

The Irving Scholars Program 2018 – 2021

Information and Application Procedure

Background. In the late 1980s, Herbert and Florence Irving created a generous endowment to support clinical and patient-oriented translational research at the Vagelos College of Physicians and Surgeons (P&S) at the Columbia University Medical Center. Part of this endowment supports the Florence and Herbert Irving clinical research career awards (“Irving Scholars”) program for junior faculty members involved in clinical research and translational research. Since the program’s inception almost 30 years ago, 125 Irving Scholars have been named; a list of these Scholars, their home departments, and the dates of their awards is attached. Starting in 2018 there will be an additional two Irving Scholar awards dedicated to faculty engaged in clinical and translational cancer research, expanding the total awards to six annually. The new awards will be integrated, reviewed and administered in a manner identical to the existing process. As before, eligible candidates must have a track record predictive of a productive career in research that directly involves patients and human derived biomaterials or directly impacts patient care and therapeutics.

Award Provisions. The term of each award is three (3) years, **beginning July 1, 2018**, with an annual contribution towards salary and fringe benefits (and/or support of research activities) of \$60,000. During the tenure of their awards, successful candidates will hold a named professorship: either a Herbert Irving Assistant Professor of (Department) or a Florence Irving Assistant Professor of (Department). Additionally, with the initiation of our Clinical and Translational Science Award (CTSA) and expanded educational and mentoring program, we expect that Irving Scholars will assist Irving Institute leaders in various, CTSA-related activities such as grant review; mentoring programs; and the development of seminars.

Eligibility Criteria. Although the Irving Scholars program is now open to applicants from all P&S clinical departments, applicants must be actively engaged in clinical and translational research, and preference will be given to deserving applicants from Dermatology, Medicine, Surgery, Urology, and those engaged in translational cancer research, in accordance with the terms and conditions of the endowment agreements. Each candidate must hold the rank of Assistant Professor at the time of application, should already have had significant involvement in patient-oriented research, and must be recommended by his/her department chair. Based on the number of faculty and previous applications, as well as in accordance with the wishes of the Irving family, each department is assigned a certain number of applicants. ***Prospective applicants must consult with their departmental chair before completing these application materials.***

****Note that, due to overlap in the terms of the award for the Louis V. Gerstner, Jr. Scholars Program and the Irving Scholars Program, faculty are eligible to hold only one of these awards at any one time.***

The applicant’s research proposal must reflect an independent, well-developed scientific initiative in clinical investigation and be one that should make significant use of the various resources of the Irving Institute. It is expected that most successful candidates will either hold awards, or will subsequently submit research applications to federal funding agencies, such as the National Institutes of Health (NIH).

Application Procedure and Deadline. The following materials must be merged into one PDF document and emailed no later than **5:00p, Friday, March 09, 2018**, to es3153@cumc.columbia.edu.

1. A complete four-page application (form attached);
2. Research proposal (not to exceed 12 pages—see instructions on Page 5 of attached application);
3. Up-to-date CV;

4. NIH-style biographical sketch (with eRA Commons Username noted);
5. Reprints of relevant publications;
6. Letter of recommendation from the applicant's Departmental Chair, including comments on the nature of the *department's own commitment to the support of the candidate for a career in clinical and translational research.*

The Irving Scholars 1987 - Present

<u>Scholar</u>	<u>Department</u>	<u>Term</u>
Vincent DeLeo	Dermatology	1987-1990
Fredi Kronenberg	Rehabilitation Medicine	1987-1990
Shonni Silverberg	Medicine - Endocrinology	1987-1993
Mitchell Benson	Urology	1988-1991
Joseph Herbert	Neurology	1988-1991
Robert Rees-Jones	Medicine	1988-1990
Alison Estabrook	Surgery	1989-1992
Mary Sano	Neurology	1989-1992
Janet Prystowsky	Dermatology	1990-1996
Mark Scheuer	Neurology	1990-1993
Steven Shea	Medicine	1990-1993
Peter Shapiro	Psychiatry	1991-1994
Brenda Mallory	Rehabilitation Medicine	1992-1995
Milton Packer	Medicine	1992-1995
Rosario Trifiletti	Neurology	1992-1994
Kirk Wilhelmsen	Neurology	1992-1995
Jonathan Aviv	Otolaryngology	1993-1996
Lars Berglund	Medicine	1993-1997
Evan Flatow	Orthopaedic Surgery	1993-1996
Cy Stein	Medicine	1993-1996
Paul Greene	Neurology	1994-1997
Steven Kaplan	Urology	1994-1997
Douglas Nordli	Neurology	1994-1998
Mehmet Oz	Surgery	1994-1997
Daniel Bloomfield	Medicine	1995-1998
Eric Heyer	Anesthesiology	1995-1998
Angela Christiano	Dermatology	1996-1999
Robert Fine	Medicine	1996-1999
Robin Goland	Medicine - Endocrinology	1996-1999
Michio Hirano	Neurology	1996-1999
Timothy Lynch	Neurology	1997-1998
Eric Collins	Psychiatry	1997-2000
Gwen Nichols	Medicine	1997-2000
Beth Printz	Pediatrics - Cardiology	1997-2000

The Irving Scholars 1987 - Present

<u>Scholar</u>	<u>Department</u>	<u>Term</u>
Anissa Abi-Dargham	Psychiatry	1998-2001
Paula Annunziato	Pediatrics	1998-2001
E. Sander Connolly	Neurosurgery	1998-2001
Jean Ford	Medicine	1998-2001
Catherine Tuck	Medicine	1998-2001
Pamela Freda	Medicine – Endocrinology	1999-2002
Rachel Miller	Medicine – Pulmonary, Allergy and Critical Care	1999-2002
Eric Rubin	Psychiatry	1999-2002
Scott Small	Neurology	1999-2002
Elliott Bennett-Guerrero	Anesthesiology	2000-2003
Julide Tok Celebi	Dermatology	2000-2003
Lawrence Kegeles	Psychiatry	2000-2003
Kyriakos Papadopoulos	Medicine	2000-2003
Tuan Vu	Neurology	2000-2003
Jessica Kandel	Surgery	2001-2004
Diana Martinez	Psychiatry	2001-2004
Yoshifuma Naka	Surgery	2001-2004
Charles Powell	Medicine	2001-2004
Gaetano Barile	Ophthalmology	2002-2005
Petra Kaufmann	Neurology	2002-2005
Steven Kawut	Medicine	2002-2005
Judith Korner	Medicine – Endocrinology	2002-2005
Michael Vitale	Orthopaedic Surgery	2002-2005
Hina Chaudhry	Medicine	2003-2006
Ali Gharavi	Medicine – Nephrology	2003-2006
Shailendra Joshi	Anesthesiology	2003-2006
Darrell Yamashiro	Pediatrics	2003-2006
R. Graham Barr	Medicine – General Medicine	2004-2007
Wendy Chung	Pediatrics	2004-2007
Pamela Flood	Anesthesiology	2004-2007
Mathew Maurer	Medicine – Cardiology	2004-2007
Guy McKhann	Neurological Surgery	2004-2007

The Irving Scholars 1987 - Present

<u>Scholar</u>	<u>Department</u>	<u>Term</u>
Sanja Jelic	Medicine – Pulmonary, Allergy and Critical Care	2005-2008
Andrew K. Joe	Medicine – Hematology and Oncology	2005-2008
Laurel Mayer	Psychiatry	2005-2008
David Owens	Dermatology	2005-2008
Michael Chiang	Ophthalmology	2006-2009
Cheryl Corcoran	Psychiatry	2006-2009
Karima Djabali	Dermatology	2006-2009
Dawn Hershman	Medicine – Hematology and Oncology	2006-2009
Julia Glade Bender	Pediatrics	2007-2010
Paolo C. Colombo	Medicine – Cardiology	2007-2010
Saadi Ghatan	Neurological Surgery	2007-2010
José A. Luchsinger	Medicine – General Medicine	2007-2010
Arianna L. Kim	Dermatology	2008-2011
David J. Lederer	Medicine – Pulmonary, Allergy and Critical Care	2008-2011
Catherine E. Monk	Psychiatry	2008-2011
Mishaela R. Rubin	Medicine – Endocrinology	2008-2011
Daichi Shimbo	Medicine – Behavioral Cardiology	2008-2011
Gloria H. Su	Otolaryngology	2008-2011
Adam Brickman	Neurology	2009-2012
Katherine Crew	Medicine and Epidemiology	2009-2012
Thomas Nickolas	Medicine - Nephrology	2009-2012
Adam Ratner	Pediatrics	2009-2012
Benjamin Spencer	Urology	2009-2012
Adi Cohen	Medicine – Endocrinology	2010-2013
Tiziano Colibazzi	Psychiatry	2010-2013
Srikala Raghavan	Dermatology	2010-2013
Nehal P. Vadhan	Psychiatry	2010-2013
Chunhua Weng	Biomedical Informatics	2010-2013
Edward D. Huey	Psychiatry	2011-2014
P. Christian Schulze	Medicine – Cardiology	2011-2014
Marcella D. Walker	Medicine – Endocrinology	2011-2014
Jason D. Wright	Obstetrics and Gynecology	2011-2014
Hannah Wunsch	Anesthesiology and Epidemiology	2011-2014
Michael T. Yin	Medicine – Infectious Diseases	2011-2014

The Irving Scholars 1987 - Present

<u>Scholar</u>	<u>Department</u>	<u>Term</u>
Roy Alcalay	Neurology	2012-2015
Alex Dranovsky	Psychiatry	2012-2015
Andrew J. Einstein	Medicine – Cardiology	2012-2015
Andrew Moran	Medicine – General Medicine	2012-2015
Julian Abrams	Medicine – Digestive and Liver Diseases	2013-2016
Benjamin Lebwohl	Medicine – Digestive and Liver Diseases	2013-2016
Melissa S. Stockwell	Pediatrics and Population and Family Health	2013-2016
June Wu	Surgery	2013-2016
Siddhartha Mukherjee	Medicine – Oncology	2014-2017
Carolyn Rodriguez	Psychiatry	2014-2015
Bret R. Rutherford	Psychiatry	2014-2017
Anne-Catrin Uhlemann	Medicine – Infectious Diseases	2014-2017
Ali Jabbari	Dermatology	2015-2018
Fay Kastrinos	Medicine – Digestive and Liver Diseases	2015-2018
Krzysztof Kiryluk	Medicine – Nephrology	2015-2018
Joanna Steinglass	Psychiatry	2015-2018
Nicholas P. Tatonetti	Biomedical Informatics	2015-2018
Annemieke de Jong	Dermatology	2016-2019
Caleb Ing	Anesthesiology	2016-2019
Ian M. Kronish	Medicine – Behavioral Cardiology	2016-2019
Utpal Pajvani	Medicine – Endocrinology	2016-2019
Matthew R. Baldwin	Medicine – Pulmonary, Allergy and Critical Care	2017-2020
Olena Mamykina	Biomedical Informatics	2017-2020
Martin Picard	Psychiatry	2017-2020
Simone Sanna-Cherchi	Medicine - Nephrology	2017-2020

APPLICATION

**The Irving Scholars Program
2018 - 2021**

Title Page

Applicant's Name

Applicant's Department

Applicant's Academic Title

Title of Research Project

Key Research Areas

This project involves cancer research: Yes No

This project involves precision medicine: Yes No

2018 - 2021 Application

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Applicant's Name

Abstract of Research Proposal (200 words or less):

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Applicant's Name

Applicant's Prior Patient-Oriented Research Experience. In addition, if you have used the Irving Institute for Clinical and Translational Research (Columbia's CTSA/Clinical and Translational Research Award) facilities prior to this application, please comment and expand upon that usage and experience in this section:

Applicant's Career Goals:

2018 - 2021 Application

The Irving Scholars Program

Applicant's Name

Other Research Support:

Current

Pending

Should an Irving Scholarship (\$60,000 annually for a three-year period) be made, how will the total funds available for research (including this award) make it possible to accomplish the research goals of this application?

The Irving Scholars Program 2018-2021 Application

Research Proposal – Please attach a research proposal organized as follows:

- A. **Specific Aims (not to exceed one page)**. State concisely the goals of the research study and summarize the expected outcome(s), including the proposed impact the results will have on the field(s) involved. List succinctly the specific objectives of the proposed research, e.g., to test a stated hypothesis; create a novel design; solve a specific problem; challenge an existing paradigm or clinical practice; address a critical barrier to progress in the field; or develop new technology.
- B. **Research Strategy (not to exceed 10 pages—references are separate)**. Organize the Research Strategy in the order specified below. Start each section with the appropriate section headings: *Significance, Innovation, Approach*.

Significance (2 pages):

- Explain the importance of the problem or critical barrier to progress in the field that the proposed project addresses. This component may include relevant background.
- Explain how the proposed project will improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields.
- Describe how the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field will be changed if the proposed aims are achieved.

Innovation (1 page):

- Explain how the application challenges and seeks to shift current research or clinical practice paradigms.
- Describe any novel theoretical concepts, approaches or methodologies, instrumentation or intervention(s) to be developed or used, and any advantage over existing methodologies, instrumentation, or intervention(s).
- Explain any refinements, improvements, or new applications of theoretical concepts, approaches or methodologies, instrumentation or interventions.

Approach (7 pages):

- Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project (unless already addressed elsewhere in this application). Include how the data will be collected, analyzed, and interpreted, as well as any resource sharing plans as appropriate.
- Discuss any preliminary studies, data, and/or experience pertinent to this application.
- Discuss potential problems, alternative strategies, and benchmarks for success anticipated to achieve the aims.
- If the project is in the early stages of development, describe any strategy to establish feasibility, and address the management of any high-risk aspects of the proposed work.¹

- C. **Finally, describe how the project can utilize the various resources of the Irving Institute for Clinical and Translational Research.**

¹ Excerpted from PHS 398 grant application instructions.