Stanford MEDICINE | Department of Medicine

Stanford Medicine Residency Research Interest Peer Group Newsletter

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Dear Colleagues,

Welcome to the Fall 2017 edition of our medicine residency research newsletter! The scholarly work done by our housestaff is nothing short of ***spectacular***. This initiative is aimed at both highlighting their exciting projects as well as informing trainees and recruits about the types of investigations being performed at Stanford. We define *research* comprehensively, as quality improvement, global health, outcomes research, medical education, clinical investigation, translational research, implementation science, qualitative studies, clinical trials, and device/service innovation all count. This newsletter will also announce courses or resources available to our residents on campus. Without further ado:

Resident Research Spotlight:

This quarter's research spotlight highlights R3 **Linda Geng**!

Tell us a little about yourself

LG: I moved from China to Sweden at a young age, and it was there, while frequently visiting my father's laboratory, where I first witnessed the fun, the joy, and the struggles of scientific discovery. My first research project was in high school using NMR spectroscopy to determine the structure of a platelet aggregation factor and have since ranged from characterizing the proteins from the anthrax bacterium to using mouse models to study the role of the innate immune system in inflammatory bowel disease. After undergraduate studies at Rice University, I joined the Medical Scientist Training Program at the University of Washington and completed my thesis training at the Fred Hutchinson Cancer Research Center under Dr. Stephen Tapscott. Together with a multinational team of scientists and clinicians, we unraveled the disease mechanism of an inherited muscular dystrophy called FSHD. It was then that I realized my passion for investigating mystery diseases.

Why Stanford?

LG: When I was interviewing for residency programs, Stanford had just been selected by the NIH to be one of the few clinical sites around the country to be part of the new Undiagnosed Disease Network (UDN). It was a unique opportunity for me to explore first-hand my passion in solving medical mysteries through team science. I initially started residency with plans to short-track, but ultimately decided to complete the full three years of clinical training due to my wonderful experience here at Stanford. Across the three teaching hospitals, we see diverse pathology that includes many fascinating and challenging clinical cases. There is great flexibility in carving out your own unique career path, and the program leadership and faculty help support your goals even if they change like mine have. Most of all, it is my diversely talented, amazingly accomplished, and genuinely compassionate co-residents who inspire me on a daily basis.

Tell us about your current QI/research activities

LG: My primary focus now is being involved with the UDN case investigations as well as helping to develop the educational aspect of the UDN and clinical genomics under the leadership of Drs. Euan Ashley (Cardiology), Matthew Wheeler (Cardiology), and Jason Hom (Hospitalist). Earlier this year, I presented a case at Medicine Grand Rounds alongside Drs. Sarada Sakamuri (Neurology) and Hannes Vogel (Pathology) about a patient I saw during my UDN/Genomics rotation who had experienced decades of exertional rhabdomyolysis finally found at Stanford to have a defect in mitochondrial fatty acid metabolism that can be treated with a simple food supplement. This case helped solidify my decision to pursue this type of work as a career. During my upcoming Chief year, my goal will be to work with the UDN and our residency leadership to further integrate this program into our training experience and to expand its clinical service.

What advice do you have for interns and residents interested in scholarly activity?

LG: Begin searching for a mentor early, one who not only shares in your scholarly passion but is also invested in your professional success. Although it may be tough early in residency to dedicate much time to actually performing the research, reading the relevant literature and formulating a solid plan with your mentor can help you hit the ground running when ready. Stanford has many avenues for finding supportive mentors and innovative projects, from our residency-specific Pathways of Distinction (PODs) to the medical school/GME-wide Stanford Society of Physician Scholars (SPSS) program. We are also directly connected to a premier university campus, where the opportunities for collaborations and interdisciplinary endeavors are truly endless.

Stanford Faculty Researcher Spotlight:

We are delighted to introduce our research newsletter's Stanford Faculty Researcher Spotlight section, in which we interview accomplished academic researchers to learn about their career paths and glean words of wisdom to guide us in our own research pursuits.

For our inaugural Stanford Faculty Researcher Spotlight, we have the privilege of speaking with **Dr. Jerome Kassirer**.

Jerome P. Kassirer, MD, is Distinguished Professor and Senior Assistant to the Dean at Tufts University School of Medicine. In editorials in the New England Journal of Medicine, and in multiple publications elsewhere, he has promoted professionalism, ethical scientific conduct, patient involvement in decision making, appropriate use of firearms, reliable assessment of the quality of healthcare, and rational approaches to medical diagnosis and decision-making. He has been critical of for-profit medicine, the abuses of managed care, political intrusions into medical decisions, and financial conflicts of interest.

His 2004 book, on financial conflict of interest in medicine, "On The Take: How Medicine's Complicity With Big Business Endangers Your Health," was published by Oxford University Press and his 2009 book, "Learning Clinical Reasoning" was published by Lippincott. His recent book, Unanticipated Outcomes: A Medical Memoir" is in press.

Dr. Kassirer served as Editor-in-Chief of the New England Journal of Medicine (1991-1999), on the American College of Physicians' Board of Governors and Board of Regents, chaired the National Library of Medicine's Board of Scientific Counselors, and is a past Chairman of the American Board of Internal Medicine. He has been elected to the Association of American Physicians, the National Academy of Medicine of the National Academy of Sciences, and the American Academy of Arts and Sciences. He currently teaches, mentors, and consults at Tufts, Yale, and Stanford Medical Schools.

Tell us a bit about yourself and the path you took to lead one of the most renowned medical journals
JK: I never aspired to be the editor of a journal, let alone arguably the most prestigious clinical journal in the world. But the experiences I had and the career paths I chose led the search committee to conclude that I would be a serious candidate. These experiences included a substantial involvement as an active clinician, stint in hands-on clinical research, involvement with editing, and research in clinical decision-making and medical cognitive science. I actually never applied for the job; committee members sought me out after one or more thought I might be suited for the task.

Residents often find themselves in a dilemma when it comes to research during their training: pursue more "bite-size" pieces (shorter timeline to carry out and publish) vs "deeper-dive" endeavors (longer timeline but potentially more impactful). How do you recommend approaching this dilemma?
JK: Digging deep early in a career is critical in establishing ability and expertise, so high quality publications in highly considered journals count for a lot. Concentrating on important projects doesn't exclude an occasional foray into an op-ed piece or a short sounding board or perspective piece. But such quick pieces must be genuinely important and not detract from the mission of outstanding research.

An often-cited standard to determine the gravitas of a peer-reviewed paper is the impact factor of the journal in which it is published. What are your opinions of this approach, and what are other metrics that can be used for assessing the impact of a publication?
JK: The impact factor is a seriously flawed indicator of a journal's worth, and it can be manipulated by a journal editor by, for example, accepting methodology articles that are likely to be highly quoted. Unfortunately, the impact factor is still widely used. There is no satisfactory substitute, and a journal's reputation often is more important. Ideally we'd like to know a lot more about individual journals: how quickly they make judgments about manuscripts, what the nature of their peer review system looks like, how much attention they pay to clarity in the editing process, and how objective they are in assessing new materials. Unfortunately, such information often resides behind closed doors.

Any parting words of advice for our residents looking to publish their scholarly works?
JK: Kassirer's ten rules:

1. Find a good mentor
2. Choose an impactful topic
3. Never compromise your data
4. Be rigorously honest about your results
5. Don't exaggerate your work wildly
6. Learn how to write clearly
7. Find someone skilled to criticize your writing
8. Take the criticism with good humor
9. Expect rejections from journals
10. Persist

Papers and Presentations:

Congratulations to the following authors for their recent publications and presentations in the past year!

Third Year Residents:

1. **Alvin S. Chen**, Bent R.E., Wheeler M.T., Knowles J.W., Haddad F., Froelicher V., Ashley E. & Perez M.V. Large Q and S waves in Lead III on the Electrocardiogram Distinguish Patients with Hypertrophic Cardiomyopathy from Athletes. Heart Rhythm Society Scientific Sessions. Chicago, IL. 2017. [Featured Poster Presentation]
2. **Alvin S. Chen** and Gavi B. IVC Filters - A Pain in the Gut? Society of General Internal Medicine. Los Angeles, CA. 2017. [Poster Presentation]
3. Hatcher S, **Connie E. Chen**, Govindarajan P. Prehospital Systolic Hypertension and Outcomes in Patients with Spontaneous Intracerebral Hemorrhage. Cureus. 2017;9(1):e998. doi: 10.7759/cureus.998. [PMID: 28280651]
4. Mao A, Mathews R, **Connie E. Chen**, Eichstaedt JC, Pendergraft TB, Manassei H, Nichols S, Miller V, Lee KJ, Osaki M, Putrino C, Bluff J, Bletcher K, Peterson ED, Wang TY. Feasibility of a Smartphone-based Health Coaching Intervention For Patient Self-management of Risk Prevention After Acute Myocardial Infarction. American Heart Association Scientific Sessions. New Orleans, LA. 2016. [Poster Presentation]
5. **Connie E. Chen**, Chen CT, Hu J, Mehrotra A. Walk-in clinics versus physician offices and emergency rooms for urgent care and chronic disease management. The Cochrane Database of Systematic Reviews. 2017. [PMID: 28211045]
6. **Connie E. Chen**, Mao A, Brady M, Murray J, Oran B, Qazilbash M, Shah N, Ahmed S, Bashir Q, Hosing C, Shpall EJ, Steele J, Champlin RE, Parmar S. Feasibility of a Smartphone-Based Health Coaching Intervention for Patient Self-Management in the Post-Chemotherapy Setting. American Society of Hematology. San Diego, CA. 2016. [Poster Presentation]
7. Wheeler M, **Linda Geng**, Kohler J, Levonian P, Witteles R, Hom J, Ford J. Effectiveness of A Dedicated Rotation in Genomics, Genetic Medicine, and Undiagnosed Diseases for Internal Medicine Residents. The American Society of Human Genetics. Orlando, FL. 2017. [Abstract]
8. **Linda Geng**, Sakamuri S, Vogel H. Recurrent Rhabdomyolysis: An Athlete's Journey to Diagnosis. Stanford Medicine Grand Rounds. Stanford, CA. 2017. [Oral Presentation]
9. Saini D, **Aaron F. Grober**, Hadley D, Froelicher V. Normal computerized Q wave measurements in healthy young athletes. Journal of Electrocardiology. 2017. [PMID: 28159337]
10. **Tomi Jun**, Yang JD, Yeh ML, Chen VL, Nguyen P, Chung M, Giama NH, Huang CF, Dai CY, Huang JF, Chuang WL, Yu ML, Roberts LR, Nguyen MH. Digestive Disease Week. Chicago, IL. 2017. [Oral Presentation]
11. **Tomi Jun**, Chen VL, Yeh M, Yang JD, Le M, Nguyen P, Nasra GH, Huang CF, Dai C, Huang J, Chuang W, Roberts LR, Yu M, Nguyen MH. Absence of cirrhosis (in 45.8%), more advanced tumor staging and poorer long-term survival in cryptogenic hepatocellular carcinoma (HCC) patients compared to patients with viral disease: results of a multicenter international cohort of 4,315 HCC patients. Asian Pacific Association for the Study of the Liver Conference. Shanghai, China. 2017. [Poster Presentation]
12. Baykaner T, Zografos T, Zaman J, Pantos I, Alhusseini M, **Rachita Navara**, Krummen DE, Narayan SM, Katritsis DG. Spatial relationship of organized rotational and focal sources in human atrial fibrillation to autonomic ganglionated plexi. International Journal of Cardiology. 2017. [PMID: 28433558]
13. Baykaner T, Zaman J, Rogers AJ, **Rachita Navara**, AlHusseini M, Borne RT, Park S, Wang PJ, Krummen DE, Sauer WH, Narayan SM. Spatial relationship of sites for atrial fibrillation drivers and atrial tachycardia in patients with both arrhythmias. International Journal of Cardiology. 2017. [PMID: 28733070]
14. **Rachita Navara**, Leef G, Shenasa F, Rogers A, Meckler G, Baykaner T, Zaman J, Brodt C, Viswanathan M, Park S, Zei P, Wang PJ, Narayan SM. Comparing Properties of Atrial Fibrillation Drivers Near Pulmonary Veins Versus Elsewhere in the Atria. 10th Annual Asia Pacific and 64th Annual Japanese Heart Rhythm Society Annual Meeting. Yokohama, Japan. 2017. [Featured Oral Presentation]
15. **Rachita Navara**, Leef G, Shenasa F, Meckler G, Kowalewski C, Baykaner T, Alhusseini M, Hossainy S, Joshi V, Rogers AJ, Zaman J, Park S, Zei P, Wang P, Narayan S. Drivers of Atrial Fibrillation: Do Focal or Rotational Regions Differ in their Stability over Time? 39th Annual European Society of Cardiology Scientific Congress. Barcelona, Spain. 2017. [Moderated Poster Presentation]
16. **Rachita Navara**, Leef G, Shenasa F, Rogers A.J., Meckler G, Baykaner T, Zaman J, Brodt C, Viswanathan M, Park S, Zei P, Wang P.J., Narayan S.M. Do Atrial Fibrillation Drivers Near Pulmonary Veins Have Unique Properties Compared to Drivers at Other Locations? 38th Annual Heart Rhythm Society Scientific Meeting. Chicago, IL. 2017. [Oral Presentation]
17. Baykaner T, **Rachita Navara**, Zaman J, Kowalewski C, Narayan S.M., Wang P.J. Clinical Outcomes of Atrial Fibrillation Driver Ablation: A Systematic Review. 38th Annual Heart Rhythm Society Scientific Meeting. Chicago, IL. 2017. [Oral Presentation]
18. Baykaner T, **Rachita Navara**, Rogers A, Narayan SM, Turakhia M, Wang PJ, Vishwanathan M, Zei P, Perez M. Two Separate Atrial Tachycardias Arising From Both Pulmonary Vein Anastomoses In A Double Lung Transplant Recipient. 38th Annual Heart Rhythm Society Scientific Meeting. Chicago, IL. 2017. [Poster Presentation]
19. **Rachita Navara**, Leef G, Shenasa F, Kowalewski C, Baykaner T, Zaman J, Wang P.J., Narayan S.M. Proposed Mechanism for Termination of Atrial Fibrillation by Pulmonary Vein Ablation Prior to Isolation: Eliminating Rotational Drivers. European Cardiac Arrhythmia Society 13th Annual Scientific Congress. Rome, Italy. 2017. [Oral Presentation]

20. **Rachita Navara**, Leef G, Shenasa F, Rogers A.J., Meckler G, Baykaner T, Zaman J, Brodt C, Viswanathan M, Wang P.J., Narayan S.M. Do Atrial Fibrillation Sources Near Pulmonary Veins Have Unique Properties Compared to Sources at Other Locations? European Cardiac Arrhythmia Society 13th Annual Scientific Congress. Rome, IT. 2017. [Poster Presentation]
21. **Rachita Navara**, Meckler G, Kowalewski C, Shenasa F, Baykaner T, Zaman J, Alhusseini M, Hossainy S, Krummen D, Brachmann J, Viswanathan M, Park S, Turakhia M, Wang P.J., Narayan S.M. What Explains Atrial Fibrillation Mechanisms at Sites Where Ablation Terminates Persistent Atrial Fibrillation Prior to Pulmonary Vein Isolation? 23rd Annual International AF Symposium. Orlando, FL. 2017. [Poster Presentation]
22. **Rachita Navara**, Leef G, Shenasa F, Kowalewski C, Meckler G, Baykaner T, Rogers A.J., Zaman J, Park S, Zei P, Wang P.J., Narayan S.M. Drivers of Persistent Atrial Fibrillation: Do Focal or Rotational Regions Differ in Stability over Time? 23rd Annual International AF Symposium. Orlando, FL. 2017. [Poster Presentation]
23. Luo D, de Morree A, Boutet S, Quach N, Natu V, **Arjun Rustagi**, Rando TA. Deltex2 represses MyoD expression and inhibits myogenic differentiation by acting as a negative regulator of Jmjd1c. Proceedings of the National Academy of Sciences of the United States of America. 2017. [PMID: 28351977]
24. **Kai E. Swenson**, Dziura JD, Aydin A, Reynolds J, Wira CR III. Evaluation of a novel 5-group classification system of sepsis by vasopressor use and initial serum lactate in the emergency department." Internal and Emergency Medicine. 2017. [PMID: 28132131]
25. Benamu, E, Yu, A, **Lijia Xie**, Fernandez-Pol, S, Liu, AY, Ho D. Scedosporium infection of the urinary system with a review of treatment options and cases in the literature. Transplant Infectious Disease. 2017.
26. **Lijia Xie**, Eyre, SL, Barker, J. Domestic Violence Counseling in Rural Northern China: Gender, Social Harmony, and Human Rights. Violence Against Women. 2017.
27. **Timothy Yen**, Chen FW, Witteles RM, Liedtke M, Nguyen LA. Clinical Implications of Gastrointestinal Symptoms in Systemic Amyloidosis. Neurogastroenterology & Motility. 2017.
28. **Ilana R. Yurkiewicz**, Periyakoil VJ, Klein L, Shieh L. Improving Advance Care Planning in Hospitalized Patients with a Letter Project. Society of Hospital Medicine. Las Vegas, NV. 2017. [Poster Presentation]
29. **Ilana R. Yurkiewicz**, Periyakoil VJ, Klein L, Boatwright E, Shieh L. Can a patient-to-doctor letter communicate end of life wishes better than a traditional advance directive? Stanford Medicine X. Palo Alto, CA. 2017. [Poster Presentation]

Second Year Residents:

1. **Julia J. Chang**, Bena J, Kannan S, Kim J, Burguera B, Kashyap SR. Limited Carbohydrate Refeeding Instruction for Long-Term Weight Maintenance Following a Ketogenic, Very-Low-Calorie Meal Plan. Endocrine Practice. 2017. [PMID: 28225305]
2. Grosz AM, Gutierrez D, Lui AA, **Julia J. Chang**, Cole-Kelly K, Ng H. A Student-Led Introduction to Lesbian, Gay, Bisexual, and Transgender Health for First-Year Medical Students. Family Medicine. 2017. [PMID: 28166581]
3. **Nicholas R. Degner**, Wang JY, Golub JE, Karakousis PC. Metformin use reverses the increased mortality associated with diabetes mellitus during tuberculosis treatment. Clinical Infectious Diseases. 2017.
4. **Nicholas R. Degner**, Wang JY, Golub JE, Karakousis PC. The Effect of Diabetes and Comorbidities on Tuberculosis Treatment Outcomes. American Thoracic Society 2017 International Conference. Washington, D.C. 2017. [Poster Presentation]
5. **Nicholas R. Degner**, Wang JY, Golub JE, Karakousis PC. Diabetes Increases Mortality During Tuberculosis Treatment and Metformin Use Reverses This Effect. The 48th Union World Conference on Lung Health. Guadalajara, Mexico. 2017. [Oral Presentation]
6. **Michael D. Genualdi**, Lebovics E, Frishman WH. Novel Oral Anticoagulants in the Peri-Endoscopic Period. Cardiology in Review. 2017. [PMID: 28604566]
7. **Michael D. Genualdi**, DeBaun M, Spinner M, Berube C, Amanatullah, D. Spontaneous heparin-induced thrombocytopenia following orthopaedic surgery: case report and review of the literature. ACP Northern California Chapter Meeting. Walnut Creek, CA. 2017. [Poster Presentation]
8. **Gilad Jaffe**, Gomathi Krishnan, Margaret Stedman, GM Chertow, JT Leppert, Vivek Bhalla. Screening Rates for the Diagnostic Workup of Resistant Hypertension. AHA Council on Hypertension and American Society of Hypertension Joint Scientific Sessions. San Francisco, CA. 2017. [Abstract and Poster Presentation].
9. **Vanessa E. Kennedy**, Chen H, Savani BN, Greer J, Kassim AA, Engelhardt BG, Goodman S, Sengsayadeth S, Chinratanalab W, Jagasia M. Optimizing Anti-Thymocyte Globulin Dosing for Unrelated Donor Allogeneic Hematopoietic Cell Transplant Based on Recipient Absolute Lymphocyte Count. Biology of Blood and Marrow Transplant. 2017. [PMID: 28864139]
10. Epperla, N, Ahn KW, Ahmed S, Jagasia M, DiGilio A, Devine SM, Jagloski S, **Vanessa E. Kennedy**, Rezvani AR, Smith SM, Sureda A, Fenske TS, Kharfan-Dabaja MA, Armand P, Hamadani M. Rituximab-containing Reduced-intensity Conditioning Improves Progression-Free Survival following Allogeneic Transplantation in B-cell Non-Hodgkin Lymphoma. Journal of Hematology and Oncology. 2017. [PMID: 28606176]
11. Hamilton BK, Rybicki L, Abounader D, Adekola K, Advani A, Aldoss I, Bachanova V, Bashey A, Brown S, DeLina M, Devine S, Flowers CR, Ganguly S, Jagasia M, **Vanessa E. Kennedy**, Kim D, McGuirk J, Pullarkat V, Romee R, Sandhu K, Smith M, Ueda M, Viswabandya A, Vu K, Wall S, Zeichner SB, Perales MA, Majhail NS. Allogeneic Hematopoietic Cell Transplantation for Adult T-Cell Acute Lymphoblastic Leukemia (T-ALL). Biology of Blood and Marrow Transplant. 2017. [PMID: 28396160]

12. Robinson JR, **Vanessa E. Kennedy**, Doss Y, Bastarache L, Denny J, Warner JL. Defining the Complex Phenotype of Severe Systemic Loxoscelism Using a Large Electronic Record Cohort. PLoS ONE. 2017. [PMID: 28422977]
13. Wallach JD, **Patrick G. Sullivan**, Trepanowski JF, Sainani KL, Steyerberg EW, Ioannidis JP. Evaluation of evidence of statistical support and corroboration of subgroup claims in randomized clinical trials. JAMA Internal Medicine. 2017. [PMID: 28192563]
14. **Termglinchan V**, Seeger T, Chen C, Wu JC, Karakikes I. Efficient Genome Editing in Induced Pluripotent Stem Cells with Engineered Nucleases In Vitro. Methods in Molecular Biology. 2017. [PMID: 27910041]
15. **Termglinchan V**, Karakikes I, Cepeda DA, Lee J, Diecke S, Hendel A, Itzhaki I, Ameen M, Shrestha R, Wu H, Ma N, Shao NY, Seeger T, Woo N, Wilson KD, Matsa E, Porteus MH, Sebastiano V, Wu JC. A Comprehensive TALEN-Based Knockout Library for Generating Human-Induced Pluripotent Stem Cell-Based Models for Cardiovascular Diseases. Circulation Research. 2017. [PMID: 28246128]
16. Chen C, **Termglinchan V**, Karakikes I. Concise Review: Mending a Broken Heart: The Evolution of Biological Therapeutics. Stem Cells. 2017. [PMID: 28233392]
17. **James E. Tooley**, Poole, S, Downing NL. A Patient Portal Influenza Vaccination Reminder: A Randomized Study of Three Behavioral Messages. Big Data in Biomedicine Conference. Stanford, CA. 2017. [Poster Presentation]
18. **Bo Wang**, Svec D. Physicians and blocking: can we tear down this wall? Postgraduate Medical Journal. 2017. [PMID: 28814572]
19. **Bo Wang**, Studdert DM, Sarpatwari A, Franklin JM, Landon J, Kesselheim AS. The effect of federal and state off-label marketing investigations on drug prescribing: the case of olanzapine. PLoS ONE. 2017. [PMID: 28388667]
20. Rathi VK, **Bo Wang**, Ross JS, Downing NS, Kesselheim AS, Gray ST. Clinical evidence supporting US Food and Drug Administration approval of otolaryngologic prescription drug indications, 2005-2014. Otolaryngology-Head and Neck Surgery. 2017. [PMID: 28116974]
21. Rathi VK, **Bo Wang**, Ross JS, Downing NS, Kesselheim AS, Gray ST. Clinical evidence supporting US Food and Drug Administration premarket approval of high-risk otolaryngologic devices, 2000-2014. Otolaryngology-Head and Neck Surgery. 2017. [PMID: 28093943]
22. Hwang TJ, Carpenter D, Lauffenburger JC, **Bo Wang**, Franklin JM, Kesselheim AS. Outcomes and reasons for failure of investigational therapeutics and vaccines in late-stage clinical development. JAMA Internal Medicine. 2016. [PMID: 27723879]

First Year Residents (Interns):

1. Staley C, Kaiser T, Beura LK, Hamilton MJ, **Alexa R. Weingarden**, Bobr A, Kang J, Masopust D, Sadowsky MJ, Khoruts A. Stable engraftment of human microbiota into mice with a single oral gavage following antibiotic conditioning. Microbiome. 2017. [PMID: 28760163]
2. Goodson JM, **Chad S. Weldy**, MacDonald JW, Liu Y, Bammler TK, Chien WM, Chin MT. In utero exposure to diesel exhaust particulates is associated with an altered cardiac transcriptional response to transverse aortic constriction and altered DNA methylation. The FASEB journal: official publication of the Federation of American Societies for Experimental Biology. 2017. [PMID: 28751527]

Recent Graduates:

1. **Andrew Y. Chang**, Nabaale, H, Nalubwama, I. Ssinabulya, E. Okello, C. Longenecker, A. Webel. Characteristics and Motivations of Women of Reproductive Age in Uganda with Rheumatic Heart Disease: A Mixed Methods Study. Consortium of Universities for Global Health Annual Meeting. Washington D.C. 2017. [Abstract]
2. Wang L, Miyahira AK, Simons D, Lu X, **Andrew Y. Chang**, Wang C, Suni M, Maino VC, Dirbas FM, Yim JH, Waisman J, Lee PP. IL-6 Signaling in Peripheral Blood T Cells Predicts Clinical Outcome in Breast Cancer. Cancer Research. 2016. [PMID: 27879265]
3. **Frank W. Chen**, Sundaram V, Chew TA, Ladabaum U. (2017), Advanced-stage colorectal cancer in persons younger than 50 years not associated with longer duration of symptoms or time to diagnosis. Clinical Gastroenterology and Hematology. 2017. [PMID: 27856366]
4. Caswell-Jin JL, **Tanya Gupta**, Hall E, Petrovchich IM, Mills MA, Kingham KE, Koff R, Chun NM, Levonian P, Lebensohn AP, Ford JM, Kurian AW. Racial/ethnic differences in multiple-gene sequencing results for hereditary cancer risk. Genetics in Medicine. 2017. [PMID: 28749474]
5. Gulati G, **David Ouyang**, Ha R, Banerjee D. Optimal timing of same-admission orthotopic heart transplantation after left ventricular assist device implantation. World Journal of Cardiology. 2017. [PMID: 28289529]
6. **David Ouyang**, Gulati G, Banerjee D. Incidence and Outcomes of Acute Circulatory Support Prior to Heart Transplantation. International Society for Heart & Lung Transplantation 37th Annual Meeting and Scientific Sessions. San Diego, CA. 2017. [Oral Presentation]
7. Gulati G, **David Ouyang**, Banerjee D. Differential survival benefit of IABPs and PVADs by procedural timing and clinical indication. American College of Cardiology's 66th Annual Scientific Session. Washington D.C. 2017. [Oral Presentation]
8. Sing D, **David Ouyang**, Hu S. Gender Trends in Authorship of Spine-Related Academic Literature – A 38-Year

Perspective. North American Spine Society 31st Annual Meeting. Boston, MA. 2016. [Oral Presentation]

9. **Nilay S Shah**, Leonard D, Finley CE, Rodriguez F, **Ashish Sarraju**, Barlow CE, DeFina LF, Willis BL, Haskell WL, Maron DJ. Dietary Patterns and Long-Term Survival: A Retrospective Study of Healthy Primary Care Patients. The American Journal of Medicine. 2017. [PMID: 28860032]
10. Knowles JW, **Ashish Sarraju**. Is ACS in Young Patients a "Canary in the Coal Mine" for Familial Hypercholesterolemia? Journal of the American College of Cardiology. 2017. [PMID: 28958331]
11. Kohli P, Knowles JW, **Ashish Sarraju**, Waters DD, Reaven G. Metabolic Markers to Predict Incident Diabetes Mellitus in Statin-Treated Patients (from the Treating to New Targets and the Stroke Prevention by Aggressive Reduction in Cholesterol Levels Trials). American Journal of Cardiology. 2016. [PMID: 27614854]
12. Yong C, **Leo Ungar**, Abnousi F, Asch SM, Heidenreich P. Racial Differences in Quality of Care and Outcomes among Patients with Acute Coronary Syndrome. American College of Cardiology's 66th Annual Scientific Session. Washington D.C. 2017. [Oral Presentation]
13. Rodriguez F, Hellkamp A, **Leo Ungar**, Becker RC, Berkowitz SD, Breithardt G, Fox KA, Hacke W, Halperin JL, Hankey GJ, Nessel CC, Piccini JP, Singer DE, Patel M, Mahaffey KW. Implications of Patient-Reported Treatment Satisfaction for Discontinuation of Rivaroxaban versus Warfarin in ROCKET AF. Quality of Care and Outcomes Research (QCOR) in Cardiovascular Disease and Stroke. Alexandria, VA. 2017. [Poster Presentation]

Methods, Materials, Mentors:

- Please see http://lane.stanford.edu/classes-consult/laneclasses.html for a list of upcoming research courses offered by Lane Library. Many of these classes are incredibly helpful, including advanced PubMed use, Data Visualization, SQL, Systematic Review Methodology, MATLAB, Introduction to R, and EndNote/Zotero/Mendeley among many others. Highly recommended!

Speeches, Seminars, Sessions:

- 2018 Society of General Internal Medicine Regional Meeting: January 20, 2018. Li Ka Shing Learning and Knowledge Center, Stanford University, Stanford, CA. More information at: http://www.sgim.org/meetings/regional-meetings/california-hawaii

If you have academic or innovation activities that you'd like to have highlighted in the newsletter (or know of work other residents or recent graduates have taken part in) please e-mail us at bwang18@stanford.edu. These include publications of any authorship status (first, second, third, etc.), presentations, QI projects, patents, etc. **If your research was not recognized this edition, please e-mail us, so we can include it next time.** Also, feel free to send us any interesting courses, lectures, or resources you find out about on campus. If you are interested in helping out with the research interest peer group or the newsletter, please contact us at the e-mail address listed above. Thanks for reading!

Best,
Stanford Internal Medicine Research Interest Peer Group Steering Committee
Co-Leads: Bo Wang, Jimmy Tooley
Advisory Committee: Andy Chang, Linda Geng, Ashish Sarraju

If you have research you'd like to have highlighted in the newsletter (or know of work other residents or recent graduates have taken part in) please make sure to email us at bwang18@stanford.edu. If you are interested in helping out with the research interest peer group or the newsletter, please contact us at the e-mail listed above.

"To have striven, to have made the effort, to have been true to certain ideals – this alone is worth the struggle."
– Sir William Osler