



**ONE-YEAR MEDICAL STUDENT
RESEARCH FELLOWSHIP
INFORMATION**

**Prepared by
The Office of Student Research
Yale University School of Medicine**

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Professor of Medicine (Nephrology)

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The Office of Student Research was established to assist students with the planning, implementation and completion of research leading to a thesis. This office provides three types of stipend support for student investigators. These are: 1) Summer Research Stipends, 2) Short-Term Student Research Stipends, and 3) One-Year Medical Student Research Fellowships. The School encourages many students to consider a fifth year of medical school and devote it exclusively to research training. Dr. Forrest directs the NIH CTSA Multidisciplinary Pre-Doctoral Training Program in Translational Research, Doris Duke International Clinical Training Program at various international sites, the HHMI program, and Yale Endowed Fellowships. Dr. Forrest is available, by appointment, to advise and assist students in these applications.

Lauren Cohn, MD
Associate Professor of Medicine (Pulmonary)

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Dr. Cohn is a former Sarnoff Medical Student Research Award recipient. Sarnoff Fellows conduct one year of cardiovascular research at an institution, located within the United States, other than the medical school in which they are enrolled. She is available, by appointment, to discuss the Sarnoff Award and applications.

Sheela Shenoi, MD, MPH
Assistant Professor of Medicine (AIDS)

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Dr. Shenoi conducts research on HIV/AIDS and tuberculosis with a focus on resource-limited settings. Dr. Shenoi has worked in South Africa to study the epidemiology of drug resistant tuberculosis and tuberculosis infection control strategies. She currently develops and implements community-based projects that emphasize the integration of HIV and tuberculosis services to improve prevention, care and treatment for patients with HIV/AIDS and tuberculosis.

OVERVIEW OF ONE-YEAR FELLOWSHIPS

One Year Medical Student Research Fellowships

Approximately 30-35 students per year receive competitive one year medical student research fellowships funded by various sources through separate applications arranged by the Office of Student Research. The stipends vary from \$23,376 to \$34,000 per year. Sources of funding are as follows:

1. **NIH CTSA Multidisciplinary Pre-Doctoral Training Program in Translational Research**

This is a one year clinical/translational research fellowship program under the Clinical and Translational Science Award (CTSA) administered through the Office of Student Research. The program is part of the NIH Roadmap initiative to train and fund more MDs to undertake training, research projects and eventually careers focused on clinical research. Additional information and application instructions can be found at: <https://medicine.yale.edu/education/research/student/fundingop/oneyearfellowships/nihctsa.aspx>

2. **Howard Hughes Medical Institute (HHMI) at Yale**

This award is for one-year student research fellowships in basic, translational, or applied biomedical research. These applications must be reviewed by the Office of Student Research prior to submission. Website: <http://www.hhmi.org/programs/medical-research-fellows-program>

3. **Doris Duke Charitable Foundation International Clinical Research Fellowship Program for Medical Students**

The Doris Duke Charitable Foundation International Clinical Research Fellowship is for medical students conducting research at selected international sites in low or middle income countries. Up to 3 one-year fellowships will be awarded to medical students each year to study topics that significantly impact morbidity and mortality and are relevant to the international site including communicable diseases, non-communicable diseases, trauma, and maternal and child health. Students will be paired with two mentors, one at Yale and the second at the international institution. Additional information will be available in late November, 2016 at Doris Duke Charitable Foundations website at <http://www.ddcf.org/what-we-fund/medical-research/goals-and-strategies/encourage-and-develop-clinical-research-careers/international-clinical-research-fellowship/> Application requirements to the Office of Student Research will be available in late November, 2016 at <https://medicine.yale.edu/education/research/student/fundingop/oneyearfellowships/ddcf.aspx>

4. **Howard Hughes Medical Research Program at Janelia Farm**

This award is a one year fellowship in neuronal networking and/or imaging at the cellular and molecular level at the Janelia Farm Research Campus in Ashburn, Virginia. Website <http://www.hhmi.org/programs/medical-research-fellows-program>

5. **Sarnoff Award**

This is a one year fellowship in cardiovascular related research awarded to students upon application to do research at another research facility in the United States. A separate application is required. For further details please email Dr. Lauren Cohn, Internal Medicine at lauren.cohn@yale.edu. Website: http://www.sarnofffoundation.org/?page=Fellowship_Info&hhSearchTerms=Fellowship+and+Applicaionshttp://www.sarnofffoundation.org/?page=Fellowship_Info&hhSearchTerms=Fellowship+and+Applications

6. Yale Endowed One-Year Student Research Fellowships

The Office of Student Research funds named endowed research fellowships through this mechanism. A separate application is required. For additional information please either stop by or call (785-6633) the Office of Student Research. Additional information is available at the Office of Student website at <https://medicine.yale.edu/education/research/student/fundingop/oneyearfellowships/yalefellowships.aspx>

7. NIH Medical Research Scholars Program

A new training opportunity that blends the elements of two former programs (HHMI-NIH Research Scholars Program and NIH Clinical Research Training Program). This builds on the focus and goals of the NIH Clinical Research Training Program and the HHMI-NIH Research Scholars Program of training the next generation of medical researchers and providing research opportunities in basic laboratory, clinical, and translational research for medical and dental students. Website: <http://www.cc.nih.gov/training/mrsp/index.html>

8. NIH-NIDDK Medical Student Research Training Fellowship

The NIH-NIDDK Medical Student Research Training Program will support up to three medical students per year in association with NIDDK sponsored Centers and NIDDK funded training grants at Yale School of Medicine. For additional information please visit the Office of Student website at <https://medicine.yale.edu/education/research/student/fundingop/oneyearfellowships/nihtraining.aspx>

9. American Heart Association: Founders Affiliate Medical Student Research Program

The American Heart Association Health Sciences Student Research Project is designed to encourage advanced health science students to consider a career in cardiovascular research. Please contact Mary Gonzalez at MGonzalez@heart.org for additional information and application packet. Website: http://www.heart.org/HEARTORG/Affiliate/Founders-Affiliate-Local-Research-Opportunities_UCM_315885_Article.jsp

10. Global Health Equity Scholars Fellowship

The Global Health Equity Scholars Program is an initiative between Yale University, University of California at Berkeley, and Stanford and Florida International Universities, to support one year research training of post and predoctoral fellows at 12 partnering international institutions. The overall goal of the program, sponsored by the Fogarty International Center and affiliated NIH institutes (R25 TW009338), is to generate a new and young cadre of global health researchers, educators, and professionals who will be prepared to address the new challenges in global health. Website: <https://ghes.berkeley.edu/contact>

11. Gates/Cambridge

Supports 1-3 years of graduate-level research or study in any degree program at Cambridge. Eligibility: up to 30 years old; no citizenship restrictions; separate competitions for US and non-US applicants. Deadlines: October 12, 2016 for US applicants. Deadlines: December 7, 2016 for non-US citizens. For further information, see: <http://www.gatescambridge.org/about/>

12. Fulbright

Supports one year of graduate-level research, whether as part of formal degree programs or individual research projects in many of over 140 host countries. Eligibility: US citizens. Yale Deadlines: September 19, 2016 (contact Dean Richard Sleight). National Deadline: October 11, 2016. For further information, see: <http://www.yale.edu/yalecollege/academics/fellowships/competitions/list/fulbright/index.html>

13. Luce

Supports one year internships, including medical research, in Asia for applicants with little or no experience in Asia. Eligibility: US citizens; not older than 29 years of age. Yale Deadline: September 23, 2016. For further information, see <http://studentgrants.yale.edu>; www.hluce.org/lprogram.aspx

14. NIH-Marshall

Supports 2-3 years of graduate-level research or study in any degree program in the UK. Features special partnerships with Imperial College, London, and US National Institutes of Health, among others. Eligibility: US citizens; up until three years after graduating from their undergraduate institution. Yale Deadlines: August 8, 2016 (registration), August 22, 2016 (application). National Deadline: October 3, 2016. For further information, see: <http://studentgrants.yale.edu> ; www.marshallscholarship.org/

15. Rhodes

Supports 1-3 years of graduate-level research or study in any degree program at Oxford. Eligibility: restricted to citizens of the US, selected British Commonwealth countries, and Germany. US applicants may be no older than 24 years of age. Yale Deadline: August 22, 2016. For further information, see: <http://studentgrants.yale.edu>; www.rhodeshouse.ox.ac.uk

IMPORTANT:

- **Students interested in one-year medical student research fellowships are encouraged to apply for more than one source of funding.** Our office will discuss multiple funding choices with students so that they will have an excellent chance of receiving a one year medical student research fellowship. Our goal is to have every deserving Yale medical student receive funding.
- Additional information on all fellowships is available through the Office of Student Research, ESH 310. **Please note: If you are interested in applying to any of the one year medical student research fellowships, please contact Donna Carranzo at donna.carranzo@yale.edu as there may be additional forms that are required to be completed through Yale's Office of Grants and Contracts before the fellowship application can be submitted to the funding agency.**
- **ALL APPLICATIONS REQUIRE A PROGRESS LETTER FROM THE ADVISOR. (MSPE: MEDICAL STUDENT PERFORMANCE EVALUATION FORMALLY CALLED THE DEAN'S LETTER). STUDENTS SHOULD CONTACT MARY BARNEY IN THE OFFICE OF STUDENT AFFAIRS mary.barney@yale.edu by November 28, 2016**

PAST STUDENT FELLOWSHIP AWARDEES

Tsion Aberra

Class of 2017

Tsion was a National Institutes of Health (NIH) Medical Research Scholar during the 2015-2016 academic year. Project title: **The relationship between depression and subclinical atherosclerosis in psoriasis.** Yale Mentor: Dr. Nihar Desai, Department of Internal Medicine (Cardiology). Please contact Tsion at tsion.aberra@yale.edu

Melissa Herrin

Class of 2017

Melissa was a Sarnoff Fellow during the 2015-2016 academic year. Project title: **Outcomes in patients undergoing biventricular conversion following single ventricle palliation.** Yale Mentor: Dr. Mohsen Karimi, Department of Surgery (Cardiac Surgery). Please contact Melissa at melissa.herrin@yale.edu

Taber Lightbourne

Class of 2017

Taber was a NIH CTSA Multidisciplinary Pre-Doctoral Training Program in Translational Research Fellow during the 2015-2016 academic year. Project title: **The role of muscarinic m-1-RECEPTOR KCNQ CHANNEL signaling in working memory.** Mentor: Dr. Amy Arnsten, Department of Neuroscience. Please contact Taber at taber.lightbourne@yale.edu

Hiam Naiditch

Class of 2017

Hiam was a Yale Endowed Fellow during the 2015-2016 academic year. Project title: **Pharmacologic receptor antagonist-mediated neuroregeneration following spinal cord injury.** Mentor: Dr. Stephen Strittmatter, Department of Neurology. Please contact Hiam at hiam.naiditch@yale.edu

Gerneiva Parkinson

Class of 2017

Gerneiva was a Doris Duke Charitable Foundation International Clinical Research Fellow during the 2015-2016 academic year. Project title: **Prevalence and spectrum of the HBOC mutations in Trinidad and Tobago.** Mentor: Dr. Marcella Nunez-Smith, Department of Internal Medicine. Please contact Gerneiva at gerneiva.parkinson@yale.edu

Nathaniel Robinson

Class of 2017

Nathaniel was a Howard Hughes Medical Institute Medical Research Fellow during the 2015-2016 academic year. Project title: **A prevalent IDH1 mutation confers deficient DNA repair and sensitivity to PARP inhibition in glioma.** Mentor: Dr. Ranjit Bindra, Department of Therapeutic Radiology. Please contact Nathaniel at nathaniel.robinson@yale.edu

Daniel Zheng

Class of 2017

Daniel was a Yale Endowed Fellow during the 2015-2016 academic year. Project title: **Longitudinal quality of life outcomes in children during treatment for acute lymphoblastic leukemia.** Mentor: Dr. Nina Kadan-Lottick, Department of Pediatrics. Please contact Daniel at daniel.zheng@yale.edu

COMMON QUESTIONS AND ANSWERS

- Q. If I am interested in Clinical Research, which programs should I apply to?
- A. You should apply to either (or both) the NIH CTSA Multidisciplinary Pre-Doctoral Training Program in Translational Research or the Doris Duke International Clinical Research Fellowship Program. If you want to go to the NIH, you should apply to the NIH Medical Research Scholars Program.
- Q. If I am interested in Laboratory Research, which programs should I apply to?
- A. Howard Hughes Yale, or NIH Medical Research Scholars Program or Sarnoff Fellowship.
- Q. Can I apply to both the Howard Hughes Research Training Fellowships and the NIH Medical Research Scholars Program?
- A. Medical Students may apply to both.
- Q. Which program should I apply for if I want to do research at NIH in Bethesda?
- A. Medical students wishing to engage in research at NIH in Bethesda should apply to the NIH Medical Research Scholars Program
- Q. What are the essential elements for obtaining a competitive award?
- A. 1. Quality of the research environment, including record of the mentor.
2. Quality of the proposed project
3. The initiative and interest of the student
4. Overall quality of the application
- Q. Shall I apply for more than one source of funding?**
- A. YES! We encourage everyone to apply for more than one source of funding. All applicants should plan to apply to the Howard Hughes Programs, the NIH-Yale Program or the Doris Duke International Clinical Research Fellowship Program and use other means of support as a backup. NOTE: A MEDICAL STUDENT PERFORMANCE EVALUATION FORMALLY CALLED THE DEAN'S LETTER IS REQUIRED FOR ALL APPLICATIONS.**

NOTES:

**Yale University School of Medicine, Office of Student Research
One-Year Medical Student Research Fellowship Opportunities
Beginning June 1, 2017**

Award	Location of Research	Number of Awards	Stipend	Apply To	Application Due OSR	Institution Deadline
NIH CTSA Multidisciplinary Pre-Doctoral Training Program in Translational Research (TL1)	Yale	3-4	\$23,376	OSR	04/07/2017	04/07/2017
Howard Hughes Medical Institute (HHMI) Medical Research Fellows Program						
Yale	Yale	UL	\$32,000	OSR & HHMI on-line	12/12/2016 (Personal statement only)	01/11/2017
Janelia Farm	Janelia Farm Research Campus	UL	\$32,000	OSR & HHMI on-line Two-step application process	12/12/2016 (Personal statement only if submitting Final App.)	11/01/2016: Prescreening App. 01/11/2017: If submitting Final App.
Doris Duke Charitable Foundation International Clinical Research Fellowship Program for Medical Students	International	3	\$29,000	OSR & on-line		TBD
Sarnoff	Other	UL	\$32,000	Dr. Lauren Cohn		01/11/2017
Yale Endowed: Anonymous, Danowski, Gardner, Gershon, Hirsch, Rosenberg	Yale	6-8	\$23,376	OSR	04/07/2017	04/07/2017
NIH Medical Research Scholars Program	NIH	UL	\$34,000	NIH on-line		01/13/2017
NIH-NIDDK Medical Student Research Training Fellowship	Yale	UL	\$23,376	OSR	12/12/2016 & 03/10/2017	01/15/2017 & 04/15/2017
American Heart Association Founders Affiliate Medical Student Research Program	Yale	UL	\$22,000	OSR & American Heart Association	11/18/2016	12/06/2016
Global Health Equity Scholars Fellowship	International	UL	\$22,920	Apply at Yale through http://ghes.berkeley.edu/contact/		12/01/2016
Gates/Cambridge, Fulbright Luce, NIH-Marshall, Rhodes	International	For further information contact Dean Richard Sleight		Deadlines begin in late August		