Stewart National advisory committee

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Harvard Medical School

Tony R. Hunter, Ph.D.  
Director, Salk Institute Cancer Center  
Salk Institute for Biological Studies

Nickolas Papadopoulos, Ph.D.  
Director of Translational Genetics  
Ludwig Center for Cancer Genetics & Therapeutics  
Sidney Kimmel Comprehensive Cancer Center

Helen Piwnica-Worms, Ph.D.  
MD Anderson Cancer Center

Louis M. Staudt, M.D., Ph.D.*  
Center for Cancer Research, National Cancer Institute  
National Institutes of Health

*Dr. Staudt is serving in his personal capacity
Pew Alumni Nomination Process

- Each May, all Pew scholar alumni are contacted by the program office and encouraged to submit a nominee they feel should apply for the program
  - Nominees are not automatically invited to apply, but rather, the nominations must go through a triage process
  - Alumni complete a 2-page nomination form which is reviewed by a committee of Pew scholars alumni

- We typically get ~100 nominations and ~35 are invited to submit an application to the program
  - Once selected, both the nominee and the institution are notified

- Nominations should not be solicited by interested applicants