



THE GSCHRONICLES

The Official Newsletter of the NIH Graduate Student Community

December 2017

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Upcoming Events

Finding Mentors And Building Networks

December 1, 2017 12:00 pm - 1:00 pm

Graduate Student Lounge, Building 10 Room 1N263

VFC Science Voices From Home: Sweden

December 4, 2017 9:00 am - 10:00 am

Building 50, Room 1328

OITE Orientation For Graduate Students And Postdoctoral Fellows

December 5, 2017 8:30 am - 10:00 am

Building 35, Room 610

Speaking Up: How To Ask For What You Need In The Lab And In Life

December 5, 2017 10:00 am - 12:00 pm

Building 40, Room 1201

Workplace Dynamics V: Diversity In A Multicultural Society

December 5, 2017 1:00 pm - 4:00 pm

Building 35, Room 640

Twinbrook: Workplace Dynamics III And IV (Conflict And Teams)

December 6, 2017 3:00 pm - 5:00 pm

12735 Twinbrook Parkway TW3/2E-06

OITE Holiday Party For Trainees

December 8, 2017 3:00 pm - 4:30 pm

Building 10, FAES Terrace

Networking For Your Career

December 11, 2017 2:00 pm - 4:30 pm

Building 35, Room 610

BALTIMORE: Planning For Career Satisfaction And Success

December 14, 2017 10:00 am - 11:30 am

Baltimore BRC: Room 3C211

FREDERICK: Personal Branding For Your Career

December 14, 2017 10:00 pm - 11:30 am

Frederick: 549/Auditorium

NIH SACNAS (Society For The Advancement Of Chicanos/Hispanics & Native Americans

In Science) Chapter Monthly Meeting:

Networking Holiday Potluck

December 14, 2017 12:00 pm - 1:30 pm

Building 50, Room 1227

Frederick: Workplace Dynamics III And IV (Conflict And Teams)

December 18, 2017 10:00 am - 11:30 am

Frederick: 549/Conf B

WEEKLY EVENTS

Mindfulness Meditation

Every Tuesday at noon and Thursday at 5pm in the Graduate Student Lounge, Building 10, Room 1N263

Michael & Julia are now leading two opportunities each week to take some time to connect with yourself and practice self-care!

Fridays with Phil(s)

Every Friday, 11am-12pm in the Graduate Student Lounge Building 10, Room 1N263

Ever wish you still had office hours so you can drop in and get questions answered or just chat about whatever with a program director? Well, Fridays from 11AM to noon Phil Ryan and occasionally Phil Wang will be in the Graduate Student Lounge for "Fridays with Phil(s)."

Yoga Class

John Edward Porter
Neuroscience Research Center
Building 35A, 3rd floor hallway facing the windows

Get out of lab for an hour and join fellow NIHers for a weekly free yoga class! There will be music, and good vibes. Every level is more than welcome, whether you are an absolute beginner or advanced practitioner. So grab your yoga mat and relax during lunch time!

Email Tara at f.zinnamon@gmail.com to join the email list & find out more!

An Update from GSC

The Graduate Student Council (GSC) has been up to quite a lot this year! GSC is made up of six committees: Social Committee, Community Service/Outreach/Mentorship Committee, GS3 Committee, FAES Liaison, Felcom Liaisons, and Public Relations Committee. All of these committees work hard to help create a better environment and community for the graduate students at the NIH. We hope you have been able to join us at our events or have attended the various informational/eye-opening seminars we've hosted. If you are interested in getting involved in the Graduate Student Council, be sure to email the GSC co-chairs at GSCco-chair@od.nih.gov.

Sincerely,
Carly & Keyla
2017 GSC Co-chairs

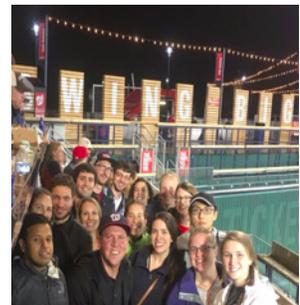
GSC Committee Update

Social Committee

The Social Committee organizes a variety of events for graduate students in order to foster the student community at the NIH. The social committee has kept busy hosting events throughout the year designed especially for our graduate students.

We've had bi-weekly social hours at various venues throughout Bethesda. We also success with our other events, including baseball games, a camping trip, jazz in the garden, and our Annual Summer BBQ. To encourage healthy habits we also started weekly yoga classes led by a fellow GPP student on campus.

Be sure to join us at our bi-weekly social hours and keep posted for our upcoming Annual Holiday Party event! We always welcome any ideas for other types of events to host, so feel free to let us know!



Community Service/Outreach/Mentor Committee

The Community Service committee members organize a wide variety of opportunities to get involved at the NIH and in our surrounding communities. We have had great turnouts at our bi-monthly Manna Food Bank volunteering events.

Outreach/Mentoring committee members coordinate outreach events for graduate students, allowing them to get involved judging local high school science fairs, lead kid-friendly science activities at the NIH Take Your Child to Work Day festivities, and tutor middle and high school students. We are also working to organize Mentor Lunches as an informal setting to get a chance to talk with NIH investigators. Be sure to stay tuned for details on upcoming lunches, a great opportunity to hear more about the lifestyles and career paths of Primary Investigators at the NIH.



FAES

The Foundation for Advanced Education in the Sciences (FAES) liaisons represent the GSC at FAES board meetings and communicate the needs and concerns of the graduate student community to the FAES board. This year, Christina Farias of FAES attended a Graduate Student Council meeting to answer questions about insurance, finances, and much more.

FAES is also responsible in providing us the awesome Graduate Student Lounge in Building 10, Room 1N263. If you haven't checked it out, be sure to go grab a free cup of coffee and take a break in there!!

GS3

The Graduate Student Seminar Series (GS3) is a monthly event where graduate students present their research and get feedback! The GS3 provides a formal, yet supportive, environment where you can discuss your work, refine your presentation skills, and receive detailed feedback from fellow graduate students. We have had some awesome talks throughout the year hearing from our graduate students in multiple fields across the NIH. Be sure to join us for our upcoming GS3 talks. The GS3 talks are held in Building 10, Room 1N263, at 5:00 pm on the last Tuesday of every month.

We are currently looking for new speakers for the upcoming 2018 year. If you are interested in presenting or have any questions about the GS3, please contact Justin Demmerle (justin.demmerle@nih.gov).

Felcom

The Graduate Student Council's FelCom Liaisons are responsible for attending the monthly GSC and FelCom meetings, representing the graduate students, and help keep the Felcom fellows connected with the graduate student community. Be sure to attend the joint events with Felcom and the graduate students for great networking opportunities!

Public Relations

The Public Relations committee has provided the advertising for the various events of the graduate student community, including social events, mentoring/community service and outreach, and the monthly GSC meetings, as well as the annual retreat and symposium. Be sure to keep up-to-date with graduate student events by joining the Facebook group: Graduate Student Underground. The PR committee is also responsible for compiling and distributing The GSChronicles, the newsletter by graduate students, for graduate students!

We hope you have enjoyed our newsletters and we are always looking for new ideas to implement. If you would like to join our team or have any feedback about the newsletter, please email us at GSChronicles@gmail.com

PhDs in the 'Real World'



The GSC has hosted several guest speakers as part of the “PhDs in the Real World” series. This series informs the graduate students about non-traditional career paths that are possible with a PhD. Five GPP alumni have discussed their experiences in the GPP, how they landed a job, and what their chosen career paths have entailed. Dr. Vania Cao related her experiences working in industry at a Neurotech startup. She also discussed her new Free the PhD campaign. Dr. Katie Fox explained how she became a lecturer at the University of Maryland. Dr. Rima Adler described her job at Miltenyi Biotec. Dr. Tina Tung told us about her career trajectory, from her initial role working in industry to her current job as a grant reviewer with Center for Scientific Review. Dr. Tracy Jill Doty explained her career path towards her current position as a civilian research scientist in the military.



All of these awesome GPP alumni have given us a glance at the vast opportunities available to NIH graduate students post-PhD. If you have further questions about their various career paths, please feel free to contact them.

Dr. Vania Cao: Free the PhD

Dr. Katie Fox: caitlinmoirafox@gmail.com.

Dr. Rima Adler: rima.adler@miltenyibiotec.com.

Dr. Tina Tung: tze-tsang.tang@nih.gov

Dr. Tracy Jill Doty: tracy.j.doty2.civ@mail.mil



Be sure to stay tuned for upcoming installments!

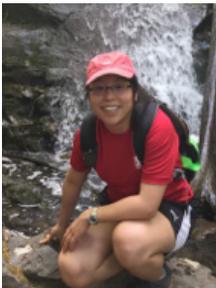
New GSC Members



Albert (Community Service/Mentoring/Outreach): I am a fourth year graduate student at UCLA conducting my dissertation research in the National Institute of Allergy and Infectious Disease. I'm interested in all things eosinophils! In my spare time, I like to read, travel, and catch up with friends.



Dana (PR-The GSChronicles): I am a first year graduate student in the George Washington GPP studying molecular medicine and neuroscience. I'm interested in studying the circuitry of neuropsychiatric conditions, and particularly the overlap between disorders that occurs at a cell-specific level. I am a travel and language enthusiast, always planning my next trip. Next up- Austria!



Ruby (Social Committee): I am a second year Graduate Student in the GPP with Brown University. I study touch and pain related sensory systems in NCCIH. Outside of lab, I will most likely be found outside backpacking, biking or bird-ing. I'm originally from San Francisco California and am thoroughly enjoying the completely flat bike trails in DC/Montgomery county.



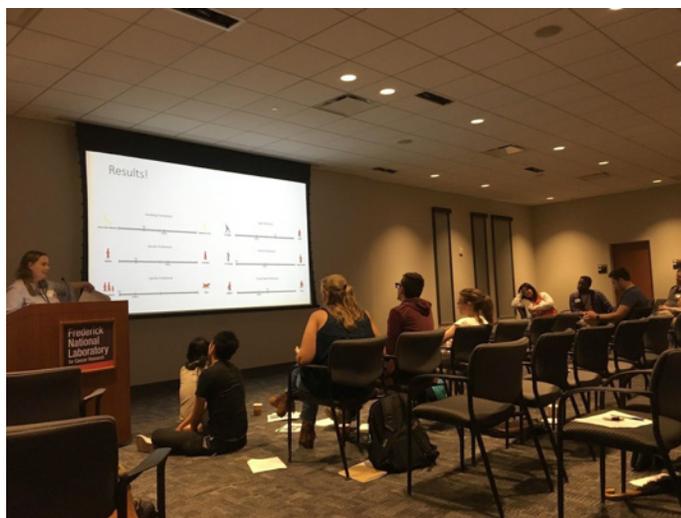
François (Community Service): I am a third year graduate student in the GPP with Université Libre de Bruxelles in Belgium. I am currently studying the role of a 3'UTR-derived sRNA from genes encoding TCA proteins in bacteria's carbon starvation response. Outside the lab, I enjoy hanging out with friends in DC, having Korean food and/or bubble tea, working out and traveling as much as I can!

Tara (Social Committee): not pictured

Jing (Social Committee): not pictured

Retreat Recap

The Graduate Partnership Program's Annual Scientific and Professional Development Retreat was held Monday, August 7th, 2017 at the Advanced Technology Research Facility in Frederick, MD. The many activities planned for the day reflected the theme of the event, "Making Decisions." Starting with keynote speaker Dr. Lori Conlan of OITE, participants were encouraged to consider how personal values affect their decision-making. In addition to her thought-provoking talk, Dr. Conlan also led the group in an activity designed to assist in making career choices that better reflect their values. Lunch immediately followed the talk, consisting of salad, sandwiches, and baked treats. After the lunch break, the Graduate Retreat Committee led participants in several team-building activities. For the first task, attendees were placed in groups and worked together to complete scenarios from the "Moral Machine" simulation, an MIT-based initiative described as "a platform for gathering a human perspective on moral decisions made by machine intelligence." Teams were asked to choose from one of two options in which a driver-less car must either crash into a barrier, or continue into a crosswalk where pedestrians are walking against the traffic signal. Groups' choices were then tallied and shared to see how individual team responses matched up to the results as a whole. To close, students were asked to match embarrassing stories to their subject (members of the Graduate Retreat Committee and OITE generously contributed their stories). The team with the most correct matches took home an assortment of candy. Participants returned to Bethesda for a well-attended happy hour immediately following the retreat. Thanks to the Graduate Retreat Committee members Mohsin Khan, Abhishek Sengupta, Christina Porras and Carly Starke for planning the day, and thanks to the ~60 GPP students in attendance for making the event a success!



Student Spotlight



Sarah Davies



Please state your name, GPP program and year in the program. I'm Sarah Davies, a rising third year student in the Georgetown University-NIH Graduate Partnership Program. I research adoptive T cell immunotherapies for the treatment of virally-induced diseases in the Hematology Branch of the National Heart, Lung, and Blood Institute (NHLBI).

How would you describe your graduate school experience so far? The beginning was a little bumpy because of the commute to Georgetown from my home and the stress of finding a lab that aligned with my research interests. Now that I finished my classes and past my comp exam, I love being able to dedicate my time to lab skill mastery and answering interesting research questions. So far, so good!

Anything you would have done differently or have changed since you first started? I don't think there is much I would have done differently, but if I could do it again I would not continue lab rotation that were not a good fit. Usually after two weeks, you know if it's a bad fit. Either find another lab to rotate in or do something else with your time.

Anything you do or go when lab/experiments are stressing you out? In the immediate time frame, I decompress by flipping through Reddit or Pinterest to cheer me up. Talking (or ranting) to a good friend outside of lab about your woes helps so much, even if they don't understand why the heck a broken red laser on the flow cytometry machine could be so infuriating. When I am writing or doing data analysis in front of the computer for a while, I like to go on a short walk to explore the building and the campus. A five minute walk can clear my head enough to boost productivity.

Do you have a favorite spot on campus? Why? Of course, the library and the graduate student lounge are great places to get work done if your lab area is loud or if you need a change of scenery. There are so many hidden gems on campus. If it's a nice day, I like to explore the different gardens and green spaces. The two gardens surrounding the Hatfield building atrium have lovely, fragrant flowers in the spring. And did you know there is a healing garden with a totem pole by the Library of Medicine? All the plants there have been used in both folk and modern medicines. For example, the cancer drug vincristine was isolated from the rosy periwinkle, a lovely ornamental flower. There are also nice spots by the Family Lodge and the cloisters. You never know what you'll find if you never leave your bench.

What OITE resources have you used or events have you attended, if any? OITE is wonderfully supportive of students on campus. I always go to the Phils when I have any major problems. I also use the resources offered by OITE either on their website or at their seminars to both learn how to be a more effective student and to gain a fresh perspective about future careers.



Sarah Davies continued

What did you find was the most difficult thing about transiting into graduate school at the NIH, and what was the easiest/most fun part of it? The most difficult part of transitioning to the NIH was simply finding a lab in which to do research. There are hundreds of labs that do interesting research on campus, but finding people that (1) will email you back (2) have a spot and (3) actually want a PhD student are few and far between. Fortunately, this search gave way to the best part of grad school: doing research that I find fascinating with a group of other passionate and motivated people. I am so lucky to be in a place that has the means to conduct cutting edge research with people that I respect and admire. The collaborative spirit within the NIH has also enhanced my research.

What words of wisdom would you give to new or current students at the NIH? Words of wisdom? Maybe this only applies to me, but I've found these to be constants:

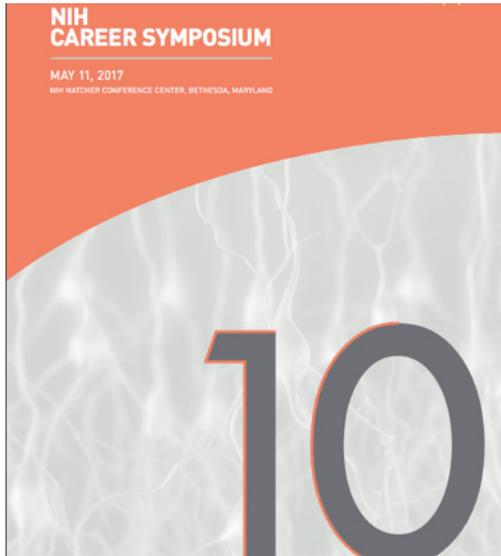
- a. An ounce of prevention is worth a pound of cure, especially when working with precious samples or multi-tasking.
- b. If you can't seem to focus, do not attempt to do science unless you really have to. You will make a mistake. You will feel bad.
- c. Don't forget to maintain your life outside of lab. Go to the gym, talk with friends, and explore hobbies

What hobbies or outside activities do you enjoy? In case you couldn't tell from before, I am a plant geek. I love visiting and planning gardens. I'm super stoked because this month I'll be visiting the Millennium Seed Bank as part of the Royal Botanic Gardens in England. So cool! Besides that, I enjoy rock climbing, painting, and attempting to play the ukulele (I'm not very good, but it's fun).

Any dream of a destination to visit, activity to do, or anything else you have thought of becoming/doing/visiting? My absolute it's-never-going-to-happen dream is to do science in space. I grew up watching hours upon hours of Star Trek (Picard is the best captain, let's be real), and I truly believe that the future of humans will involve more space travel. It would be very cool to learn how and why space travel influences our immune system to improve the health of future astronauts. However, equally interesting, valid, and feasible research questions are here on the ground. I'm lucky enough now to help answer those questions.

If you would like to, please share the desired next phase of your career with us. After graduate school, I aim to enter private industry either in biotech or pharma. Industry appeals to me because it can apply scientific advances to quickly develop and implement solutions to current health problems. It's a little early to know exactly where I fit into that picture, so if you know anyone in industry that could give me some insight, that would be greatly appreciated!

Career Symposium Recap



The 10th annual NIH Career Symposium, hosted by the Office of Intramural Training and Education (OITE) was held May 11, 2017 at the Natcher Conference Center. The decennial of the event kicked off with a panel of speakers, four of whom attended the inaugural Career Symposium held in 2007. With careers ranging from academia to industry to government, the speakers shared their personal stories and how their perspectives had changed as they progressed on their paths. Following the panel were two hour-long break-out sessions on topics from Science Administration to Intellectual Property, and careers in Regulatory Affairs versus Consulting and Business Development. Breaks included the chance to take advantage of the LinkedIn Photo Booth. The “Skill Blitzes” sessions in the afternoon provided tools for acting upon information learned earlier in the Symposium, providing tips on all aspects of the interview process. With an attendance of about 600, the career symposium was a resounding success. For those unable to attend, stay tuned to the OITE website for written synopses and videocasts of the session. Special thanks to the organizers, and a shout out goes to Laura Gorrell, the sole graduate student who volunteered to organize the event!





11 Alternatives to the Postdoc:

Specific Pathways to Enter Industry After Grad School



Steven Griffith, PhD

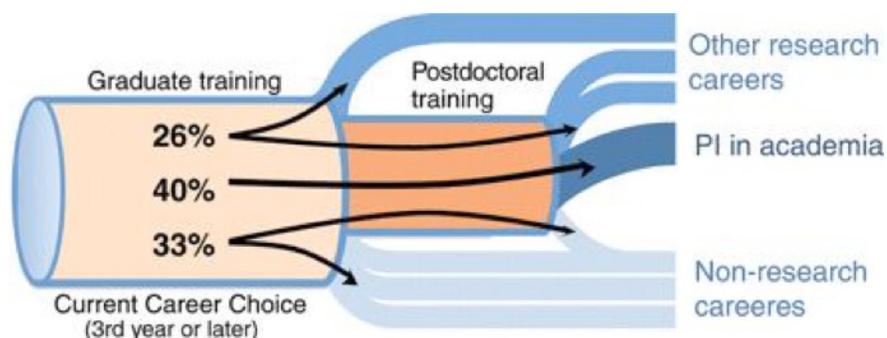
Value Strategy Manager at GSK Vaccines

Howdy folks,

I'm writing this article in the hopes of providing direction, alternatives, and/or options for those of you who are about to finish, or have recently finished, your graduate degree in the Life or Health Sciences. Most of the information contained herein is applicable to MS, PhD, PharmD, or MDs, but this article is written with a natural bias towards PhDs (since that's the path I took).

The purpose of this article is to share with you the programs I'm currently aware of in the hopes that if/when you are approaching the end of your graduate career, one of these may be of interest to you if you're interested in industry and/or want to explore alternative non-bench-research careers. Also, "program" is a dirty word...almost without

exception, these are full time, benefits provided, salary provided, positions very different from graduate school "programs". While many of these programs focus on alternative career paths and training, for the bench scientist reading this post please rest easy that many of these programs do offer a route back to the bench, if that's where your interest may be. So, without further ado, here are 14 specific options/programs available to the scientist interested in exploring alternative career options within Industry.





1) The GSK Future Leaders Program. This program is geared towards recent graduates (early career) who are interested in vaccines (no prior experience required). While GSK offers around 18 different tracks within the FLP program in the US, I'm currently involved in the Vaccines R&D program and will speak specifically to that program.

The Vx R&D FLP program is a 2 year program consisting of an assigned 1 year rotation, followed by two 6-month rotations anywhere within R&D. ANYWHERE. This is a fantastic way to learn about the process of vaccine development and gain experience in any field you might be interested in learning more about, whether it be preclinical research, clinical research, clinical trial organization, epidemiology, regulatory, business development, commercial, strategy, medical affairs, innovation, etc. The biggest problem is that you need to pick the two 6 month rotations, and picking two departments out of the 100+ departments within the vaccine umbrella is an extremely daunting task. In addition, one of your 6-month rotations must be abroad (they want you to have international exposure). The expectation is that upon completion of the program you'll transition into a role where your interests and the business needs intersect. GSK's US Vaccine R&D center is located in Rockville, Maryland, with two other R&D centers located in Brussels, Belgium and Siena, Italy respectively. Requirements: Less than 2 years of post-graduate experience. MS, MD, or PhD by summer of the targeted year of entry. Must not require visa sponsorship. An interest in vaccines/global health. The program is also open in Belgium and Siena for any internationally minded individuals, as the program based in Belgium offers Visa sponsorship.

Other info: Ignore the word "Program". This is a full time job, with salary and benefits more than sufficient for living in or around the DC metro area. The Vx R&D program is new (2016) here in the US, but has been running in Belgium for the past few years. Some of the 17 other FLP tracks include Business Consulting, Commercial Management, Communication and Government Affairs, Biopharmaceutical Manufacturing, Pharma R&D, etc. Some of these other programs only require a BA or BS. Also, please note that many of these programs stop accepting applications once a certain volume is reached rather than by a specific deadline, so applying sooner rather than later is a good idea!

2) GSK Esprit R&D Program. Unlike the other programs, this program appears geared towards individuals who are early to mid-career and are interested in exploring challenging projects in different areas. There are two other Esprit programs, geared towards finance and MBAs, respectively. This is a 3 year program, with 3 rotations in various parts of R&D around the world. It's designed to equip and train mid- and senior-level scientific leadership for a future leadership/management position within GSK. Like the other programs, this program is extremely competitive. In 2017 the application was only open for 2 weeks during the summer. Requirements: Previous work/exposure to senior level individuals at any institution. Previous decision making and/or strategic experience. Ready examples of learning flexibility and adaptability.

Other Info: In my opinion, postdocs, research associates/scientists, and others with more than 2+ years experience should look into this program.

3, 4, and 5) GSK Medical Affairs Fellowship. GSK Regulatory Affairs Fellowship. Pharmaceutical Outcomes Research Fellowship. These programs are each 2 year programs geared towards individuals interested in medical affairs, regulatory affairs, and health outcomes respectively. I've only recently learned about these programs and so can't really provide much more information other than that they exist and provide intensive training in their respective fields. These are based in North Carolina and are cosponsored by UNC-Chapel Hill and Duke. Requirements: PhD, PharmD, or MD. More specific information for each program can be found at the link below.



6) Technology Leadership Development Program. This is a 3 year program consisting of 3 one year rotations in positions of increasing difficulty and technical complexity. Rotations take place at one or more of their sites across the US. Rotations are designed to

enhance the participant's domain expertise, leadership abilities, cross-functional skills and business acumen. Requirements: Ph.D., M.D., or research based thesis M.S. degree, with appropriate technical depth, in life sciences or engineering fields. Experience in or demonstrated interest towards Medical Technologies, Healthcare, or Life Sciences Industries

Merck KGaA

Darmstadt · Germany

7) EMD's Global Graduate Program. This is a 24 month program originally based in Darmstadt, Germany with subsequent relocation to the Boston Area. This program appears to be geared specifically towards training individuals in consulting, with a heavy focus on strategic management and operational projects.

Requirements: English fluency with a second language preferred. International experience. Project Management experience.



8) Visiting Scientist Fellowship. This is a 12 month program which is based in Indianapolis. The program offers direct exposure to medical, marketing, and regulatory aspects of drug development. There appear to be 10 distinct tracks within the program, offering intensive training within a specific area of interest, such as Health Outcomes, Clinical Innovation, etc (see link for full list).

Requirements: MD, PhD, PharmD, or MPH by May of the intended start year. Must not require visa sponsorship. Previous leadership experience preferred.

Other info: This program offers full benefits, salary, and relocation assistance as of 2016. Interestingly, there is precious little information about this program online. The program is not really advertised until application time--around late fall/early winter.



9) Regulatory Affairs Graduate Program. This program is a 2 year development program with rotations at the head office in Denmark and at a global affiliate. This program is designed to provide intensive training within regulatory affairs to train up the next leaders from within the company.

Requirements: MS or PhD within the last year, or within the coming year. Minimum 6 months international experience (work, volunteer, or otherwise). Less than 1 year of work experience. Fluency in English.

Other Info: Includes salary and benefits.

10) Global Development Graduate Program. This is a 2 year program providing rotations within a broad array of clinical activities. One rotation is at the home office in Denmark and other (s) at a global affiliate. The program has been designed so that, following successful completion, you will be equipped with the necessary skills and experience to become an integral part of the company – typically with a permanent position in Denmark or elsewhere in our global organization.

Requirements: MS or PhD within the last year, or within the coming year. Minimum 6 months international experience (work, volunteer, or otherwise). Less than 2 years of work experience. Fluency in English.

Other Info: Includes salary and benefits. In 2016, 12 graduates were accepted in six different areas – biostatistics, statistical programming, data management, epidemiology, medical writing and trial management.

11) CMC Development Graduate Program. Stands for Chemistry, Manufacturing, and Control Development Program. This is a 2 year program offering rotations with the goal of learning how molecules invented/discovered by the Novo Nordisk team are turned into drug candidates. One rotation takes place in Denmark, and the others at a global affiliate.

Requirements: A recent Master's degree. A minimum 6 months international experience. Relevant work or extracurricular experience (no limit specified). Fluency in English.

These are the programs I'm aware of. I've excluded traditional postdoc programs from this list however I will point out that for those of you who love bench research and physically doing science, nearly every major (and minor) scientific company out there has a postdoc program, including those companies listed above.

Finally, here are a few other positions and/or alternative options to postdocs that I'm aware of, independent of industry and Big Pharma.



12) AAAS Science and Technology Policy Fellowships. This program provides scientists and engineers the opportunity to serve year long fellowships and to learn firsthand about policy making. There are approximately 300 Fellows placed each year, making this the largest by volume program listed in this article. Fellows are placed in and around DC in various offices based on interest and need.

Requirements: PhD or other terminal degree in social or behavioral sciences; medical or health sciences; biological, physical or earth sciences; or computational sciences or mathematic or a Master's in an engineering discipline with 3 years work experience.

Other Info: Salary range is \$75,000-\$100,000 plus company sponsored health care.



13) Public Health Fellowships. The CDC offers multiple Public Health Fellowships, each with their own specific criteria, functions, and varying lengths. The full list can be found at the link below.

Requirements: Varied.



14) Technology Transfer Fellowship. This 1 year fellowship (possible renewal for a total of 3 years) is offered to provide experience in the field of technology transfer. The fellows have the opportunity to work with a variety of technologies and in a variety of offices across the NIH as the need arises.

Requirements: PhD, MD, JD, and/or MBA.

Other Info: Stipend of \$48,000-\$55,000 based on experience and qualifications, with health insurance provided.

Congratulations on making it to the bottom of this article! If you're an upcoming or recent graduate, hopefully this article has been helpful in providing you a few options you may not have been aware of. While ALL of these programs are highly competitive, I'd strongly encourage you to apply! The one thing you know for sure is if you don't apply, you won't get the job.

If you've found this article helpful, please share with your local network! While there has been a large shift over the past few years to providing more education about "alternative" career options, specific programs and entryways into industry aside from the postdoc route are still not well known! These are especially important when considering the recent proposed ~20% budget cut to the NIH which would have a severe impact on available funding, availability of future jobs, postdoc opportunities, etc. I'd also encourage you to comment and add any other career development programs you may be aware of so that others can benefit from that knowledge. Thanks for reading!

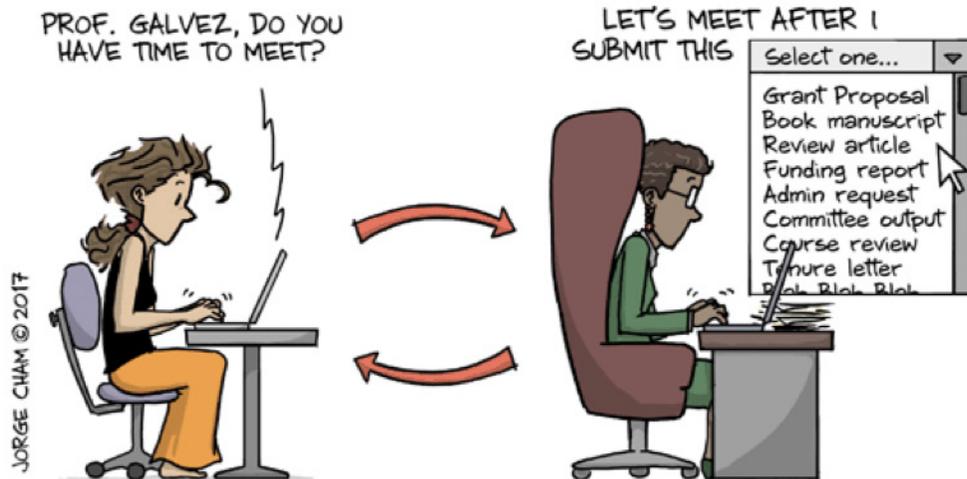
PS

Special thanks to O.F for providing the info on Merck KGaA, M.H for providing the info on Eli Lilly, and C.J for the AAAS information. Second picture (career pipeline) from C.N. Fuhrmann et al., CBE Life Sciences Education, 2011. Finally, please note the views and opinions expressed in the article are my views only and do not represent those of GSK.

Comics

Piled Higher and Deeper by Jorge Cham

“Let’s Meet After” originally published 06/02/2017

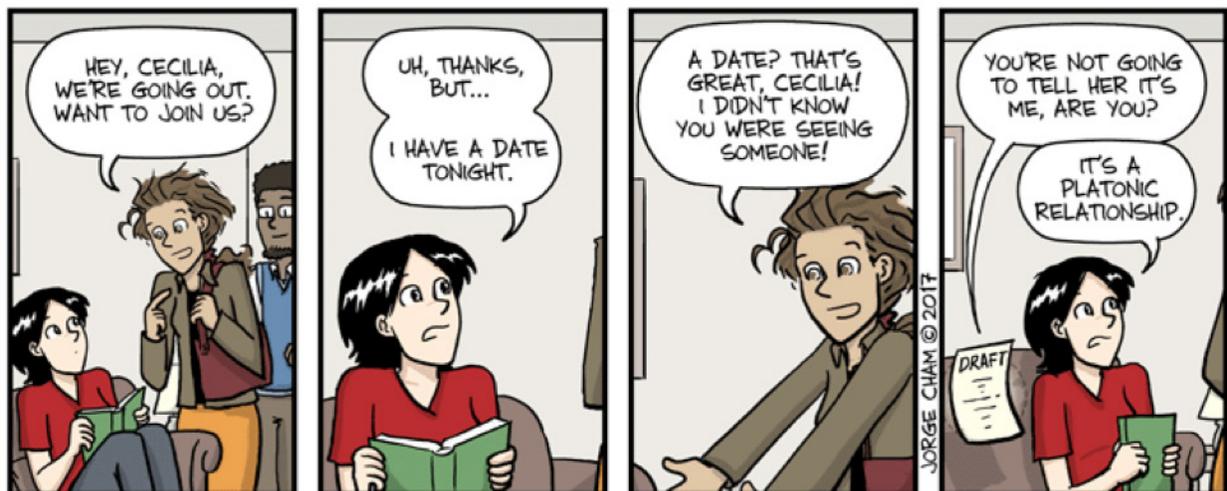


WHY YOU NEVER MEET.

WWW.PHDCOMICS.COM

Piled Higher and Deeper by Jorge Cham

“The Date” originally published 06/09/2017



WWW.PHDCOMICS.COM

The GS Chronicles Team

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Phil Wang

Want to contribute?

We are looking for content for the next Chronicles issue!

Artwork: Have a doodle, a comic, or a drawing that you want to share? Showcase your skills to your fellow classmates. When you become famous, the GPP will look really good for publishing your early work.

Creative writing: Write poetry, short stories, or essays and looking for somewhere to disseminate your work? You won't find sci-fi and literature aficionados like us anywhere else!

Student Spotlight: Introduce yourself to your fellow grad students by doing a Q&A with us to highlight yourself and your thesis work and/or scientific interests. You may just land an awesome collaboration!

Please send your publications, awards, graduation, and birthday announcements to GSChronicles@od.nih.gov for recognition.

We would love to hear from you!