Strategies, resources, & advice on applying & getting the most from K mentored career development awards. **Network with K-holder poster authors.**

**JANUARY 25, 2016**
About Spectrum Programs

Spectrum offers university-wide programs that provide promising scholars with financial support, training and mentoring to help them initiate research that accelerates the translation of medical discoveries into better health.

**KL2 Mentored Career Development Program**
Provides senior fellows and junior faculty in health-related professions with financial support and advanced training in clinical and translational research.

**TL1 Predoctoral and Postdoctoral Research Training Program**
Provides participants with partial tuition and stipend support for a year of full-time instruction in research methods.

All program participants receive dedicated research and academic mentorship, professional workshops, study design and analysis consultations, and targeted seminars.

Applications are due **March 1, 2016.**
(https://spectrum.stanford.edu/accordions/kl2tl1-clinical-research-training-awards)

**Spectrum Pilot Grants**
These grants of up to $50,000 are awarded to investigators with bold ideas that address health-related problems through novel approaches and multidisciplinary teams. The next round of proposals are due September 2016, in the following areas. (https://stanford.io/UkuzS8)

- Drug discovery and development (SPARK)
- Medical technologies (Biodesign)
- Predictives and diagnostics (SPADA)
- Population health sciences
- Community engagement
- Stanford Learning Health Care Innovation Challenge

These programs are funded by a Clinical and Translational Science Award (CTSA) from the NIH’s National Center for Advancing Translational Sciences (NCATS).
**K-Fest Agenda**

1:00-4:30p  Monday, January 25, 2016  
Li Ka Shing Center, Berg Hall

Learn, network, and share experiences on strategies in applying for K awards, making the best of your K award, and transitioning successfully to follow-on awards.

1:00p **Introductions**

Steven Goodman, MD, PhD, MHS  
Director, Spectrum Education  
Associate Dean for Clinical and Translational Research at the School of Medicine

Harry Greenberg, MD  
Director of Spectrum, Senior Associate Dean for Research at the School of Medicine

1:10p **Fellow-to-K transition**

Tracy Rankin, PhD (via videoconference)  
Program Director, National Institute of Diabetes and Digestive and Kidney Diseases, NIH

Julia Simard, ScD  
Assistant Professor, Health Research and Policy, Epidemiology

Panel Discussion: Stanford Faculty Mentors  
*Steven Asch, MD, MPH, Professor of Medicine, General Medical Disciplines*  
*Randy Stafford, MD, Professor of Medicine, Stanford Prevention Research Center*  
*Mary Leonard, MD, Associate Dean, Maternal and Child Health; Co-Director, Spectrum Child Health*  
Moderator: *Steven Goodman, MD, MHS, PhD*

2:10p **Break and networking session**

2:20p **K to R and other awards transition**

John Boothroyd, PhD  
Professor of Microbiology and Immunology  
Associate Vice Provost of Graduate Education

Catherine Blish, MD, PhD  
Assistant Professor of Medicine, Infectious Diseases  
Senior Fellow, Stanford Center for Innovation in Global Health (CIGH)  
Assistant Director, Stanford Medical Scientist Training Program (MSTP)

Panel Discussion: Stanford Faculty Mentors  
*Sean Mackey, MD, PhD, Redlich Professor and Division Chief of Anesthesiology, Perioperative and Pain Medicine*  
*PJ Utz, MD, Professor of Medicine, Immunology and Rheumatology*  
*John Boothroyd, PhD, Professor of Microbiology and Immunology*  
Moderator: *Steven Goodman, MD, PhD, MHS*

Institutional Resources

3:15p **Poster & networking session**
2016 Stanford K-Fest Projects
*Poster locations noted with red numbers.

University-wide invited K awardees

K01 Mentored Research Scientist Development Award

The association of attributes of early life state, current state, current county, census tract and work context with prevalent hypertension among U.S. middle class workers, 1996-2012 (1)*
David Rehkopf, ScD, MPH, Assistant Professor of Medicine, General Medical Disciplines
Email: drehkopf@stanford.edu
Mentor: Dr. Mark Cullen

Immune response during Granulocytic Anaplasmosis in a mouse model lacking type I and type II interferon signaling (2)
Jennifer Johns, DVM, PhD, Assistant Professor of Comparative Medicine
Email: jljohns@stanford.edu

A population-based study of SLE pregnancy: Risks and outcomes in mother and child (3)
Julia Simard, PhD, Assistant Professor of Health Research & Policy, Epidemiology, and, by courtesy, of Medicine
Email: jsimard@stanford.edu

K08 Mentored Clinical Scientist Research Career Development Award

T-cell monitoring and immunotherapy for treating graft-versus-host disease (4)
Everett Meyer, MD, PhD, Assistant Professor of Medicine, Blood and Marrow Transplantation
Email: evmeyer@stanford.edu

miR-409-3p controls corticospinal motor neuron development by repressing the callosal CITED2/LMO4 pathway (5)
Suzanne Tharin, MD, PhD, Assistant Professor of Neurosurgery
Email: stharin@stanford.edu
Mentor: Dr. Theo Palmer

K23 Mentored Patient-Oriented Research Career Development Award

Risk factors for severe postpartum anemia after Cesarean section (6)
Alexander Butwick, MBBS, FRCA, MS, Assistant Professor of Anesthesiology, Perioperative and Pain Medicine (OB)
Email: ajbut@stanford.edu
Mentor: Dr. Lorene Nelson

Hospitalization patterns during the transition from chronic kidney disease to end-stage renal disease (7)
Tara Chang, MD, MS, Assistant Professor of Medicine, Nephrology
Email: tichang@stanford.edu
Mentor(s): Drs. Glenn Chertow and Mark Hlatky

Long-term body composition changes in antiretroviral-treated HIV-infected individuals (8)
Philip Grant, MD, Assistant Professor of Medicine, Infectious Diseases
Email: pmgrant@stanford.edu
Mentor(s): Andrew Zolopa, Professor Emeritus

The effect of vitamin D3 on markers of oxidative stress in boys with X-linked ALD (9)
Keith Van Haren, MD, Assistant Professor of Neurology, Neurology & Neurological Sciences

Risk of clinically significant chronic kidney disease following kidney cancer surgery (31)
Investigator: John Leppert MD, MS
Assistant Professor of Urology
Email: jleppert@stanford.edu
ISL1 gene targets identified using human induced pluripotent stem cell derived cardiomyocytes (10)
Jared Churko, PhD, Postdoctoral Research Fellow, Radiology
Email: jchurko@stanford.edu
Mentor: Dr. Joseph Wu

Executive function in preschoolers: Characteristics and response to treatment (30)
Irene Loe DVM, MD
Assistant Professor of Neonatal and Developmental Medicine
Email: iloe@stanford.edu

2015-2017
Safety and preliminary efficacy of the oral bisphosphonate alendronate for the treatment of osteonecrosis of the femoral head in sickle cell disease (11)
Oyebimpe Adesina, MD, Fellow, Hematology-Oncology
Email: adesina@stanford.edu
Mentor(s): Drs. Jason Gotlib and Mary Leonard

Discordant surgeon views in the management of descending thoracic aortic aneurysm: Justification for multidisciplinary aortic teams (12)
Peter Chiu, MD, Resident, Cardiothoracic Surgery
Mentor(s): Drs. Michael Fischbein and Steven Goodman

Genetic variability of HIV-1 for drug resistance assay development (13)
Dana Clutter, MD, Fellow, Infectious Diseases and Geographic Medicine
Email: dclutter@stanford.edu
Mentor(s): Drs. Robert Shafer and Steven Asch

Intensity of end of life care for adolescents and young adults with cancer: A population-based study in California showing disparities (14)
Emily Johnston, MD, Fellow, Pediatrics
Email: emilyj@stanford.edu
Mentor(s): Drs. Lee Sanders and Steven Asch

Cost-effectiveness of local therapies for inoperable, localized hepatocellular carcinoma (15)
Erqi Pollum, MD, Fellow, Radiation Oncology
Mentor(s): Drs. Daniel Chang and Douglas Owens

2014-2016
Intravenous exendin (9-39) effectively treats post-bariatric hyperinsulinemic hypoglycemia (16)
Colleen Craig, MD, Postdoctoral Research Fellow, Medicine, Endocrinology
Email: cmcraig@stanford.edu
Mentor(s): Drs. Tracey McLaughlin, Darrell Wilson and Mary Leonard

Understanding the influence of individual, and county-level socioeconomic factors on individual tobacco and alcohol use (17)
Rita Hamad, MD, MS, MPH, Instructor, Medicine, General Medical Disciplines
Email: rhamad@stanford.edu
Mentor(s): Drs. Mark Cullen, Sanjay Basu and Randall Stafford

Prospective study to characterize and treat immune-mediated indeterminate acute hepatitis and liver failure in pediatric patients (18)
Rebecca Berquist McKenzie, MD, Clinical Instructor, Pediatrics; Gastroenterology Postdoctoral Research Fellow; Gastroenterology, Hepatology and Nutrition
Email: beck1@stanford.edu
Mentor(s): Drs. John Kerner & Randall Stafford
Optimizing lung transplant benefit: Impact of the lung allocation score on post-transplant morbidity & healthcare resource utilization (19)
Joshua Mooney, MD, Fellow, Medicine, Pulmonary and Critical Care Medicine
Email: jmooney1@stanford.edu
Mentor(s): Drs. Mark Hlatky and John Morton

Evaluation of a novel thermosensitive delivery platform to administer topical therapeutics (20)
Sidhartha Sinha, MD, Instructor, Medicine, Gastroenterology and Hepatology
Email: sidsinha@stanford.edu
Mentor(s): Drs. Aida Habtezion and Daria Mochly-Rosen

Pathway crosstalk reveals a diagnostic and prognostic role of M1 macrophages in renal allograft acute rejection (21)
Tej Azad, MD Candidate
Email: tdazad@stanford.edu
Mentor(s): Drs. Purvesh Khatri and Rita Popat

Posterior segment predictors of treatment warranted retinopathy of prematurity (22)
Cassie Ludwig, MD Candidate
Email: caludwig@stanford.edu
Mentor(s): Drs. Darius Moshfeghi and Julia Simard, and Rita Popat, PhD

Using SNP-based Machine Learning Algorithms to Predict Response to Pharmacotherapy in Major Depressive Disorder (23)
Chloe O’Connell, MD Candidate
Email: chloe.oconnell@stanford.edu
Mentor: Drs. Dennis Wall & Leanne Williams

Laparoscopic sleeve gastrectomy improves biochemical cardiac risk factors (24)
Daniel Rogan, MD Candidate
Email: dtrogan@stanford.edu
Mentor(s): Drs. James Quinn & Rita Popat

Using hyperpolarized 13C magnetic resonance spectroscopy to study metabolic signatures after bevacizumab treatment of glioblastoma (25)
Zachary A. Corbin, MD, M.H.S, Fellow, Neurology and Neurological Sciences
Email: zcorbin@stanford.edu
Mentor(s): Drs. Lawrence Recht and Steven Goodman

Health worker and family caregiver hand hygiene in Bangladesh healthcare facilities: Results from a nationally representative survey (26)
Lily Ming-Sha Horng, MD, MPH, Medical Fellow, Infectious Diseases and Geographic Medicine
Email: lhorng@stanford.edu
Mentor(s): Drs. Stephen P. Luby and Yvonne Maldonado

Spectrum TL1 Trainees

2015
Pathway crosstalk reveals a diagnostic and prognostic role of M1 macrophages in renal allograft acute rejection (21)
Tej Azad, MD Candidate
Email: tdazad@stanford.edu
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Email: dtrogan@stanford.edu
Mentor(s): Drs. James Quinn & Rita Popat

Comparisons of risk prediction models in cardiac surgery: a systematic review (29)
Patrick Sullivan, MD Candidate
Email: psulliv@stanford.edu

Spectrum Novel Fellowships, Biodesign
Mentor: Paul Yock, MD

Michael Carchia, MD, Fellow (27)
Email: carchia@stanford.edu
Luis Larrazabal Martinez, MD, Fellow
Email: alesandro.larrazabal@stanford.edu

Spectrum Novel Fellowships, Clinical Excellence Research Center
Mentor: Arnold Milstein, MD

Jeff Jopling, MD, Fellow (28)
Email: jjopling@stanford.edu
Eugene Hsu, MD, Fellow
Email: germane@stanford.edu

Spectrum Novel Fellowships, Meta-Research Innovation Center at Stanford (METRICS)
Mentor: Nishita Kothary, MD

Comparisons of risk prediction models in cardiac surgery: a systematic review (29)
Patrick Sullivan, MD Candidate
Email: psulliv@stanford.edu
KL2 Mentored Career Development Program

The KL2 program offers young physician-scientists a competitive edge. First, it provides 75-percent salary support for a minimum of two years, enabling physicians to reduce their hours in the clinic and spend more time on their own research projects. KL2 awardees attend weekly sessions with clinical and methodological research mentors. In these sessions, they also receive advice on study design, grant-proposal writing, data collection and analytics, and on navigating the Stanford research environment. Second, the program offers participants full tuition support for advanced training in disciplines such as biostatistics, epidemiology, health services research, genetics, and bioinformatics.

TL1 Clinical Research Training Program

The Spectrum TL1 award is similar to the KL2 award, but it is tailored to predoctoral and selected postdoctoral trainees who seek formal training in clinical research methods. The TL1 program requires at least one year of full-time instruction. Predoctoral applicants for the TL1 award must be enrolled in a doctoral-level program, either in a clinical research-related area (e.g., a PhD in Bioinformatics) or in a combined doctoral program that includes an advanced related degree (e.g., a master’s degree in a clinical and translation research field in addition to an MD degree). Pursuing formal degree-granting work is not a requirement for postdoctoral applicants.
Spectrum is part of the Clinical and Translational Science Award (CTSA) program, funded by the National Center for Advancing Translational Sciences (Grant: UL1 TR001085) at the National Institutes of Health (NIH).