Save The Date:

BMS Recruitment Weekends: January 11 – 13, 2018 and February 8-10, 2018
Current graduate students and faculty, please set aside some time during these dates to assist/volunteer with recruiting events and social activities. More details to follow.

Plant Science Recruiting Weekend: February 1-4, 2018
Most activities will take place on Friday, Feb. 2, so please reserve this date to help recruit outstanding plant science Ph.D. applicants to MSU. More details to follow.

Calendar:

Monday, October 30th:
Genetics Journal Club: Reid Blanchett; “Sex-specific Transcriptional Signatures in Human Depression”; 1:00 PM; BPS 1425

BMS Research Forum: Meredith Frie, P. Coussens Lab; “Assessing the Immune Competence of Dairy Cattle Naturally Infected With Bovine Leukemia Virus”; 12:00 PM; 162 Food Safety

MPS Seminar Series: Professor Adriene Roeder; “Plant Cell Division and Cell Size, Especially in Flower Development”; 4:10 PM; 1200 Molecular Plant Sciences

WiPS Seminar: Brian Zhou, Kaminski Lab; “The Role of Lymphocyte Specific Tyrosine Kinase (LCK) in Aryl Hydrocarbon Receptor (AHR)-mediated Impairment of Immunoglobulin Secretion by Human Primary B Cells.”; Krista Cosert, Reguera Lab; “Electronic characterization of Geobacter sulfurreducens pilins in self-assembled monolayers”; 12:00 PM; 1425 BPS

Tuesday, October 31st:
MMG Seminar: Dr. Zhiyong Xi, MSU; “Dissecting Wolbachia-host Interactions Underlying Pathogen Interference and Symbiosis Establishment in Mosquito and Developing Field Trials to Combat Zika and Dengue”; 11:00 AM; 101 Biochemistry
**DOE Plant Research Seminar:** Tina Dominguez Martin (Kerfled); “Characterization of the Helical Carotenoid Proteins (hcps) From Fremyella Diplosiphon”; 12:00 PM; 168 Plant Biology

**Genomics Core Seminar:** Peter Dornbos, LaPres Lab, Department of Biochemistry and Molecular Biology, MSU; “Gene Expression Profiling with NanoString Technology to Identify Genetic Modulators of Aryl Hydrocarbon Receptor (AHR)-Mediated Toxicity”; 12 PM; 162C Food Safety and Toxicology

**Wednesday, November 1st:**

**3M Interest Group:** Phillip Delekta, Hammer Lab; “TBA”; 4:00 PM; iCER Seminar Room, 1455-A BPS

**CMB Research Forum:** Mike Rizzo; “Δ9-Tetrahydrocannabinol (THC) Impairs Human Monocyte Transition into the CD16+ Inflammatory Phenotype and Monocyte Production of IP-10: Can Cannabinoids Decelerate Peripheral Immune Mechanisms That are Implicated in HIV-associated Neurocognitive Disorders?”; 12:00 PM; 1425 BPS

**Pharm Tox Seminar:** Ronald Chandler, Michigan State University; “The Kidney Vasa Recta Harbors an Injury and Tumor Prone Endothelial Progenitor Cell Niche”; 12:00 PM; B448 Life Sciences

**Thursday, November 2nd:**

**BMB Colloquium Series:** Huilin Li, Van Andel Research Institute; “Molecular Events during the Initiation of Eukaryotic DNA Replication”; 11:00 AM; 101 Biochemistry

**EEBB Seminar:** Anne Pringle, Botany and Bacteriology, University of Wisconsin-Madison; ”Convergent Interactions and the “Lack of Convergence among Genome Architectures of Closely Related Symbiotic Fungi”; 3:30 PM; 1420 BPS

**Friday, November 3rd:**

**MMG PhD Preliminary Examination Announcement:** John L. Chodkowski, MMG PhD Graduate Student; “Ecological and Evolutionary Consequences of Exometabolites for Microbial Interactions”; 1:15 PM; 1425 BPS

**Science at the Edge:** John Ralston, Department of Physics & Astronomy, University of Kansas; “How to Find Gold in Data”; 11:30 AM; 1400 BPS

**First Friday Coffee:** The Plant Biology Building Coffee Break takes place on the first Friday of each month during the academic year. Come enjoy free juice, coffee, tea, muffins, bagels, and get acquainted with people from the Plant Research Lab, the Plant Biology Department, and more!; 9:30 AM- 10:00 AM; 168 Plant Biology

**EEBB Seminar:** Anne Pringle, Botany and Bacteriology, University of Wisconsin-Madison; ”Life and Death in a Petersham Cemetery: Dispersal and Demography among Fungi”; 10:45 AM; 237 Stack, Kellogg Biological Station

**BEACON Seminar:** Dhivya Arasappan, UT; “TBA”; Dennis Wylie, UT; “TBA”; 3:30 PM; BEACON Conference Room
**Announcements:**

**Bus House Halloween Open House**  
October 29th, 1:00 – 4:00 PM; 146 Natural Science Building

Our Halloween Open House provides an opportunity to see the Bug House for free and meet some of our creepy crawlers. Great event for kids and parents alike.

**The G. Malcolm Trout Visiting Scholar Program**  
November 7th, 5:00 PM (Reception), 6:00 PM (Lecture); Heritage Room, University Club, 3435 Forest Road, Lansing, MI 48909

Please join us for the Twenty-Ninth Annual G. Malcolm Trout Lecture in the Department of Food Science and Human Nutrition. “Nutrition, Infant Feeding and Child Development: A Cross-Cultural Odyssey”

Presented by Margaret (“Peggy”) Bentley, M.A., Ph.D., Distinguished Professor of Global Nutrition, Associate Dean for Global Health, Gillings School of Global Public Health, University of North Carolina-Chapel Hill

**COGS Annual Detroit Red Wings Bus Trip**  
November 19th, 5:30 PM

A limited number of tickets will go on sale Oct. 17th at 9:00 AM. Game Date is Sunday, November 19th - puck drops at 6:00 pm. See the Detroit Red Wings face the Colorado Avalanche at their new home in Little Caesars Arena. Ticket Combo costs $36 and includes: (1) game ticket, round-trip charter bus transportation, and a $10 concessions credit. Limit 2 combos per student. **Tickets will go on sale 10/17 at 9:00 am.** [Link to order](https://commerce.cashnet.com/msu_3754)

**COGS 10th Annual Graduate Academic Conference Call for Abstracts**  
Graduate Academic Conference February 17, 2018

The Council of Graduate Students announces the 10th Annual Graduate Academic Conference will take place on February 17, 2018 at the MSU Union. We are now accepting abstracts for poster and oral presentations, due by December 15th. New this year, we are hosting a Three Minute Thesis Competition. The top three oral, poster, and 3MT presentations will each be awarded prizes of $300, $200, and $100, respectively.

In addition to the competition, presenters will have the opportunity to participate in workshops to enhance their communication skills. Please see the attached call for abstracts or visit our webpage ([http://cogs.msu.edu/gac/](http://cogs.msu.edu/gac/)) for more information.

**Grad Group Fitness Classes**  
Register today for these fun community style fitness classes with your fellow graduate students! More information and registration can be found here: [grad.msu.edu/FitnessClasses](http://grad.msu.edu/FitnessClasses)

**Academic Women’s Forum**  
November 14th, 3:30 – 5:00 PM; 110 Chittenden Hall
All faculty, academic staff, post-docs, librarians and graduate students who identify as women are cordially invited to participate in the MSU Academic Women's Forum. The forum has been created to provide a safe-space to connect, build community and explore issues that are relevant to the success, support and empowerment of academic women at Michigan State University.

**Research Evening hosted by MSU Institute for Integrative Toxicology & the EITS Graduate Program**

**Monday, November 13, 2017; 5:15 to 8:00 PM; Lincoln Room, Kellogg Center, MSU**

Poster session, dinner served, student presentations.

Please come interact with graduate students, postdoctoral fellows and faculty in the Environmental and Integrative Toxicological Sciences Program. Graduate students in participating departmental programs are invited to share in the interactions and learn about the opportunity to add an Environmental Toxicology emphasis to their Ph.D. program.

Please RSVP by Friday, November 3 to Adelle Simmons at asimmons@msu.edu.

**Announcement from the Office of Regulatory Affairs**

In December 2017, Michigan State University is implementing a new research compliance system, Click™, to manage its Institutional Review Board (IRB) activities. This will affect graduate students with current and future human subjects’ research applications and protocols. Click™ will help streamline the compliance process and enhance security and application transparency for student and faculty investigators.

Educational opportunities, quick guides, and video demonstrations will be available on the Research Administration Project website this fall. There will be additional communications this fall about the upcoming IRB implementation, including training dates and the transition process for active projects. We encourage you to participate in these educational opportunities if your research involves human subjects. Please visit the Human Research Protection Program’s website and the Research Administration Project website for additional information.

**Course Announcement: Multi-disciplinary Approaches to the Study of Evolution**

**CSE 845, Spring 2018**

Instructors: Chris Adami (MMG, MSU) & Wolfgang Banzhaf (CSE, MSU)

This course provides an introduction to multi-disciplinary research – via collaborations involving biologists and other natural scientists, computer scientists, and engineers – addressing fundamental questions about the dynamics of actively evolving systems (both biological and computational). Students will work on projects in multi-disciplinary teams, with guidance to help them develop an understanding of the nature and challenges of such collaborative endeavors and how to overcome discipline-specific language and conceptual issues. Through lectures, students will be introduced to fundamental topics in statistical analysis and information theory, as well as methods of evolutionary computing. How to give scientific talks and write scientific manuscripts will also be a topic of the course.

This year’s course will use MABE again as its computational program. The platform is very flexible and allows custom computational evolution projects to be carried out fast and effectively. See:

Code: [github.com/ahnt/MABE](https://github.com/ahnt/MABE)
The code's chief architect is Cliff Bohm, and he will be the TA for the course. Using this tool, it is possible to set up almost any digital evolution project, but it is also possible to use MABE to study Genetic Programming, which is the focus of Dr. Banzhaf's research and lectures. The Wiki page for last year's edition of CSE 845 (cross-listed as MMG 845 and IBIO 845) is here, and is being updated.

If you wish to have your enrollment in this course appear on your record as MMG 845 or ZOL 845, enroll in CSE 845 (section 001) and then contact the MMG or IBIO department when this class is completed.

Course Announcement: Plant Biotechnology for Health and Sustainability
BMB 961, Section 001, 3 Credits, Spring 2018

Coordinator: Bjorn Hamberger

Other Participating Faculty: Christoph Benning (instructor), Tom Sharkey (instructor), invited MSU Faculty and External Participants

Date/time: Tuesdays/Thursdays, 9-10:20 a.m. in 1030 Molecular Plant Sciences

Prerequisites: Basic knowledge in molecular biology, genomics, or plant biochemistry as demonstrated by having completed at least one of the following graduate level classes: BMB801 molecular genetics, BMB961 plant biochemistry, BMB865 plant molecular biology

Limitation: 15 Students

Description: This course is in part of an interdisciplinary effort to foster opportunities for graduate students with interest in plant biotechnology. A broad overview of the state-of-the-art plant biotechnology and related fields will be provided. In addition, students are encouraged to think about concepts and ideas that can be potentially commercialized. Special emphasis will be on plant metabolic pathways that impact human health and nutrition, as well as sustainability in the production of therapeutics, food and fuels from plants and algae. Examples and case studies will be discussed that cover hosts, strategies and pitfalls in expression of foreign pathways. Examples are chosen to explain in simple terms basic metabolic engineering principles, including synthetic biology approaches to generate, analyze, and optimize transgenic plants or algae. Some of the chosen cases will be particularly suited to discuss regulatory and commercial issues related to genetically modified organisms (GMOs) and the ‘share-your-parts’ philosophy, as promoted for example by the international genetically modified machine (iGEM) initiative. To actively participate in the course, students need to have a basic understanding of molecular biology, genomics, or plant biochemistry, and are expected to read background and original research papers as assigned. Students will be guided to develop a 3-page brochure presenting a scientific idea for a plant biotechnology based product or process with a recognized need or new opportunity. The students will need to lay out the idea, present reasonable milestones and be aware of potential technical, commercial, or societal hurdles, and articulate how the proposed technology would address the need or opportunity. Relevant concepts (novel technologies for genome editing, societal acceptance and outreach, IP aspects) will be discussed and a list of topics will be developed during the first three weeks of the course together with the students. The instructors will provide guidance and feedback to the students on an individual basis as they develop their project.
During the final sessions of the semester, students will be asked to pitch their idea in a 10-minute presentation, followed by feedback from the entire group.

Note: if you are not a Biochemistry Graduate Student, you’ll need to submit the BMB online course override form found in the “Undergraduate” drop down menu on the BMB Dept. website homepage: www.bmb.natsci.msu.edu

Plant Biotechnology for Health and Sustainability Symposium
Registration is open for the Plant Biotechnology for Health and Sustainability Symposium being held on October 26-27 in various locations on campus. The full schedule of events is at: https://plantmetabolism.natsci.msu.edu/events/2017-symposium/2017-symposium-schedule/.

This symposium features talks by speakers from the public sector, government and industry who will talk about research and careers related to microbial biology, plant biology and plant biotechnology. There will be abundant opportunities to interact with the speakers, to learn about their science and career paths. The list of topics and speakers is at https://plantmetabolism.natsci.msu.edu/events/2017-symposium/

To register for part or all of the symposium, please navigate to: https://docs.google.com/forms/d/e/1FAIpQLSfeOSJUK4424Q7wo8snJBajNsCcJZBRE-uug9_NqJT2ZhRuNQ/viewform.

Job Opportunities:

Positions Available at the University of Kansas
Assistant or Associate Professor in Biochemistry, Assistant or Associate Professor in Microbial Pathogenesis; Department of Molecular Biosciences

We invite applications for two faculty positions as tenure-track assistant or associate professors. One position is in the area of Biochemistry and another in the area of Microbial Pathogenesis. Candidates are expected to develop an internationally visible, rigorous, and well-funded research program and to effectively teach and mentor undergraduate and graduate students. Included for the Microbial Pathogenesis faculty position are specific resources and support mechanisms associated with the NIH Chemical Biology for Infectious Disease Center of Biomedical Research Excellence (https://cbid.cobre.ku.edu/). As such, preference will be given to those applicants with current or future plans that incorporate an aspect of chemical biology into their research.

The University of Kansas is a member of the prestigious Association of American Universities. KU is a major educational and research institution located in Lawrence, a vibrant, thriving community of more than 90,000 and close to Kansas City and the KU Medical Center.

Applicants must have a PhD or equivalent degree in the chemical or biological sciences and at least two years of post-doctoral research experience. Applicants at the Assistant Professor level are expected to demonstrate potential for establishing an independent, externally-funded research program, and those at the Associate level must have extramural funding (as PI or MPI) with clear potential for continuance. The successful candidate will also direct graduate student research and participate in the undergraduate and graduate teaching missions of the University. Minorities, women, veterans and those with disabilities are strongly encouraged to apply. The University of Kansas values candidates who have
experience working with students from diverse backgrounds and possess a strong commitment to improving access to higher education for historically under-represented minorities.

To apply online, go to:

Biochemistry:  https://employment.ku.edu/academic/10020BR

Microbial Pathogenesis - https://employment.ku.edu/academic/9958BR.

A complete online application includes the following materials: a cover letter, curriculum vitae, statement of current research achievements and future research plans, statement of teaching interests and philosophy, and the names and contact information for at least three professional references. Review of applications will begin **November 1, 2017** and will continue as long as required to identify a qualified pool. Position inquiries can be directed to Dr. Audrey Lamb (biochemistry position, lamb@ku.edu) or Dr. Scott Hefty (microbial pathogenesis position, pshefty@ku.edu).

**Postdoctoral Position Available at Sloan-Kettering Institute, New York City**

The Lai laboratory has a funded postdoctoral position available to study intragenomic conflicts across Drosophila species and their control by endogenous RNAi. In prior work, we showed that RNAi has a major role in regulating spermatogenesis, via a special class of rapidly evolving siRNA substrates termed hpRNAs. In ongoing unpublished work, we characterized the genomics of hpRNAs across the Drosophilids, which we believe unlock a map of genomic conflicts controlled by RNAi pathway. We also knocked out the RNAi pathway in a non-model fruit fly and revealed surprising male-specific phenotypes much more overt than in *D. melanogaster*, reflecting depression of emergent meiotic drive systems that do not exist in the flagship fruit fly.

We know little of the profound activities of recently-emerged selfish genes that are controlled by hpRNAs and how they affect gametogenesis, and how such factors come to be recognized and extinguished by small RNA pathways. These topics are central to understanding the biology of RNAi and mechanisms of speciation. To elucidate these questions, the ideal postdoctoral candidate will have familiarity with Drosophila genetics and genome engineering, and integrate these techniques with molecular and genome wide approaches in the context of gonadal biology. As well, this project is relevant to other interests in the group that examine the testis with respect to rapidly-evolving miRNAs and protein-coding genes, and specialized post-transcriptional regulatory pathways, that all reflect the unique gene expression environment of this tissue.

If interested, please contact laie@mskcc.org with research statement and CV.

**Postdoctoral Position Available at Plant Research Laboratory at Michigan State University**

A post-doc position is available in the Brandizzi lab at the Plant Research Laboratory at Michigan State University. The position is available immediately and it is for two years with the possibility of an extension depending on availability of funding.

The position is to work on ER stress responses in plants. The project will employ molecular and biological approaches to study the contribution of gene regulatory networks on ER stress and growth in plants with focus on maize. The applicant must have a strong background in molecular biology, gene expression analyses and genomics. Experience of working with maize is desirable but not essential. The selected candidate for the position will join a multidisciplinary team working on an NSF Plant Genome Initiative award.
Interested applicants should send curriculum vitae with a description of scientific interests, description of prior research and names of 3 referees.

For inquiries, please email Dr. Federica Brandizzi (fb@msu.edu).

**Position Available at Grand Valley State University**

**Assistant Professor of Microbiology in Biomedical Sciences.** The Biomedical Sciences department is pleased to announce it is searching for a new tenure-track faculty member to join our growing department in Fall 2018

**Qualifications and Education:** Qualified applicants will be committed to both classroom teaching and collaborative research with undergraduate and/or graduate students. The successful applicant must have a Ph.D. in microbiology, immunology, or related field. Candidates with expertise in any area of microbiology research (up to and including work with BSL-2 organisms) will be considered; we particularly encourage those with interests in immunology or virology to apply.

**Responsibilities:** Duties include a 9-contact hour teaching load per semester, scholarship and service. While the primary teaching duties for this position will be in microbiology, faculty may be asked to teach across the curriculum, particularly in an area of expertise.

**Salary:** Competitive and commensurate with qualifications. Startup funds for research are available.

**Department:** The Biomedical Sciences department has been a rapidly expanding unit at Grand Valley State University. Biomedical Sciences has approximately 1,300 undergraduate majors, 42 full time faculty members, a Master’s degree program, and offers courses to support other undergraduate majors, the university’s general education program, and select graduate programs. Along with our primary teaching and research facilities, a new science building has recently been completed to support laboratory opportunities for students and faculty, including a vivarium, aquatic facility, and microscopy suite with a confocal. For more information about our department, see [http://www.gvsu.edu/bms](http://www.gvsu.edu/bms).

**University:** Grand Valley State University is a public institution with 22,209 undergraduate and 3,251 graduate students located in Grand Rapids, Michigan. The university is committed to creating an inclusive, diverse environment for faculty and students while promoting enrichment of society through excellent teaching, active scholarship, and public service. For More information see [www.gvsu.edu](http://www.gvsu.edu). Grand Valley State University is an EOE, which includes protected veterans and individuals with disabilities. See [http://www.gvsu.edu/affirmative/](http://www.gvsu.edu/affirmative/).

**How to Apply:** A complete application must include: (1) cover letter; (2) teaching statement that addresses relevant teaching experience and philosophy; (3) research statement that addresses how undergraduates and/or graduate students will participate in your research program; (4) curriculum vita; (5) graduate transcripts (unofficial); and (6) contact information for three references. Supplemental materials that can attest to qualifications in teaching and scholarship may also be attached. Apply at [http://jobs.gvsu.edu/](http://jobs.gvsu.edu/). If you have questions about applying online or need assistance, call Human Resources at 616-331-2215. Email questions about the position to: Dr. Ian Cleary, search committee chair ([clearyia@gvsu.edu](mailto:clearyia@gvsu.edu)). The review process will begin on October 25, 2017 and will continue until the position is filled.

**Tenure Track Faculty Positions Focused on Cryo-EM at Michigan State University**

The Department of Biochemistry and Molecular Biology ([http://bmb.natsci.msu.edu/](http://bmb.natsci.msu.edu/)) at Michigan State University seeks outstanding applicants for two tenure-track positions at the Assistant/Associate level
with expertise in cryo-electron microscopy (Cryo-EM) and the ability to develop a vigorous, externally funded research program that will complement existing strengths in the areas of structural, membrane protein, computational, microbial, and plant biochemistry. Michigan State University is committed to building a state-of-the-art Cryo-EM facility to support this research area. The successful candidates must hold a PhD, or equivalent, have a minimum of two years’ postdoctoral research experience, and will be expected to contribute to teaching at the undergraduate and/or graduate level.

Review of application materials will begin on December 15, 2017. Application materials should include a cover letter, curriculum vitae, statement of research accomplishments, a proposal for future research (up to five pages), a one-page teaching statement, and three letters of references. We request that letters from references are sent directly to BMB.Search@msu.edu. The application materials should be combined into a single PDF file and must be uploaded electronically at https://jobs.msu.edu for posting #XXXX. Questions regarding the position may be directed to Dr. Kristin Parent, Chair of the Search Committee (kparent@msu.edu).

Michigan State University is an affirmative action, equal-opportunity employer. The Department of Biochemistry and Molecular Biology and the University are committed to achieving excellence through diversity. The Department of Biochemistry and Molecular Biology and the University actively encourage applications from women, persons of color, veterans, and persons with disabilities. The University endeavors to facilitate employment assistance for spouses or partners of candidates for faculty positions.

Multiple Postdoctoral Positions in Computational Biology and Bioinformatics at Cold Spring Harbor Laboratory

Post-doctoral fellow positions in computational biology focusing on gene expression.
Cold Spring Harbor Laboratory invites applications for post-doctoral positions in the laboratory of Dr. Jesse Gillis and colleagues. The successful candidates will join a team at CSHL working to understand the molecular and functional basis of cellular properties, focusing on mammalian brains. This is a large-scale project involving a number of complementary positions, ranging from bioinformatics, to neuroscience, to molecular genetics. While the focus of the position is computational, all projects involve substantial collaboration with wet-lab researchers generating unique data. This interdisciplinary work offers opportunities to address important questions in computational biology and neuroscience with first access to large novel data sets from single-cell RNA-seq. The expected duration of the position is approximately 3-5 years with renewal at the end of each year.

A major conceptual focus of the project will be developing new ways of assessing large-scale data for replicable signals. This position offers substantial scope for training for candidates interested in making a leap from computer science, neuroscience or genetics to data-focused research, particularly if it has arisen informally in their previous work.

In addition to a collaborative focus within the project itself, successful applicants will enjoy a wide range of educational opportunities at Cold Spring Harbor Laboratory. Cold Spring Harbor Laboratory is a world-renowned research and educational institution with programs in cancer, neuroscience, plant biology, genomics and bioinformatics. The Laboratory is recognized internationally for its excellence in research and educational activities.

Position Requirements
This research sits at the intersection of three research areas: Computational analysis, genetics, and neuroscience. A strong candidate would have expertise in two out of the three areas and an interest in learning about the third. While a broad range of backgrounds are suitable for this position, a PhD in bioinformatics or computational biology is desirable.

A particular focus of our methodological research is replicability and meta-analysis and an interest in these areas is helpful. Experience with either Matlab or R is a plus.

Exceptional applicants without a formal computational background will also be considered, particularly if they are familiar with standard bioinformatics tools.

Please include a letter of interest outlining your research accomplishments and include the contact information of three references. Applications can be sent directly to JGillis@cshl.edu.

Cold Spring Harbor Laboratory is an Equal Opportunity Employer

Scholarships & Fellowships:

TIAA Ruth Simms Hamilton Graduate Merit Fellowship
All MSU doctoral students whose dissertation research is related to the African Diaspora are eligible to apply for this Fellowship. Such research is focused on any aspect of the communities of people descended from the voluntary or forced historic movement of African peoples to other parts of the world and who are usually connected back in some way to Africa.

For more information, please visit https://grad.msu.edu/fellowships/tiaa

Due date for an application is December 15, 2017.

American Association of University Women (AAUW) Fellowships and Grants
Apply for an AAUW fellowship or grant! Deadlines for 2018-2019 awards are fast approaching. For information on the follow fellowships and grants, please visit http://www.aauw.org/what-we-do/educational-funding-and-awards/

American Fellowships
Who may apply: Women pursuing full-time study to complete dissertations, conducting postdoctoral research full time, or preparing research for publication for at least 8 weeks.

Funding: $6,000 - $30,000

Deadline: November 15

Career Development Grants
Who may apply: Women pursuing a certificate or degree to advance their careers, change careers, or reenter the workforce and whose bachelor’s degree was received at least five years before the award period.

Funding: $2,000 - $12,000
**Deadline: December 15**

**International Fellowships**
Who may apply: Women pursuing full-time graduate or postdoctoral study in the United States who are not US citizens or permanent residents.

Funding: $18,000 - $30,000

**Deadline: December 1**

**Selected Professions Fellowships**
Who may apply: Women pursuing full-time study in a master’s or professional degree program in which women are underrepresented, including STEM, law, business, and medicine

Funding: $5,000 - $18,000

**Deadline: January 10**

**Community Action Grants**
Who may apply: Individuals, AAUW branches and states, and nonprofit organizations wanting to fund innovative programs or nondegree research projects that promote education and equity for women and girls

**Deadline: January 15**

**Postdoctoral Fellowship for Academic Diversity at the University of Pennsylvania and Children’s Hospital of Philadelphia**
The Postdoctoral Fellowship for Academic Diversity Program is a competitive program whose goal is to increase the diversity of the community of scholar devoted to academic research at both the University of Pennsylvania and The Children’s Hospital of Philadelphia (CHOP). Both organizations seek to attract promising researchers and educators from different background, races, ethnic groups, and other diverse populations whose life experience, research experience and employment background will contribute significantly to their academic missions. Fellowships are available for postdoctoral training in all areas of study at either Penn or CHOP. STEM field applications are encouraged. Successful candidates will receive mentored scholarly and research training as well as courses and workshops to enhance their research success skills and prepare them for a faculty position in a major university.

**Eligibility:**
- Graduate students from Penn and other institutions who have completed, or will complete their requirements for Ph.D. by the fellowship start date
- Postdoctoral scholars from other institutions who have completed their dissertation within the last three years
- Professional applicants (M.D., D.M.D., V. M. D., J.D., etc.) within a year of completing their post-degree professional training
- Candidates must be US citizens or permanent residents
- Postdocs, residents and fellows who currently have a position at Penn or CHOP are ineligible for this program

**Awards:**
Fellows receive a stipend of $50,000 a year in year 1 with $2,000 increments in years 2 and 3, as well as annual allowances for travel ($2,000) and research ($5,000), and a one-time relocation expense of up to $5,000. The University and CHOP also provide a medical, visual, dental and life insurance benefits package.

Successful candidates will receive highly mentored scholarly and research training as well as courses and workshops to enhance their research skills and prepare them for faculty positions in a major university.

Start dates will be arranged in consultation with the faculty mentor to begin as early as July 2018.

For more information and to apply, please visit http://www.upenn.edu/research/postdocs_students/postdoctoral_fellowships_for_academic_diversity/

The application deadline is November 3rd.

Ford Foundation Fellowships

The National Academies of Sciences, Engineering, and Medicine is accepting applications for the 2018 Ford Foundation Fellowships Programs for Achieving Excellence in College and University Teaching. Full eligibility information and online applications are available on our website.

Through its Fellowship Programs, the Ford Foundation seeks to increase the diversity of the nation's college and university faculties by increasing their ethnic and racial diversity, to maximize the educational benefits of diversity, and to increase the number of professors who can and will use diversity as a resource for enriching the education of all students.

Eligibility Requirements:
- U.S. citizens, nationals, permanent residents (holders of a Permanent Resident Card), or individuals granted deferred action status under the Deferred Action for Childhood Arrivals Program (DACA) program, and political asylees and refugees regardless of race, national origin, religion, gender, age, disability, or sexual orientation.
- Individuals planning a career in teaching and research at the college or university level in a research-based field of science, social science or humanities.

Stipends:
- Predoctoral--$24,000 per year for three years
- Dissertation--$25,000 for one year
- Postdoctoral--$45,000 for one year

Awardees will have expenses paid to attend at least one Conference of Ford Fellows. Approximately 65 predoctoral, 36 dissertation, and 24 postdoctoral fellowships will be awarded.

Application Deadline Dates:
- Predoctoral: December 14, 2017 (5:00 PM EST)
- Dissertation: December 7, 2017 (5:00 PM EST)
- Postdoctoral: December 7, 2017 (5:00 PM EST)

Supplementary Materials receipt deadline for submitted applications is January 9, 2018 (5:00 PM EST)

For more information and to apply online:
Big Ten Academic Alliance Smithsonian Institution Fellowship

The application period for the Big Ten Academic Alliance Smithsonian Institution Fellowship is open until December 1.

This program provides a one-year fellowship to doctoral students to support research at Smithsonian Institution facilities. Students must have completed all coursework for their program, be admitted into doctoral candidacy, and completed all requirements except for completion of the dissertation. Fellowships carry a stipend of $32,700, which is paid by the Smithsonian Institution and the fellow’s home institution. For more information on the fellowship, please visit http://www.btaa.org/students/smithsonian-fellowship. On this site, you will find an Application Guide, Campus Contacts, and a link to the application portal housed with Smithsonian.

Questions about the program can be directed to Joseph Miller at BTAA. joseph.miller@btaa.org or www.btaa.org

Gilliam Fellowship

The Howard Hughes Medical Institute (HHMI) is pleased to announce the 2018 Hanna H. Gray Fellows Program competition. We know that the biggest challenges in science call for diverse perspectives and original thinking. Through the Hanna H. Gray Fellows Program, HHMI will recruit and retain individuals from groups underrepresented in the life sciences. The program will support early career scientists with the potential to become leaders in academic research. Through their successful careers, HHMI Hanna Gray Fellows will inspire future generations of scientists from America’s diverse talent pool. The Institute will select and support up to 15 Fellows in this competition. The competition is open to all eligible applicants, and no nomination is required.

We appreciate your help in distributing this program announcement and encouraging eligible individuals from your institution, and beyond, to apply. Applicants can establish eligibility and submit an application via the HHMI online competition site. Applications are due January 10, 2018, at 3:00 PM (Eastern Time).

HHMI announced the selection of 15 exceptional scientists as the inaugural class of HHMI Hanna Gray Fellows. For more information, see our HHMI.org program page or press release.

Program Overview

Fellows will receive funding ($80,000 annually) for up to four years of their postdoctoral training and may continue to receive funding ($270,000 annually) for up to four years during their early career years as independent faculty. The program includes opportunities for career development, including mentoring and active involvement in the HHMI scientific community.

Eligibility

- The program is open to individuals from gender, racial, ethnic, and other groups underrepresented in the life sciences at the career stages targeted by this program, including those individuals from disadvantaged backgrounds.
- The program is open to basic science researchers and physician-scientists in the biomedical and life science disciplines.
- The program is open to applicants of any citizenship or nationality who:
  - have a PhD and/or MD or equivalent conferred by an institution in the U.S. (including Puerto Rico) by the start of the grant term.
  - have been accepted to join a laboratory as a postdoctoral researcher at a research institution located in the U.S. (including Puerto Rico) at the time of the application due date.
- The postdoctoral training mentor must hold a tenured or tenure-track position (or equivalent) at an institution in the U.S. (including Puerto Rico).
- Applicants can have no more than 12 months of postdoctoral research experience at the time of the application due date.

Selection of Fellows
The review process will assess the applicant’s potential for a career as an independent academic researcher and the quality of the training environment with the selected mentor. The selection of finalists will be made by the end of September 2018. Awards may begin as early as September 18, 2018, but no later than January 15, 2019.

Additional Information
Additional information including a full Program Announcement is available at www.hhmi.org/hanna-h-gray-fellows. For questions, contact program staff at fellows@hhmi.org.