

A Kaleidoscope of Biomedical Science Careers

2024 ASPIRE Annual Career Symposium Friday, May 31, 2024

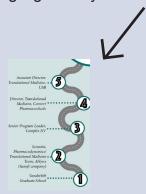
Sponsored by the BRET Office of Career Development & the Training Grants in the Biomedical and Biological Sciences

Welcome to the 2024 ASPIRE Annual Career Symposium!

Join the conversation on Twitter #ASPIRECareerSymposium

How to read this program:

Each speaker is featured on a page with their bio and career highlights they submitted,...





... three adjectives they would use to describe themselves to be successful at their role,... ... and their daily job activities (what they do all day).



	Addressing Emails	10%
	Preparing and Giving Presentations	5%
	Writing	5%
Managing others		
	Training others on the job	10%
	Individual meetings	10%
	Team meetings	10%
	Inter-organizational meetings	5%
	Client meetings	10%
	Committee meetings	5%
	Hiring and/or interviewing	1%
	Coaching or mentoring others	4%
Science Evaluation Business		5%
	Business Development	5%
	Strategic Planning	5%
	Program Management	5%
Networking		5%

Want to participate in the Q&A?

Ask questions on SLIDO.com #ASPIRE2024

Select your location. Ask your question!







The BRET Office of Career Development ASPIRE Program provides many programs and resources for the biomedical PhD student and postdoc population. Here are the Top 10 Resources just for you!



PhD Career Stories

PhD Career Stories is a monthly seminar series about career options for PhD scientists. Speakers from a diverse range of exciting scientific careers present their career path and share insights from their professional experiences.



Beyond the Lab Podcast Series

This ASPIRE podcast series features BRET PhD student and postdoctoral alumni to hear about their current roles, what they do all day, and what advice they have for current trainees. Listen on iTunes or wherever you listen to your podcasts (search for "Vanderbilt Beyond the Lab"). Season 8 drops Fall 2024.

https://medschool.vanderbilt.edu/career-development/beyond-the-lab-see-listen/



ASPIRE Modules ASPIRE Modules are short, non-credit bearing electives that broaden the training experiences of biomedical sciences trainees. These elective modules provide efficient exposure to topics in five theme areas: Project Management, Clinical Research, and Life Design.



Badgr

Using the Badgr platform, the ASPIRE Program is microcredentialing by awarding badges to trainees who fully complete ASPIRE modules. https://medschool.vanderbilt.edu/career-development/aspire-micro-credentialing-through-badgr/



ASPIRE on Twitter/X

There are two Twitter/X feeds from the BRET Office of Career Development: @VUBRETASPIRE tweets resources, seminar notices, event photos, and more. @VUBRETPhDJobs tweets current job postings for grad students and postdocs.



Career Advising

Individualized The BRET Office of Career Development provides individual career advising for biomedical sciences PhD students and postdoctoral fellows. Complete the advising form on the ASPIRE website to meet and discuss any professional development topic including document review, career guidance, and job search strategies.



ASPIRE Internships The ASPIRE program facilitates opportunities for post-qualifying exam graduate students and postdoctoral fellows to conduct internships and gain hands-on experience with a project in a professional work environment. https://medschool.vanderbilt.edu/career-development/overview-of-aspire-internships/



ASPIRE on the Road

ASPIRE on the Road is an initiative aimed at broadening the trainee experience to learn about different career options through workplace tours and meeting professionals in a range of roles. Stay tuned for city and date announcements. https://medschool.vanderbilt.edu/career-development/aspire-on-the-road/



Blog

The blog is updated daily with upcoming events, articles of interest, job postings, student organization activities, professional development opportunities, and career resources.

https://medschool.vanderbilt.edu/career-development/blog/



Newsletter

The ASPIRE Newsletter is published every other Monday. It highlights upcoming events, funding opportunities, volunteer options, and job openings.

Sponsored by the Office of Biomedical Research Education ASPIRE Program & Training Grants in the Biological and Biomedical Sciences

Biochemical and Chemical Training for Cancer Research Cellular, Biochemical and Molecular Sciences Training Program Chemical Biology of Infectious Diseases (CBID) Chemistry-Biology Interface

Genetic Variation and Human Phenotypes Training Program Initiative for Maximizing Student Development (IMSD) Immunological Mechanisms of Disease Training Program Interdisciplinary Training in Rheumatic Diseases Microenvironmental Influences in Cancer Molecular Biophysics Training Grant at Vanderbilt Multidisciplinary Training in Molecular Endocrinology Postdoctoral Program in Functional Neurogenomics

Program in Developmental Biology

Project REACH: Research Expertise and Training in Children with Hearing Loss

Training in Fundamental Neuroscience

Training in Pharmacological Sciences

Translational Interdisciplinary Research Training in Communication Sciences and Disorders

Training Program in Environmental Toxicology

Vanderbilt Biomedical Informatics Training Program



An engineer from the Louvain School of Engineering and PhD in applied physics from Stanford University, Jeanluc Doumont now devotes his time and energy to training engineers, scientists, business people, and other rational minds in effective communication, pedagogy, statistical thinking, and related themes. With his rational background, he approaches communication in an original, engineering-like way that contrasts sharply with the tradition of the field, rooted in the humanities. He is thus well received by students and professionals in search of a method they can apply with the same rigor they have come to value in every other aspect of their occupations. Over more than 30 years, he has addressed grad students, postdocs, and faculty at some 200 universities in over 30 countries in English, French, Dutch, and

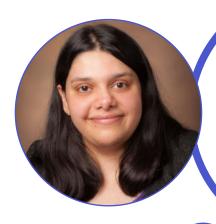
Dr. Doumont's Session Descriptions:

Opening Keynote: Critical Thinking for a Successful Career (and a successful life)

Although they can be models of rigor in their area of expertise, researchers often appear to abandon all logic in other aspects of their lives. As a result, they draw wrong conclusions and take suboptimal decisions that work against the interest of all involved. By unmasking typical incorrect reasonings at home and at work, this lecture will sharpen your critical thinking in every aspect of your life.

Networking for Researchers Workshop (afternoon sessions)

A success factor for any career, networking can be daunting for shyer people, who then envy the "people-oriented" ones. In fact, both the introverted and the extraverted can benefit from a more systematic approach to professional networking. After clarifying what a network really is, this workshop reviews approaches to effective networking, both face to face and online, each time offering concrete, readily applicable tips.



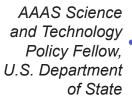
Amrita Banerjee, PhD

Policy Advisor, U.S. Department of State **Diplomatic**

Likable

Strategic

Policy Advisor, U.S. Department of State



National Chair, National Science Policy Network

> AAAS Congressional Fellow, U.S. Congress

> > Vanderbilt University Postdoctoral Fellowship

Policy Intern, Life Science • Tennessee

PhD with Vanderbilt School • of Medicine



Dr. Banerjee previously served as an American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellow at the State Department. She was also an AAAS Congressional Fellow and legislative aide to U.S. Congressman Derek Kilmer (WA-06) in the U.S. House of Representatives. Dr. Banerjee received her doctoral degree in Cell and Developmental Biology from Vanderbilt University and her bachelor's degree in Biology from Duke University. She speaks Bengali and Spanish.



Communication			
Addressing Emails	25%		
Preparing and Giving Presentations	5%		
Responding to Phone Calls	5%		
Writing	5%		
Managing others			
Individual meetings	10%		
Team meetings	5%		
Inter-organizational meetings	5%		
Hiring and/or interviewing	5%		
Coaching or mentoring others	5%		
Business			
Strategic Planning	5%		
Travel	5%		
Professional development	5%		
Networking	5%		
International relations (multilateral and foreign affairs)10%			



Kristin Burnum-Johnson, PhD

Science Group Leader for Functional and Systems Biology, Pacific Northwest National Laboratory Leader

Team Player

Strategic



Kristin Burnum-Johnson is a Science Group Leader for Functional and Systems Biology at Pacific Northwest National Laboratory. Burnum-Johnson earned her PhD in Biochemistry from Vanderbilt University with Professor Richard M. Caprioli and then completed a postdoctoral fellowship at PNNL with Dr. Richard D. Smith.

Critical challenges in systems biology, ranging from environmental sustainability to human health, may be addressed through the comprehensive and informative view of underlying biological pathways provided by the integration of spatiotemporal multi-omic measurements (i.e., proteomics, metabolomics, and lipidomics). Her research is dedicated to achieving transformative molecular-level insights into environmental and biomedical systems by implementing advanced mass spectrometry (MS) instrumentation. Burnum-Johnson has more than 20 years of experience and more than 80 publications

Workplace Week at a Glance				
Communication				
Addressing Emails	2%			
Preparing and Giving Presentations	10%			
Writing	2%			
Managing others				
Individual meetings	10%			
Team meetings	10%			
Inter-organizational meetings	1%			
Client meetings	1%			
Hiring and/or interviewing	1%			
Coaching or mentoring others	17%			
Science				
Analysis	2%			
Discovery	13%			
Evaluation	1%			
Business				
Business Development	2%			
Competitive Intelligence	2%			
Strategic Planning	14%			
Program Management	2%			
Financial operations (writing grants, etc)				
Travel	1%			
Reading literature, staying current	1%			
Professional development	1%			
Networking	2%			

dedicated to the development and evaluation of in situ imaging MS, structural characterization of molecules using ion mobility-MS, and analyses of molecules in complex matrices using high-resolution MS. Her research program is funded by the U.S. Department of Energy (DOE) Biological and Environmental Research (BER) program, the DOE Bioenergy Technologies Office (BETO), and the National Institutes of Health (NIH).



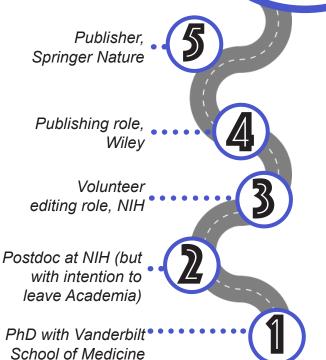
Tony Chen, PhD

Publisher, Research Publishing, Springer Nature

Adaptable

Curious

Team Player



Tony Chen, PhD is a Publisher in the NPJ portfolio at Springer Nature, managing a portfolio of Life and Health Science journals. Previously, he worked as an Associate Publisher at Wiley for nearly 6 years, managing a portfolio of Health Science and Life Science journals (2018-2024). He earned his PhD in Cell and Developmental Biology from Vanderbilt University in 2015 and did postdoctoral work at the NIH studying the molecular mechanisms of Head and Neck cancer.

Communication	
Addressing Emails	20%
Preparing and Giving Presentations	10%
Writing	5%
Managing others	
Individual meetings	10%
Team meetings	10%
Client meetings	10%
Science	
Evaluation	5%
Business	
Business Development	5%
Strategic Planning	10%
Program Management	5%
Professional development	5%
Networking	5%

KEYNOTE

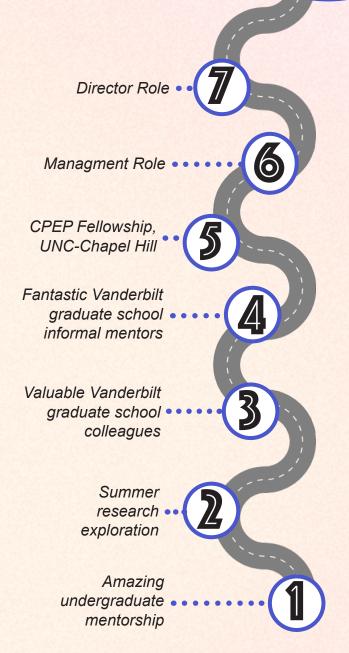


Karissa Culbreath, PhD

Section Chief, Medical Director, Infectious Disease, TriCore Strategic

Thoughtful

Humble



Dr. Karissa Culbreath is Medical Director and Division Chief of Infectious Diseases at Tricore. Dr. Culbreath received a Ph.D in Microbiology and Immunology from Vanderbilt University in Nashville, TN and completed a fellowship in Medical and Public Health Microbiology at the University of North Carolina at Chapel Hill through the American Society of Microbiology. She is board certified by the American Board of Medical Microbiologists. She currently serves as the Chair of the American Board of Medical Microbiologists. Her research interests include implementation laboratory automation in the clinical laboratory and advancing health equity through laboratory diagnostics in resource-limited communities.

Workplace Week at a Glance Communication 20% Addressing Emails Preparing and Giving Presentations 10% **Managing Others** Training Others on the Job 5% **Individual Meetings** 5% **Team Meetings** 5% Inter-organizational Meetings 5% Coaching or Mentoring Others 5% Science **Analysis** 20% Evaluation 10% **Business** Strategic Planning 15%

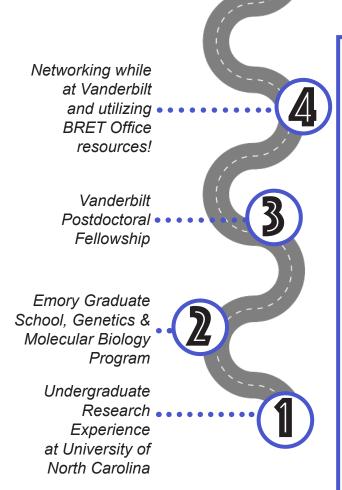


Keely Gilroy, PhD

Senior Medical Director, Global Medical Affairs, Agios Pharmaceuticals, LLC **Articulate**

Strategic

Independent



Workplace Week at a Glance

Communication	
Addressing Emails	10%
Preparing and Giving Presentations	5%
Responding to Phone Calls	2%
Writing	2%
Managing Others	
Individual Meetings	3%
Team Meetings	5%
Inter-Organizational Meetings	5%
Client Meetings	20%
Committee Meetings	2%
Science	
Analysis	2%
Evaluation	2%
Business	
Competitive Intelligence	5%
Strategic Planning	5%
Travel	15%
Reading Literature, Staying Current	10%
Professional Development	2%
Networking	5%

Keely Gilroy is a Senior Medical Director at Agios Pharmaceuticals, a biotechnology company committed to advancing healthcare for patients living with rare diseases. At Agios, she leads the medical strategy for an investigational development program in thalassemia; her responsibilities include overseeing medical education activities, investigator-sponsored research, and data communications, as well as serving as a scientific subject matter expert for internal and external colleagues. Keely joined Agios in 2017 as a Medical Science Liaison and then transitioned to a role leading Publications and Scientific Communications before moving into her current

position. Prior to joining Agios, she was a Medical Science Liaison with Takeda Pharmaceuticals where she supported several different disease areas including diabetes, hypertension, hyperlipidemia, and inflammatory bowel disease. Keely earned a B.S in Biology at the University of North Carolina at Chapel Hill and a PhD from Emory University in Genetics and Molecular Biology, followed by a postdoctoral fellowship at Vanderbilt in the Department of Cell and Developmental Biology. She lives in Charleston, SC, and in her free time, enjoys the coastal life with her husband, Pat, and their two sons, JP (10) and Connor (8).



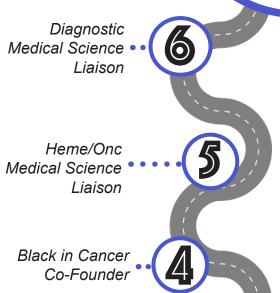
Henry Henderson, PhD

Medical Science Liaison, Foundation Medicine

Adaptable

Persistent

Enthusiastic



Dr. Henry J. Henderson III is a trained cancer biologist and cancer health disparities advocate. He received his B.S. from Southern University and A&M College and his Ph.D. in Integrative Biosciences from Tuskegee University. Following his graduate studies, he completed his postdoctoral training at Vanderbilt University Medical Center where he also served as an FDA-AACR Oncology Educational Fellow.

Currently, Dr. Henderson is an Oncology Medical Science Liaison. From lobbying on Capitol Hill for cancer research funding to serving as an expert panelist and keynote speaker for several prominent patient advocacy organizations, Dr. Henderson has contributed ardently to his field. He has also serves as a frequent panelist for the FDA Oncology Center of Excellence's Black Family Cancer Awareness Week. Most notably, Dr. Henderson is the co-founder of Black in Cancer, an organization aimed to increase cancer awareness and Black representation in cancer related fields.

FDA-AACR Oncology Educational Fellowship Vanderbilt Postdoctoral Fellowship Tuskegee Graduate School

Communication Addressing Emails Preparing and Giving Presentations Responding to Phone Calls Writing	15% 10% 5% 5%
Science	
Evaluation	5%
Business	
Strategic Planning	10%
Travel	20%
Reading Literature, Staying Current	10%
Professional Development	10%
Networking	10%



Eric N. Johnson, PhD

Executive Director,
Discovery Science, Initial
Therapeutics

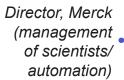
Leader

Skillful

Thoughtful

Executive Director, Exelixis (management of scientists and programs)

Director,
WuXi AppTec
(management and client
interactions)



Scientist, Merck (intro to automation)

Scientist, GSK (intro to industry)

Postdoc, NIH

Postdoc, Univ of Calif San Diego

PhD with Vanderbilt School of Medicine



Dr Eric Johnson completed his BS degree in Biology at Dickinson College, and his PhD degree in Pharmacology at Vanderbilt University Medical Center. His diverse training includes post-doctoral studies at the Univ. of California San Diego and the National Institutes of Health where he focused on cell signaling in cardiac myocytes and the immune system, respectively. During his more than two decades of experience in the pharmaceutical industry, Eric worked with a variety of corporations, including large pharmaceutical companies such as Wyeth, GlaxoSmithKline, and Merck & Co. Through his on-the-job training in automation and its implementation in the hit finding process, Eric was able to advance his career and assume leadership roles for several highly efficient teams. His responsibilities included assay development for drug repurposing and genome-wide siRNA screening. After his tenure in big pharma, Eric helped to build successful screening groups at WuXi AppTec, a contract research organization (CRO) as well as Exelixis, a mid-size biotech company. These teams were responsible for high-throughput screening, alternative hit finding campaigns, automated weekly structure-activity-relationship (SAR) assays and determining mechanism of action. Eric recently entered the world of startups as the Executive Director of Discovery Science at Initial Therapeutics, a biotech company, where he leads assay development scientists to identify compounds that inhibit protein synthesis in the ribosome's exit tunnel with the intention of developing novel cancer-fighting therapies.

Workplace Week at a Glance				
Communication				
Addressing Emails	5%			
Preparing and Giving Presentations	5%			
Managing others				
Training others on the job	5%			
Individual meetings	10%			
Team meetings	10%			
Inter-organizational meetings	5%			
Committee meetings	5%			
Hiring and/or interviewing	5%			
Coaching or mentoring others	20%			
Science				
Analysis	5%			
Discovery	5%			
Evaluation	10%			
Business				
Strategic Planning	5%			
Consultation from others	5%			



Jessica Overstreet, PhD

Senior Advisor, Lilly Diabetes and Obesity and Talent Development Academy, Eli Lilly and Company

Multi-talented

Strategic

4%

7%

Team Player

Eli Lilly-Lilly Diabetes and • Obesity (Ph3 Development-CV)

Eli Lilly-Lilly Genetic Medicine (Modality Expert)

Eli Lilly-Talent Development Academy (High Potential Employee Professional Development)

Eli Lilly-Diabetes Obesity Complication Therapeutic Area (Disease Expert)

Lilly Innovation Fellowship Award Recipient (Gateway to Industry)

Vanderbilt-Bayer Partnership & BRET Office Programs

Vanderbilt University Postdoc-Nephrology

> Albany Medical College, PhD Cell Biology and Cancer Research















Workplace Week at a Glance

Communication

Networking

Jessica M Overstreet, PhD is a Senior Advisor in the Lilly Diabetes and Obesity-Cardiovascular Phase 3 Clinical Development team at Eli Lilly and Company. She is currently in the Talent Development Academy Experienced Employee Rotational Program, a two-year program that enhances the employee's development through contribution to different business areas across the organization. Her previous roles were as a discovery scientist in Lilly Genetic Medicine and the Diabetes, Obesity, Complications therapeutic area as an expert on novel therapeutic modalities and disease biology. Jessica supports enterprise-level Diversity, Equity, and Inclusion initiatives, mainly focusing on employees identifying as Black, Latinx, women and early career professionals.

Jessica received her B.S. in Biotechnology at Ferris State University, Ph.D. from Albany Medical College and completed her postdoctoral studies in nephrology with Ray Harris at Vanderbilt University. Her research at Vanderbilt was funded by the Lilly Innovation Fellowship Award (LIFA) and the Vanderbilt-Bayer partnership. She serves as an advisor to the ASPIRE Path in Molecular Medicine, acts as an Indianapolis Public School ambassador, and is the board chair of a nonprofit organization, El Sistema Indianapolis.



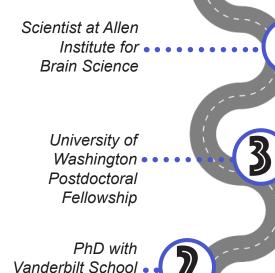
Meagan Quinlan, PhD

Scientist/Therapeutic Lead, Gene Therapy, Allen Institute for Brain Science

Encouraging

Persistent

Team Player



of Medicine

Research Experience

Undergraduate

Meagan Quinlan joined the Allen Institute as a Therapeutic Lead on the AAV Gene Therapy Team in the Human Cell Types Group in 2022. As part of the gene therapy program, Meagan designs and tests new therapeutic AAVs to treat brain diseases such as epilepsy. Before joining the Allen Institute, Meagan studied the impact of disease-associated gene variants at the molecular, neural circuit, and behavioral levels. As a postdoctoral fellow at the University of Washington, she studied potassium channel variants identified in neurodevelopmental disorders and worked on developing a novel cell-type specific CRISPR/Cas9 gene editing technology. She got her PhD in Pharmacology at Vanderbilt University studying the structural and functional dynamics of serotonin transporter gene variants identified in autism spectrum disorder. Meagan received her Bachelor of Science degree in Psychology with a minor in Pharmacology and Mathematics from the University of Vermont.

Communication	
Addressing Emails	5%
Preparing and Giving Presentations	30%
Managing others	
Individual meetings	20%
Team meetings	20%
Science	
At the "bench" doing actual research	10%
Analysis	10%
Reading literature, staying current	5%

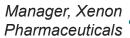


Emily Turner, PhD

Manager, Medical Writing, Clinical Development, Xenon Pharmaceuticals, Inc. **Decisive**

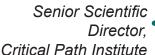
Procedural

Team player





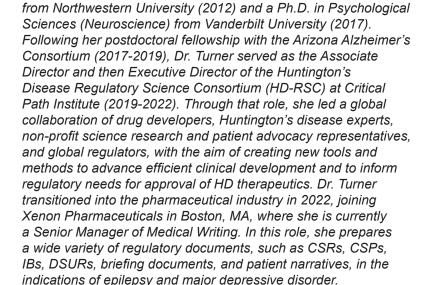
Executive Director, Critical Path Institute





Postdoc, Arizona Alzheimer's Consortium (Arizona State University)

PhD with Vanderbilt School of Medicine



Dr. Emily Turner earned a B.A. in Psychology and Art History



Communication	
Addressing Emails	5%
Preparing and Giving Presentations	15%
Writing	40%
Managing others	
Team meetings	5%
Inter-organizational meetings	10%
Science	
Evaluation	20%
Business	
Strategic Planning	5%

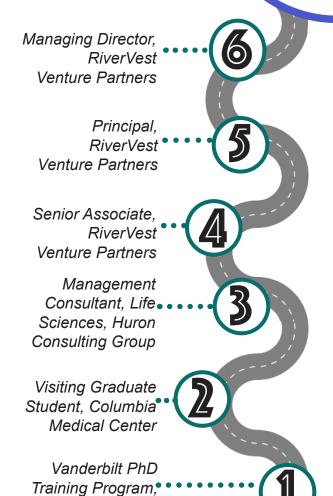


Isaac Zike, PhD

Managing Director, RiverVest Venture Partners **Detailed**

Strategic

Multi-Talented



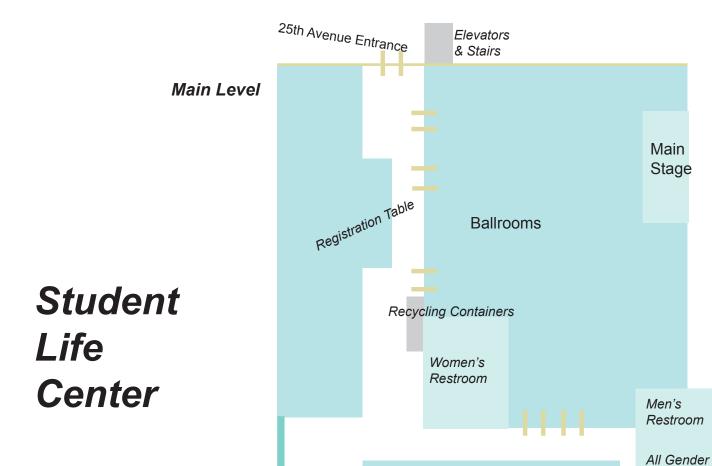
Pharmacology

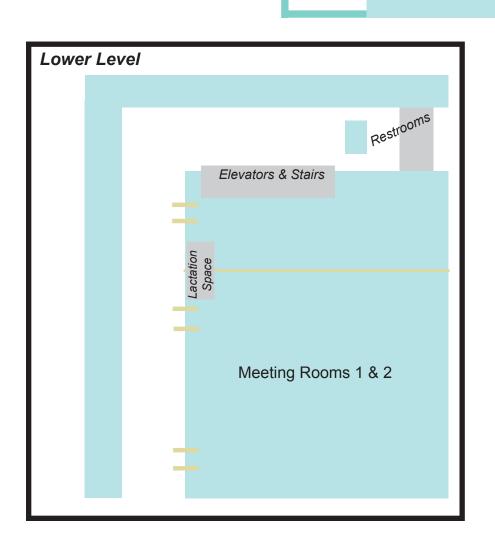
Workplace Week at a Glance			
Communication			
Addressing Emails	10%		
Preparing and Giving Presentations	5%		
Writing	5%		
Managing others			
Team Meetings	5%		
Inter-organizational Meetings	15%		
Committee Meetings	5%		
Science			
Analysis	5%		
Evaluation	5%		
Business			
Business Development	5%		
Competitive Intelligence	5%		
Strategic Planning	15%		
Forecasting, Reporting	5%		
Operations and Logistics	5%		
Travel	5%		
Professional Development	5%		

Isaac Zike, PhD is a Managing Director at RiverVest Venture Partners and has been with the fund since joining in 2019 as a Senior Associate. Isaac serves as a director on the boards of RiverVest portfolio companies SeQure Dx and a stealth biopharma company as well as a board observer for Glycomine, Sparrow Pharmaceuticals, and Wugen. He earned a B.S. from the University of Minnesota Twin Cities, double majoring in Biochemistry and in Genetics, Cell Biology, and Development. Following his undergraduate studies, he completed a PhD in Pharmacology at Vanderbilt University, where he worked

in the lab of Dr. Veenstra-VanderWeele, focusing his thesis work on the evaluation and validation of novel animal models for psychiatric disease.

Prior to joining RiverVest, Isaac worked as an associate within the Life Sciences practice at the Huron Consulting Group in New York City, where he assisted pharmaceutical and biotech clients on strategic projects ranging from early optimization of R&D processes to commercialization strategies for marketed products.





If you have any questions about the schedule throughout the day, please return to the registration table outside the SLC Ballrooms.

Restroom

Board of Trust Room

Podium

A Lactation Room is available on the bottom floor of the SLC, next to Classroom 3. Ask the SLC front desk for details.

Schedule

TIME	BALLROOMS	Board of Trust Room	TIME	Downstairs 1&2
9:00am	Welcome Remarks Walter Chazin Senior Associate Dean for Biomedical Research Education and Training			
9:15- 10:15am	Critical Thinking for (and a Succ Jean-Luc	essful Life)		
10:25- 11:20am	Medical Science Liaison Panel Henry Henderson Keeley Gilroy	Government and Non-Profit Research Kristin Burnum-Johnson Meagan Quinlan	10:45- 11:15am	FIRESIDE CHAT: Jessica Overstreet
11:30am- noon	Government, Policy, Advocacy Amrita Banerjee	Biotech Ventures Isaac Zike	11:30- 12:00pm	FIRESIDE CHAT: Henry Henderson
12:30- 1:15pm	LUNCHTIME KEYNOTE: Clinical Lab Medicine Karissa Culbreath			
	Transca Galler Galler			
1:25- 2:25pm	Jessica Overstreet Eric Johnson	Networking for Researchers Workshop Jean-Luc Doumont	1:20- 1:50pm	FIRESIDE CHAT: Keeley Gilroy
2:35-	Writing and Publishing	Networking for Researchers	2:00- 2:30pm	FIRESIDE CHAT: Karissa Culbreath
3:30pm	Tony Chen Emily Turner	Workshop Jean-Luc Doumont	2:40- 3:10pm	FIRESIDE CHAT: Karissa Culbreath
3:30pm	Networking Outside on the	· · · · · · · · · · · · · · · · · · ·		