BioMolecular Science Weekly
October 1st-5th, 2018

Calendar:
Monday, October 1st

BMS Research Forum, 12:00 PM, 162 Food Safety
Jason Schrad, BMB, Kristin Parent Lab, “Stargate SMBV-1”

WiPS Seminar, 12:00 PM, 1425 BPS
Sue Umthong, Cheng Lab, “Identifying the underlying mechanism of Marek’s disease vaccine synergy”

Tuesday, October 2nd

MMG Seminar, 4:10 PM, 1415 BPS
Dr. David Tobin, Duke University, “From Zebrafish to Humans: Macrophage Reprogramming during Tuberculosis”

Wednesday, October 3rd

CMB & Genetics Research Forum: 12-1 PM, 1425 BPS
Jens Schmidt, CMB Faculty, “Single Molecule Analysis of Telomerase Mediated Telomere Maintenance”

Pharm Tox Seminar, 12:00-1:00 PM, B448 Life Sciences
James Pivarnik, MSU, “Fitness Testing of NCAA Division I Athletes: What Can We Learn?”

Thursday, October 4th

BMB Seminar, 11:00 am, Room 101 Biochemistry

Plant Resilience Brown Bag Series, 1:00 PM, 168 Plant Biology
Shinhan Shiu, “Predicting plant phenotype using genotype and expression data”
Reza Sohrabi, “Probing the role of native soil microbiota in local adaptation and resilience of yellow monkeyflower, Mimulus guttatus”

EEBB Seminar, 3:30 PM, 1420 BPS
Eileen Hebets, Biological Sciences, University Nebraska-Lincoln
“Sensory systems, learning, and communication - insights from the enigmatic world of arachnids”

Plant, Soil, and Microbial Science Seminar, 4:00-5:00 PM, A149 Plant and Soil Science Building
Wenqing Xu, Villanueva University, Title TBA

Physiology Seminar, 4:00 PM, 1425 BPS
Michelle Mazei-Robison, PhD, “Role of ventral tegmental area dopamine neurons in opiate reward and stress”

Friday, October 5th

BEACON Seminars, 3:30 PM, BEACON conference room inside BPS

Plant Biology Seminar, 3:30 PM, PLB 168
Erin Tripp, Univ. Colorado Boulder, EEB, Title TBA

Science at the Edge Seminar, 11:30 AM, 1400 BPS
David Kaplan, Institute for Nuclear Theory and Department of Physics, University of Washington, “Formulating Nonabelian Gauge Theories for a Quantum Computer”
New Student Spotlight:
Hunter Dulay

Hunter Dulay graduated from the University of California, Santa Cruz in 2015 with a Bachelor of Sciences degree in Molecular, Cell, and Developmental Biology. Hunter’s research experience has been in hydrogen production by purple bacteria, protein structural analysis of thermophilic organisms, the development of metabolic syndrome in mice, and stem cell activation and metabolism. He is interested in the study of extremophiles and microbial ecology in order to better characterize the conditions necessary for life on Earth, in our solar system, and beyond. When not studying the stars and microbes Hunter enjoys playing trombone and piano, running, and cooking. In the past few weeks of Michigan living Hunter has seen more rain and lightning than the rest of his previous California life but still loves to be outside and immersed in the natural beauty of the Great Lakes State.

Announcements:
Science Debate Student Group
Wednesday, October 31st at 12PM in 2245 BPS
Do you love science? Are you interested in how science intersects with policy? Come join the MSU Science Debate student group! Enjoy free food and engage in a discussion led by Dr. Wolfgang Bauer, about the science policy of climate change and energy. Training and phone banking for the Science Debate questionnaire.
Science Debate is a nonprofit nonpartisan organization dedicated to encouraging politicians to give their thoughts on science policy topics. Email Taylor Dunivin (dunivint@msu.edu) or Amanda Koenig (koenigam@msu.edu) with questions, or visit sciencedebate.org for more information.

2018 Southeast Michigan Postdoctoral Symposium
October 6, 2018, 8:30 AM-5:30 PM, University of Michigan’s North Campus Research Complex
Open to Postdocs and Grad Students from all disciplines
Keynote Speaker: Shaughnessy Naughton, Founder and President of 314 Action
Shaughnessy founded 314 Action to encourage and unite the scientific community to do more than just advocate for science, and to get involved in the political process. That means run for office, at any level, organize and call on your representatives to stand with science and to make your voices heard. Science is and always should be above politics.
Additional Speakers Include:
Joy Rohde, Interim Director of UM Science Technology Policy Program
Michael Cianfrocco, Assistant Professor of Biological Chemistry
David Olson, Mentor-in-Residence at UM Tech Transfer Office
To register($15) visit https://umpda.rackham.umich.edu/symposium/

COGS Upcoming Events, Discounts, and Services
Check out COGS special discounts and services:
[COGS Discount Wharton Center Tickets – COGS offers $5 off the regular student price for a limited number of tickets to a selection of shows throughout the year. Be sure to check our website Events page often for available ticket sales. Right now Broadway musical, School of Rock, tickets are available for Graduate & Professional students to purchase for $24 ea. Visit: https://cogs.msu.edu/home/upcoming-events/ (MSU ID needed for ticket pick-up at the COGS office.)]
[COGS Wings Wednesday - All day wings are half off at Harrison Roadhouse every Wednesday for grad/professional students wearing a COGS wristband. Need a wristband? Stop by the COGS office in Chittenden Hall (room 120) and get one.]
Free Legal Services - visit http://cogs.msu.edu/resources/services/legal-aid/ for more information.
Short Term Loans - visit http://cogs.msu.edu/resources/services/loans/ for more information.
Funding Opportunities - visit http://cogs.msu.edu/resources/funding/ to learn more.

COGS Upcoming Events:
October 11 – COGS Coffee Hour. Located in the lounge in Chittenden Hall. 4 pm to 5 pm. Enjoy coffee, snacks and conversation!
October 28 – COGS Annual Detroit Red Wings Bus Trip: A limited number of tickets will go on sale Oct. 1st at noon. Game Date is Sunday, October 28th - puck drops at 5:00 pm. See the Detroit Red Wings face the Dallas Stars at Little Caesars Arena. Ticket Combo costs $50 and includes: (1) game ticket, round-trip charter bus transportation from MSU Campus, and a $10 concessions credit. Limit 2 combos per student. Available until sold out.

AND MORE! Please like and follow us on Facebook & Twitter for updates and visit our website for more information. We look forward to getting to know you this year!
Job Opportunities:

Postdoctoral Associate Position:

Position summary: The Caswell laboratory at Virginia Tech is seeking a Postdoctoral Research Associate to study virulence mechanisms in the pathogenic bacterium Brucella abortus. This NIH-supported position has 2 years of guaranteed funding. The Associate will conduct research projects related to defining genetic mechanisms and biochemical systems important for Brucella pathogenesis.

Required qualifications: Ph.D. in microbiology, molecular biology, or related discipline. Strong background in bacterial genetics, biochemistry, or animal models of infectious disease. Track record of peer-reviewed publications in high quality journals. Demonstrated ability to work independently and organize and prioritize work. Excellent communication skills and the ability to work closely with other individuals. Ability to obtain clearance for independent work in a Select Agent BSL-3 laboratory.

Preferred qualifications: Experience with genetic manipulation of bacteria. Experience with microscopy. Desire to develop scientific writing skills.

Distribution of duties: 95% research and scholarship. 5% teaching and instruction.

Duration of position: 2 years.

Position availability: Immediately.

Required materials: Cover letter, CV, and list of three references.

Website: https://listings.jobs.vt.edu/postings/90026

Posting Number: SR0180163

Postdoctoral, Visiting Scholar and Technician Positions at Cincinnati Children’s Hospital Medical Center (CCHMC): Cincinnati, OH, United States

Postdoctoral, visiting scholar and technician positions in bioinformatics and epigenomics (computational/experimental) are available at Dr. Yaping Liu’s lab in the Department of Pediatrics, Cincinnati Children’s Hospital Medical Center (CCHMC) to study epigenomics in circulating nucleic acid. Our group will focus on using genetic and multi-dimensional epigenetic information in circulating cell-free DNA and exosomes to understand the gene regulation at the species level and therefore bridge the gap between genetic and phenotypic variations at different healthy and pathological conditions. Dr. Yaping Liu is an incoming tenure-track assistant professor and will join the department at CCHMC in January 2019. Dr. Liu received his B.S. from Nanjing University in Biotechnology and Ph.D. in Genetics from University of Southern California under the supervision of Dr. Benjamin Berman. He finished his postdoctoral training at Dr. Manolis Kellis lab in MIT and Broad institute of MIT and Harvard. Right now he is a principal computational biologist in Freenome Inc. to do cancer early detection research by using genomics in liquid biopsy.

What We’re Looking For:

Computational postdoctoral positions:

Ph.D. (recent/expected) in computational biology, bioinformatics, genomics or quantitative research fields

Proficiency with at least one high-level scripting language (R/Python/Perl) and Linux operating system

Excellent quantitative background in statistics and machine learning, and/or computational genomics background. Familiarity with large scale next generation sequencing (NGS) data analysis

At least one first or co-first author SCI paper published or accepted

Highly motivated and ability to work independently

Fluent in English (spoken and written)

Experimental postdoctoral positions:

Ph.D. (recent/expected) in biomedical related field

Strong training background in one or more of the following areas: epigenetics/epigenomics, genetics/genomics, immunology or lipid biopsy

While having specific experience in one or more of these areas is ideal, we are also interested in candidates with strong training in other relevant fields.

At least one first or co-first author SCI paper published or accepted

Highly motivated and ability to work independently

Fluent in English (spoken and written)

Research assistant positions:

B.S./B.A. level or above in biomedical related field

Familiar with basic molecular biology techniques (PCR, qPCR, mammalian cell culture) and NGS library preparation (WGS, WGBS, RNA-seq, ChIP-seq and/or related)

Highly motivated

Fluent in English (spoken and written)

Anticipated start date is January 14th, 2018 or after. Generous stipends will be paid according to NIH postdoctoral stipend levels with additional CCHMC benefit (e.g. health insurance, retirement plan and generous relocation package will be provided, details in https://www.cincinnatichildrens.org/education/research/postdoctoral ). Potential candidates are encouraged to send a cover letter, CV, and names and contact information of 2-3 referees to: Yaping Liu, Division of Human Genetics, Cincinnati Children’s Hospital Medical Center, Cincinnati, OH, USA. Email: yaping1986@gmail.com

Postdoctoral Positions in Cell and Developmental Biology

A fully funded, 5-year Postdoc position in the McNeill lab is available to study how the nuclear envelope regulates gene expression during regeneration in fly and mouse models. One focus there is to understand how the Hippo pathway regulates branching morphogenesis in mouse embryonic kidney explants. Expertise in imaging would be very helpful.

The McNeill lab (http://mcneillab.wustl.edu/index.html) studies how cell fate and cell proliferation are controlled in vivo, using diverse model organisms. The lab is located in the Department of Developmental Biology at Washington University School of Medicine. Consistently ranked among the top 10 US medical schools, Washington University School of Medicine offers a highly interactive and stimulating academic environment for scientists in training. The lab is in a highly collaborative environment, with outstanding resources. We are located in the heart of the Central West End, a vibrant St. Louis neighborhood adjacent to major cultural institutions and one of the country’s largest urban parks. We offer competitive salary and benefit packages and candidates are eligible to apply for a Rita Levi-Montalcini Postdoctoral Fellowship offered by the Center of Regenerative Medicine.

To apply please submit a CV, a cover letter describing research interests, and contact information for two references who can comment on your research to mcneill@wustl.edu. Applications will be reviewed promptly until the position is filled. Washington University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations.