This Week's Newsletter

Quick Links
- Student Handbook
- Graduate School Handbook
- Student Forms
- Important Deadlines
- Current Lab Rotation Openings

Office Hours
Office hours:
8:00 - 5:00pm
Monday-Friday
You may stop by 1178 Graves Hall anytime to ask questions of Administrative Program Director, Amy Lahmers.

E-Newsletter Submissions
To submit a news item to be considered for inclusion in the newsletter, contact bsgp@osumc.edu
For the Week of July 29th, 2018

College of Medicine
Biomedical Sciences Graduate Program E-Newsletter
1178 Graves Hall * 333 West 10th Ave * Columbus OH 43210
bsgp@osumc.edu
www.medicine.osu.edu/bsgp

*New or Updated Items Marked With Asterisk

Graduate School News

*Print copies of Science needed*
Seeking print copies of the July 6 2018 issue of Science ("Hidden Conflicts" is on the cover). If you have a copy, please contact Lawrence Kirschner- thank you

*BSGP Stipend Increase Effective August 17
Attention all BSGP students - The College of Medicine's standard minimum stipend amount for BSGP students will be $29,300 ($2441.66/month) effective August 17, 2018. This represents a 2% increase over the current stipend amount. Please contact Amy Lahmers with any questions.

*New Graduate Student Reception
Tuesday August 28th, 2018
James L045
5-6:30pm
All new graduate students are invited to meet the faculty and trainees in the Department of Physiology and Cell Biology and explore the research opportunities available to new graduate students
Refreshments will be served | Door prizes for grad students attending
Please RSVP to Jenifer.Bennett@osumc.edu
For more information please contact: Noah Weisleder, Ph.D

*Graduate and Professional Student Involvement/Resource Fair
August 19th, 2018 | 4-7pm | Ohio Union

The Second Annual Humanism in Medicine Lecture Series

August 30, 2018
4:00pm: Reception, 4:30pm: Last Lecture
Richard M. Ross Heart Hospital Auditorium
452 West 10th Avenue Columbus, OH 43210

We welcome Dr. Charles Hitchcock, the beloved medical educator and mentor as our speaker for the second Last Lecture speaker. Please join us as he shares his wonderful stories, his pathology-based sense of humor and his love of teaching.

RSVP here

Medicine and the Arts: Poetry and Pizza Event

Join us as we welcome two members of our nationally recognized Hospital Poets leadership team in a special poetry session that will feature poems you love, poems you will discover and poetry that touches your heart. Our
poets will engage us in conversation and share their insights into the magic that is poetry. This noon hour Pizza and Poetry event will bring that much needed respite in your very busy lives.

Find more information online here!

Data Science for Scientists Club Now Recruiting Members

Open to any individual (students, postdocs or faculty) interested in developing skills necessary to analyze any type of data

Develop programming skills in Python, R and associated libraries

Share tips and tricks for data analysis and visualization.

Email freitas.5@osu.edu for more information

Meets every Tuesday 11:30am-1pm in BRT 105
Free access to DataCamp online learning and OSC HPC for RStudio & Jupyter notebooks

TL1 and KL2 Programs Now Accepting Applications

The overall goal of the CCTS Training and Career Development is to establish and cultivate an institution-wide learning environment that is inherently linked to all aspects of the CCTS.

One way that the CCTS accomplishes this goal is through our TL1 and KL2 career mentoring programs. Each program supports clinical trainees in various levels of their career by providing financial stipends, access to the CCTS professional services and staff, tuition support, and more.

The TL1 Mentored Clinical Research Training award provides full-time research and training support for predoctoral and postdoctoral fellows seeking additional training in clinical and translational research. Trainees with a clinical degree who are enrolled in a Master's or Doctoral program are also eligible for the TL1 award.

The CCTS is currently accepting applications for both the TL1 and KL2 programs. You can learn more about the programs and apply here.

List of Faculty Taking Students for Summer Rotations

Here is the updated list of faculty taking students for SU18 rotations.

Course Offerings

*Translational NeuroImmunology Seminar/HTHRHSC 7595

1 credit hour (can repeat up to 4 credit hours)
Thursdays 11 am-12 pm | IBMR 109
Instructor: Mireia Guerau (gueraulaboratory.com)

Course description: This seminar course is designed for graduate level students involved in basic or translational research in Immunology and/or Neuroscience. Students develop skills in teaching, analyzing, discussing, synthesizing and presenting immunology and neuroscience research. Students develop a classic and a contemporary (3-minute thesis) research presentation and critically appraise peer research, including a few national level speaker presentations. Successful students are able to: 1. Understand complex Immunology or Neuroscience concepts for interpretation of Translational NeuroImmunoLogy research. 2. Demonstrate understanding of Immunological or Neuroscience concepts. 3. Apply research concepts or ideas to their field/research question. 4. Analyze and break down the objectives and essential elements for successful delivery of various research presentation formats, such as
Specific Topics Autumn 2018: Plans for this semester are focused on the impact of immune (such as T cells or myeloid cells) and neurological (such as microglia or astrocytes) and environmental (such as microbiota or stress) systems on disease. Disease models may include animal models of Multiple Sclerosis, cancer and behavior.

Grading: Satisfactory/Unsatisfactory based on attendance, developing a full and a 3-minute thesis research presentation and peer-review of presentations.

Advanced Skeletal Biology: Clinical Perspectives

HthRhSc 8891: Autumn 2018
Mondays 1-4pm
3 credit hours

The course will examine research-based multidisciplinary concepts with an emphasis on application to students’ clinical areas of interest. Graduate students from all disciplines are welcome, including (but not limited to): Health & Rehabilitation Sciences, Biomedical Engineering, and Anthropology

For more information contact course instructors:
Randee Hunter, PhD  Amanda Agnew, PhD

NEURSGY 8250 Course Offering

Biology of the Tumor Microenvironment (NEURSGY 8250) graduate course will be offered fall semester and is open to BSGP students. Topics include stem cells, angiogenesis, EMT, metastasis, and tumor immunity. Please see the attached course flyer for more information.

Microbial Pathogenesis Journal Club

Fall Semester 2018

When: Fall 2018, Fridays 3:00-5:00, BRT 424
Instructors: Kevin Mason, Jacob Yount

Course description and learning objectives: This 2 credit hour course meets weekly for 1.5-2.0 hours for student led journal article presentation and discussion in the field of Microbial Pathogenesis. Weekly, one student will present a current paper from the literature that represents some aspect of Host-Pathogen interactions. The presentation will be a PowerPoint presentation of background and figures from respected top-tier journals. Prior to class, all students turn in a summary of the manuscript and two questions related to the manuscript.

Specific topics: Gram-negative pathogenesis, Gram-positive pathogenesis, Parasite Pathogens, Fungal Pathogens, Viral Pathogens, Biodefense Pathogens

Prerequisites: BSGP 7724 or permission of instructor

Grading: Class grades will be determined by presentation evaluation, written summary of the manuscript and weekly participation in discussion.

Molecular Virology and Pathogenesis of Disease

AU 2018 | 5 credit hours
MWF 9:00-11:00am
430 Veterinary Medicine Academic Building

See the attached flyer for more info

Selected Topics in Advanced Immunology/BSGP 8010 Fall
2018

2 Credit Hours
When: Fall 2018/2020/2022
   Mondays and Wednesdays 1:30-2:20pm
   Graves Hall 1175

Prerequisite: MVIMG7010/M7010

Course description and learning objectives
Using didactic teaching, literature based reading, and in-class discussion this course will provide students with an understanding of complex immunological concepts and how they relate to specific diseases. The purpose of this course is to extend students knowledge of general immune mechanisms as learned in MVIMG7010/M7010 to understand the plasticity and specificity of immune responses in health and diseases.

Specific topics
Innate immunity, development and activation of lymphocytes, mucosal immunity, infectious diseases, vaccination, autoimmune diseases, cancer, immune responses in the CNS, immunity at the fetal/maternal interface and during pregnancy.

Grading: Satisfactory/unsatisfactory based upon class participation and writing of a one page summary on each topic discussed during the semester.

For additional information contact Stephanie Seveau (Seveau.1@osu.edu)

Fellowships

*T32 Congenital & Acquired Heart Disease Fellowship Program
A postdoctoral fellow position is available for the T32 Fellowship Program entitled, "Training in Congenital and Acquired Heart Disease." The program is jointly hosted by the Research Institute at Nationwide Children's Hospital and the Dorothy M. Davis Heart and Lung Research Institute at The Ohio State University (PIs: Dr. Vidu Garg and Dr. Peter Mohler).

See the attached flyer for more information

Postdoc Fellow Position | NIH/NIA-Intramural Research Program
Please see the attached flyer for more information about this opportunity.

American Society of Human Genetics Fellowship Opportunities

Genetics Education & Engagement Fellowship
This fellowship program is designed for genetics professionals (or life scientists with substantial experience in genetics or genomics) who: have an advanced degree, are early in their careers, and are interested in developing and implementing genetic and genomic literacy, engagement, diversity, and/or professional development initiatives for audiences comprising K-12, undergraduate, graduate, post-graduate, and professional. The fellow will participate in rotations at the NHGRI and ASHG, and typically a third organization involved in genetic and genomic literacy, engagement, diversity, or professional development.

Genetics & Public Policy Fellowship
This is a fellowship program designed for genetics professionals with an advanced degree who are early in their careers and interested in the
Post-Doc Opportunities

**Postdoctoral Fellow in HIV Virology and Immunology at Colorado State University**

There is a wonderful opportunity to be a part of a lab that contributes to fighting the world's AIDS epidemic and finding the ultimate cure at Colorado State University in beautiful Fort Collins, Colorado. The post-doc will use cutting edge immunology and virology techniques and approaches utilizing new generation humanized mouse models as part of research on HIV/AIDS pathogenesis, prevention and therapies. This represents a unique opportunity in molecular/translational virology research using humanized mouse models, lentiviral vectors, RNAi, and stem cells. This position will provide valuable experience for a future in either academia or industry.

Interested applicants must have experience with flow cytometry, qRT-PCR, and other molecular virology and immunology techniques. Additional experience with small animal handling is desired but not essential.

Research Description:


Please contact: Dr. Ramesh Akkina

**Current Postdoctoral Openings at Cincinnati Children's Hospital**

Please see the attached flyer for more information regarding Cincinnati Children's Hospital Medical Center and their current position openings.

**Postdoctoral Opportunity in the Neurosciences (Virginia Tech)**

The Department of Biomedical Sciences and Pathobiology, Center for Regenerative Medicine at Virginia Tech is looking for a highly motivated Postdoctoral Associate in Molecular and Cellular Neurobiology. The successful candidate will work on an interdisciplinary research project focused on murine models of traumatic brain injury and epilepsy. Qualified candidates will be expected to work in a team environment investigating vascular-glial interactions during TBI-induced epileptogenesis. Our multidisciplinary approach requires an in-depth understanding of the biochemical, molecular and cellular neurobiology of CNS injury and/or epilepsy. Candidates will work in coordination with the VT-School of Neuroscience, Center for Glial Biology and Biomedical Engineering & Mechanics. Primary duties include TBI surgery, EEG analysis, multi-photon imaging and histopathology. Additional skills requested but not required include qPCR, Western blot analysis, brain tissue processing, single cell isolation, and tissue culture. Data analysis and manuscript preparation will be conducted. The candidate will be expected to attend lab meetings, maintain laboratory spaces in a clean and good working order and maintain a high level of organization in data collection and storage. Apply on-line: https://listings.jobs.vt.edu/postings/85970
Assistant Professor Position Opening

The Department of Biology at Bryn Mawr College invites applications for a full-time, tenure-track Assistant Professor position in the area of Immunology to begin August 1, 2019. We are searching for a broadly trained individual whose immunological expertise will support programs in Biology, Biochemistry & Molecular Biology and Health Studies. The successful candidate will thrive in an environment that combines teaching, research and interdisciplinary collaboration, establishing an externally funded research program that includes involvement of undergraduate students of diverse backgrounds. Teaching responsibilities will include courses in immunology and in the candidate's area of expertise, participation in the team-taught introductory biology sequence, and regular contributions to the Health Studies minor. Candidates who have the potential to contribute to the Neuroscience or Environmental Studies minor and/or other College initiatives are especially encouraged to apply. A Ph.D. and at least one year of post-doctoral research experience are required by the start date.

To apply for this position, candidates must submit a cover letter, curriculum vitae, research statement and teaching philosophy that includes a short description of potential courses to be offered by October 5, 2018 to Biology Search Committee via Interfolio at: https://apply.interfolio.com/52079. In addition, arrange for three letters of recommendation to be submitted via Interfolio to the Biology Search Committee. Applications received by October 5, 2018 will receive full consideration.

Bioinformatics/Scientific Curator Position Openings

Please see the attached flyer with more information regarding these ThermoFischer Scientific job openings.

Postdoctoral Fellow Position in Redox Signaling at Johns Hopkins

The Kohr Laboratory of Cardiovascular Redox Signaling has an immediate opening for a postdoctoral fellow position. This is an excellent opportunity to join an exciting, NIH-funded research team focused on demystifying sex-specific, redox-dependent differences in the heart’s response to ischemic injury with the ultimate goal of identifying novel, cardioprotective signaling pathways. The role of protein S-nitrosation in the female heart, which is naturally protected from ischemic injury, is a major focus of current studies. We have developed a number of cutting edge mass spec-based proteomic methodologies to map sites of S-nitrosation and other redox-based modifications, and we use these in tandem with cellular, molecular, and biochemical methods to assess the effects of S-nitrosation on the function, stability, and localization of specific protein targets. We also utilize a number of physiological approaches to evaluate myocardial function, including the Langendorff-perfused heart preparation, in vivo pressure-volume loop analysis, and echocardiography. Our lab primarily utilizes cell and mouse-based models for experimentation. By defining female-specific and other protective signaling pathways in the heart, we are working to identify key therapeutic targets for the treatments of ischemic heart disease in both men and women.

We are seeking a creative scientist to pursue independent and collaborative research within the Bloomberg School of Public Health and the School of Medicine at Johns Hopkins University. State of the art facilities and excellent core laboratories are available for research projects. The applicant should possess a PhD, MD, or equivalent. Preferred qualifications include experience in heart physiology, proteomics
NIGMS Postdoctoral Research Associate (PRAT) Training Program

The NIGMS PRAT Program is a competitive three-year postdoctoral fellowship program that provides high quality research training in the basic biomedical sciences in NIH intramural research laboratories, and prepares trainees for leadership positions in biomedical careers. The program places special emphasis on training fellows in all scientific areas supported by NIGMS, including but not limited to, biological chemistry, biophysics, bioinformatics, cellular and molecular biology, computational biosciences, developmental biology, genetics, immunology, neuroscience, pharmacology, physiology, and technology development. Appointments are made at competitive stipend levels, commensurate with experience and recognition of selection for this program, and fellows receive a travel and training allowance.

Webinar information: The webinar will be on Wednesday, June 20 at 1:30 PM Eastern. To access the webinar, visit the WebEx meeting page and enter the meeting number (access code) 625 876 209 and the password MJRSPPSrh. You can also attend by phone by calling 650-479-3208. Slides will be posted on the PRAT website following the event. More information can be found [here](#).

Individual Fellowship Opportunity in Europe

**Individual Fellowship (IF)** under the prestigious Marie Curie grant program. This is a prestigious, EU-funded fellowship aimed to non-French, experienced researchers (Postdocs) willing to perform research in an European innovative biotech. This funding will result in a two year post doctoral appointment (~53k€/year gross salary depending on the candidate's family situation) in our headquarters in Paris, where the selected candidate will conduct cutting-edge research and receive training in business and entrepreneurship. We propose to applicants one of our many research topics related to microfluidics, cell biology, molecular biology, biophysics, medical, and cancer research. Nevertheless, we are also open to any new research topic linked to biotechnology that the applicant is willing to pursue.

Postdoctoral Fellow Position in the Cleveland Clinic

**Contact**: Jessica Williams, PhD

**Description**: A Postdoctoral Fellow position is available in the Cleveland Clinic Lerner Research Institute in the Department of Neurosciences to investigate adaptive immune responses in central nervous system (CNS) glia in the context of autoimmunity and repair. The successful candidate will help lead a multidisciplinary team to elucidate novel mechanisms that impact injury and recovery during CNS autoimmunity, focusing on Multiple Sclerosis. Research projects include: 1) elucidating cytokine-mediated intercellular communication networks in glia during CNS development and repair and 2) investigating the role of glia-specific cytokine signaling during neuroinflammation. A strong work ethic, proficiency in verbal and written English, and a PhD and/or MD are required. Experience with murine models of human disease and expertise in neuroscience and/or immunology are strongly preferred.

Please send your curriculum vitae, a brief description of your research interests, and contact information for 3 references to Jessica Williams, PhD (williaj39@ccf.org).

Post-Doctoral Position- Vascular Biochemistry

**Title**: Postdoctoral Researcher

**Contact Email**: Lianwang.guo@osumc.edu
For more information, including the job description, please see the attached flyer.

### NCI Graduate Student Recruiting Program

The attached handout has information regarding post-doctoral fellowships within the NCI.

### Other News and Events

#### Procter & Gamble FIRST Program

P&G's recruiting conference, FIRST, is the premier conference for outstanding doctoral and postdoctoral scientists. FIRST is a 3-day, all-expense paid program for top Ph.D. students who are looking to gain exposure to the future of technology from an industry leading company. Meet and learn from some of our nationally awarded scientists and engage in real-world discussions on what companies are looking for in new employees, cultural and workforce diversity, and future innovation.

Please see the attached flyer for more information.

#### Graduate Business Minor for Health Sciences

The Ohio State University's health sciences colleges train highly motivated and intellectually outstanding students to be experts in their field. Given the changing nature of the health sciences industries, there has never been a time when employers have placed such a premium on business acumen and principled leadership. The graduate business minor addresses this growing demand by providing graduate-level business training through the Fisher College of Business to Ohio State students pursuing advanced degrees in health science fields.

**Program highlights:**

- Gain a rich and powerful toolset for addressing today's managerial and business challenges.

No matter where your career leads, you'll make critical decisions with significant consequences. This program gives you the foundation to anticipate, tackle, and resolve the broad set of challenges you will face.

- Experience a dynamic in-class, case-based learning environment.

Learn from face-to-face interaction with leading researchers and practitioners.

- Complete the program in one accelerated summer.

It takes just three months to develop and hone your leadership skills in this rigorous program which does not require additional time before graduation and does not overlap with your primary program.

- Share the classroom experience with a diverse set of students.

Collaborate, learn with, and learn from other students in health science programs from all around The Ohio State University campus.

- Connect the classroom experience to real-world business challenges.

In the capstone project management class, you'll deeply interact with an organization in your industry and apply your new skills to a real-world problem.
Distinguish yourself! You're about to enter a competitive labor market. This one-of-a-kind program will help you differentiate yourself from other students in your profession.

Program Details:

* 12 total credit hours.
* M-Th Evenings in summer term.
* Does not extend your time to graduate.
* Does not impact your program GPA.
* Earn a Graduate Business Minor in addition to your primary degree.

https://fisher.osu.edu/graduate/graduate-minor-business-health-sciences

To find out more about the program, contact Prof. Benjamin Campbell

Need Help? CCS is here for you!
You can find more information about the services provided at Counseling and Consultation Services on their website.