**BIOMOLECULAR SCIENCE WEEKLY**

May 1 – May 5, 2017

*Save The Date:*

Does Allergic Disease Begin in Utero? Development Programming, Epigenetics and Allergy; May 8, 2017
Presented by Professor John Holloway, BSc (Hons), PhD, RGCert, Professor of Allergy and Respiratory Genetics, Associate Dean for Research, University of Southampton

Asthma, Eczema and Allergies; Over the Life Course and Across Three Generations; May 9, 2017
Presented by Professor Karmaus and Professor Arshad.

1. Wilfried Karmaus, MD, Dr.med., MPH, Professor, Division of Epidemiology, Biostatistics, and Environmental Health, University of Memphis
2. Hasan Arshad, MBBS, DM, FRCP, Professor of Allergy and Clinical Immunology, University of Southampton, Director of the David Hide Asthma and Allergy Research Centre, Isle of Wight

The American Society of Biochemistry and Molecular Biology (ASBMB) presents a special symposium: “Evolution and Core Processes in Gene Expression”; July 13-16, 2017
Organizers: David Arnosti (Michigan State University), Justin Fay (Washington University), Julia Zeitlinger (Stowers Institute). Learn more at: [https://www.asbmb.org/SpecialSymposia/2017/geneexpression/](https://www.asbmb.org/SpecialSymposia/2017/geneexpression/)

*Origins of Cancer* is a one-day symposium that brings together students, scientists and medical professionals to discuss the latest breakthroughs in cancer research. The theme for 2017 is *Tackling Provocative Questions*, which will highlight recent progress from the National Cancer Institute’s Provocative Questions Initiative. To register go to [http://www.event.com/events/origins-of-cancer-symposium-tackling-provocative-questions/event-summary-b25684ec7c7a4ba48ffba79fb5fce6f.aspx](http://www.event.com/events/origins-of-cancer-symposium-tackling-provocative-questions/event-summary-b25684ec7c7a4ba48ffba79fb5fce6f.aspx).

**Calendar:**

Monday, May 1<sup>st</sup>- Wednesday, May 3rd:

No Events Listed
Thursday, May 4th:
Physiology Seminar: Dr. Shane Perrine, Wayne State University; "Neurobiological and Behavioral Studies at the Intersection of Drug Addiction and Posttraumatic Stress Disorder"; 4:00PM; 1425 BPS

Friday, May 5th:
No Events Listed

Announcements:

Welcoming Our New BMS Assistant Director
Please welcome Claire Vieille, our new BMS Assistant Director. She will be replacing Suzanne Thiem, who has been our Assistant Director since the beginning of the BMS. Suzanne was instrumental in our recruiting, orientation, and everything in between. She also spearheaded our diversity recruiting efforts. Thank you Suzanne - we will miss her hard work and cheerful smile.

GII Maize Genomics Position Interview Seminars
May 1 and 2, 10:00AM
There will be four candidates interviewed for the GII Maize Genomics position in PSM. Seminars will be on the first day of the interview at 10:00 am in A271 PSSB. At 11:00am there will be a future directions talks in the same room. The candidates are:

Dr. Shengqian Zhong – May 1-2

Genetics Mini-Symposium
May 10, 8:30am – 5:30pm
The 2017 Genetics symposium theme is “Impact and Applications of Genome Editing Technologies”. There is no charge for this event and lunch will be provided. Program and registration information is available at https://genetics.natsci.msu.edu/events/symposia/2017-impact-and-applications-of-genome-editing-technologies/.

Frontiers in Reproductive Epigenetics Symposium
“Epigenetics of Maternal and Paternal Effects”; May 12, 2017; Grand Rapids, MI
The inaugural Frontiers in Reproductive Epigenetics Symposium will focus on parental effects, when the genotype of the mother or father rather than the genotype of the individual determines phenotype. These phenomena are now investigated extensively at the molecular level and the results often point to specific epigenetic modifiers affecting the egg or sperm. Epigenetic disturbances in the gametes can have long-lasting effects on the offspring and even on future generations. Register by going to: www.frontiersinreproepi.org

Course Announcement:

Computational Systems Biology and Dose Response Modeling Short Course
PHM 980, Section 301, 1 credit
Date: May 15-17, 2017 (2.5 days)

Location: Food Safety and Toxicology Building, Room 162
Course Description: This short course will cover dynamical systems modeling techniques for quantitative investigation of how biological systems respond to perturbations at the cellular level. The course will consist of lectures and hands-on computer simulation exercises on:

- Common network motifs in signal transduction and gene regulatory networks that underlie systems-level cellular behaviors including homeostasis, adaption, threshold response, binary and irreversible cell fate decisions, and oscillations.
- How molecular circuits compromising genes and proteins give rise to various dynamic and dose-response behaviors. Examples include cellular stress response, cell differentiation, and cell cycle and checkpoint control, etc.
- Use of these simulation techniques to develop computational models for understanding and predicting nonlinear dose response behaviors of environmental toxicants and drugs.

Students will be required to bring a PC laptop computer (Mac is not recommended for compatibility issues in some simulation exercises) each day to the course to run computer simulation exercises.

Please contact Dr. Qiang Zhang (qiang.zhang@emory.edu) if you have any course specific questions. Please contact Steve Stofflet, Stephen.stofflet@hc.msu.edu, in the department of Pharmacology and Toxicology for course registration/override. NOTE: While the course is offered during the summer semester, you will have to actually enroll in it for fall semester 2017.

2017 Meeting of the American Society of Pharmacology and Experimental Therapeutics

It is our great pleasure to invite you to participate in the 2017 meeting of the Great Lakes Chapter of the American Society of Pharmacology and Experimental Therapeutics (GLC ASPET). This meeting will be held on Friday, June 23, 2017 at the University of Illinois in Chicago, Moss Auditorium, College of Medicine Research Building, 909S. Wolcott Ave., Chicago.

This will be our 30th Annual GLC ASPET meeting. Our annual meeting is focused on timely topics in pharmacology and drug discovery, and is designed to promote interactions and build bridges between scientists in the Midwest (e.g., Illinois, Indiana, Iowa, Michigan, Minnesota, Ohio and Wisconsin). This year’s theme is “Advances in Pharmacoimmunology”.

A major objective of the meeting is to serve as a platform for productive interactions between academic and industrial researchers, as well as suppliers of scientific equipment. In addition to a poster session (that covers all aspects of pharmacology and life science and that results in awards to the best posters from undergraduate and graduate students, as well as post-doctoral fellows), our scientific sessions will be interspersed with discussions relevant to students interested in a career in pharmacology and drug discovery.

Abstract deadline is June 9, 2017. Learn more about the event at: https://www.aspet.org/glc/.

Course Announcement:

July 17-21, 2017

We are offering an exciting new hands on Laboratory Course for Flow Cytometry this summer!
BLD 854: Advanced Flow Cytometry Laboratory is offered July 17-21, 2017 on the beautiful Michigan State University Campus. This class features hands on experience in quality assurance exercises, multicolor assay design, multiplex bead assay, data analysis, and sorting. Students will use various flow cytometers on the MSU Campus and will access analysis software in our computer laboratory. This course provides first-hand experience in advanced flow cytometry concepts and practices and is a companion to the online lecture BLD 853: Advanced Flow Cytometry. BLD 853 and BLD 854 contain concepts and exercises to clinicians and researchers that are critical to successful flow cytometry. Students completing both courses (BLD 853 and BLD 854) are eligible for an Advanced Flow Cytometry Certificate. BLD 853 has assisted some students with passing the ICCE exam.

For more information, contact Dr. Sue McQuinston (mcquist9@msu.edu) or Aimee Stewart (stewa120@msu.edu).

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Workshops:

Introductory Workshop Series in R Programming for Data Analysis
May 16, 2017

5:30PM-7:00PM, 110 Chittenden Hall

This series is for any researcher with an interest in learning how to program in R – it’s perfect for students interested in building their coding skills or for researchers looking for efficient and reproducible ways to analyze data. No coding experience required!

Presented by Sean Nguyen, CMB PhD candidate
Sean is a BEST trainee and a fourth year PhD candidate with a strong interest in data science. You can find his blog about coding in R at https://nguyens7.github.io/

1. Introduction to R
2. Learn about R and how to easily import and visualize data
3. Date: Th, May 4, 2017 Time: 5:30-7 Place: 110 Chittenden Hall Snacks? Yes!
4. Importing and cleaning up data with tidyr and dplyr
5. Learn to import, explore and clean up raw data
6. Date: Tu, May 9, 2017 Time: 5:30-7 Place: 110 Chittenden Hall Snacks? Yes!
7. Graphing with ggplot2
8. Learn to visualize data with ggplot2
10. Data analysis, reproducible research, R notebooks and Github
11. Learn to perform routine statistical analyses, create dynamic reproducible documents and concepts of version control

Required Materials: Laptop computer running Windows, MacOS or Linux with wireless internet connectivity.

Alan Alda Center for Communicating Science Workshops
On May 15 & 16, presenters from the renowned Alan Alda Center for Communicating Science at Stony Brook will be on campus to give three free workshops to MSU faculty, staff, and graduate students. See http://www.centerforcommunicatingscience.org/ for more.

On May 15
Distilling Your Message: Interactive Plenary will take place from 12:00-2:00 at the Kellogg Center more details and registration at: https://engage.msu.edu/learn/learning/distilling-your-message-interactive-plenary.

On May 16
Improv for Scientists to Improve Public Communication Skills will be offered two times that day (only sign up for one session)
• Improv 1: 8:30-12:00, Kellogg Center
• Improv 2: 1:00-4:30, Kellogg Center

More details and registration at: https://engage.msu.edu/learn/learning/improvisation -for-scientists-to-strengthen-public-communication-skills.

The Alan Alda Center for Communicating Science is highly regarded national leader in science communication with the public. It's an honor for them to visit our campus.

University Graduate Certification in College Teaching Institute
May 11-12, 2017

The Graduate School invites you to an extensive program that will help fulfill the workshop portion of the requirements for the MSU CCTP (Certification in College Teaching Program). Over the course of two days, featured speakers will focus on teaching with technology, assessing student learning outcomes, creating effective learning environments through writing, and developing teaching portfolios for
different kinds of academic institutions. Through a combination of interactive group sessions and focused breakouts, you will gain skills in core competency areas of the Certification, plan a mentored teaching project, and develop the template for your final portfolio. Participants must attend both full days of the Institute.

Registration is required. For more information and to register, go to: https://grad.msu.edu/events/certification-college-teaching-day-1 to register.

The Certification is designed for doctoral students and postdocs preparing to become faculty members in a college or university. The CCTP culminates in an e-portfolio that will help participants prepare for academic job interviews and plan for their professional development as early career faculty. Doctoral students who successfully complete all requirements will receive a designation of their Certification on their MSU transcript; postdocs receive a letter from the provost recognizing their completion of the CCTP. For more details about the certificate program, go to: https://grad.msu.edu/CCTP

Business for Students

With supplemental funding from NSF, BEACON is co-sponsoring a week-long "Business for Scientists" course offered at the University of Idaho, May 22-26. This course is designed to help junior faculty, postdocs, and scientific staff run their research program like a successful business (see the flyer for additional details). The course is free to attend, and there is travel and accommodation support available from BEACON. You must RSVP by emailing ibest@uidaho.edu by May 5. If you would like to apply for BEACON travel funds to this course, please contact Danielle J. Whittaker, djwhitta@msu.edu.

Synchronization in Communication Systems

May 30 – June 4, 2017

From the precise simultaneous firing of pacemaker cells in a heart, to flocking birds, to the synchronized firing of neurons among the audience of a movie, examples of synchrony in nature abound. Research on synchrony dates back to 17th century Dutch scientist Christian Huygen, who was puzzled by how pendulum clocks that were once in discord tended to swing in harmony when placed adjacent to each other. Since Huygen discovered that barely detectable shared motion in floorboards led pendulums to synchronize, the pervasiveness of synchrony in the physical and social worlds has become apparent. Synchrony has been used to explain how people's limbs become entrained during dance or military drills, how strangers develop rapport and cooperation, and how movements with a virtual character can reduce outgroup prejudice.

The third annual summer school held at Michigan State University will address the role of synchrony as a fundamental construct for communication science by bringing together scholars from the fields of communication, computer science, neuroscience, complex systems, and cognitive and social psychology. Throughout its five days, the summer school will provide advanced training and mentoring for young researchers at the hands of some of the biggest names in synchrony research. Senior and junior scholars, postdocs, and graduate students are all encouraged to attend!

Please call for participation for more details on how to register, and visit our website at www.cas.msu.edu/sync . Please email us with any questions you may have (syncMSU@gmail.com ). We can also be found on Twitter (@syncMSU) and Facebook (Sync @ MSU group).
13th Summer School on Toxic Compounds in the Environment 2017

RECETOX Research Infrastructure, Regional POPs Centre for Central and Eastern Europe and Research Centre for Toxic Compounds in the Environment (RECETOX), Masaryk University would like to extend to you an invitation to attend the international 13th Summer School on Toxic Compounds in the Environment 2017, which will commence from June 26th to 30th 2017 at RECETOX, Masaryk University, Brno, Czech Republic. For more information, please visit: http://www.recetox.muni.cz/

Registration is open here: https://is.muni.cz/obchod/fakulta/sci/recetox/?lang=en. Do not hesitate with registration, summer school is limited to 40 participants.

Job Opportunities

Open Positions, Michigan Department of Health and Human Services, Division of Environmental Health

Considering a career in environmental public health? The Michigan Department of Health and Human Services, Division of Environmental Health has posted three positions: Health Assessor, Toxicologist, and Environmental Health Scientist. The persons in these positions would be responsible for evaluating environmental data, determining whether a public health hazard exists, and documenting the findings in Health Consolations, Public Health Assessments or other reports. The positions are also responsible for determining whether methods to reduce exposure to chemicals should be recommended. To learn more about the positions, see https://www.mphi.ord/careers/. To apply, scroll further down on the website for instructions.

Postdoctoral Position with Richard Schwartz in MMG

I have a postdoctoral position available. This position is funded for up to 3 years and requires a minimum 2-year commitment by the candidate. We are investigating the promotional effects of high fat diet and its interaction with the endocrine disruptor benzophenone-3/BP-3/oxybenzone, the active ingredient in most sunscreens and many personal care products. These studies utilize various genetic mammary cancer mouse models. It would be beneficial for the candidate to have had prior experience in mammary gland biology, cancer biology, and/or cancer immunology. Experience with animal studies would be an asset but not necessary. Our MSU research project is one of six national programs currently funded by the NIEHS/NCI Breast Cancer and the Environment Research Program. Salary will be commensurate with level of experience. Please contact Richard Schwartz, schwart9@msu.edu, if interested.

Lab Position

A position is open for a Genetics grad student to work on a population genomics forest pathology project. For more information, please contact Monique Sakalidis at sakalidi@msu.edu.

Faculty – Assistant or Associate Professor, Tenure Track, Columbia University

Field of Specialization: Toxicology

Proposed Starting Date: July 1, 2017

Position Description: The Department of Environmental Health Sciences of Columbia University’s Mailman School of Public Health seeks applicants for 1-2 tenure track faculty positions at the level of
Assistant or Associate Professor, beginning July 1, 2017. We seek scholars with a doctorate degree in Toxicology and are particularly, but not exclusively, interested in expertise in neurotoxicology. We are also interested in scientists working on the microbiome as it relates to environmentally-induced diseases. The successful candidate(s) will work and collaborate with investigators across the Columbia University Medical Center to develop a comprehensive research program in the areas referenced above, and she/he will play a substantial role in our MS, MPH and PhD educational programs as a teacher and mentor.

Minimum Degree Required: Doctoral degree, terminal professional

Minimum Qualifications: Doctorate degree in toxicology, neurotoxicology, environmental health sciences, or other related discipline (PhD, ScD, DrPH or MD), with substantial post-doctoral training and experience in mechanisms of environmental disease, or cellular, molecular or in vivo models of human disease. A strong publication record, original and creative long-term research vision and demonstrated excellence in teaching and mentoring are required. A record of obtaining peer-reviewed funding for independent research is essential, as is a demonstrated success in working with multidisciplinary and multi-institutional teams.

Applicants should submit a cover letter, CV, personal research plan, statement of teaching philosophy, and list of references to the attention of Dr. Joseph Graziano, Search Committee Chair, Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, 722 West 168th Street New York, NY 10032 using the following link https://academicjobs.columbia.edu/applicants

Sr Research Manager/Analyst, American Beverage Association

Job Description:

1. Monitor the scientific landscape (both tox and nutrition) relative to both the safety of the ingredients our beverage companies use and the efficacy of our products (emerging issues);
2. Serve as VP’s surrogate at conferences;
3. Draft regular outlook(updates summarizing findings from key “quality” studies (and studies presented at conferences) and highlight significance;
4. Help create a user-friendly electronic database to house the available literature, registered studies (e.g., ClinicalTrials.gov) and other sources of information that would help quickly identify relevant publications as basis for science-based positions.

Importantly, this position will require significant review of research articles that reflect toxicological concepts, epidemiology, nutrition, etc. coupled with distillation of key points. Being computer/software savvy to help create and maintain a searchable electronic filing system would be a huge plus.

Requirement - Minimum M.S. in relevant field

Contact:
Maia M. Jack, Ph.D.
Vice President, Science and Regulatory Affairs
American Beverage Association
mjack@ameribev.org
MSU Early Learning Institute

The MSU Early Learning Institute, an early intervention program for children with autism, is currently hiring Behavior Technicians to deliver evidence-based interventions to children. A bachelor’s degree and experience with children with autism or related disorders is preferred, though we would consider outstanding applicants with varied combinations of education and experience. We have a number of MSU graduates currently in the position, most of whom are spending a year or two with us before going on to graduate programs in similar fields.

**Job Summary:** Administer applied behavior analysis (ABA) programming to children with autism spectrum disorders (ASD) under supervision of a Board Certified Behavior Analyst (BCBA). Work with interdisciplinary team of professionals supporting children with ASD in inclusive settings.

**Description:**
- Between 30 and 40 hours per week
- Work in an exciting environment with children ages 3-5, with a diagnosis of ASD
- Serve as a behavioral therapist in one-to-one, small group, and inclusive settings
- Administer therapeutic behavioral supports in inclusive setting
- Support children in all areas of development
- Implement all teaching and behavior plans developed by the BCBA
- Collect and maintain data during all sessions
- Maintain confidentiality of all children, families, and staff
- Participate as an active team member, attending collaboration meetings, in-service trainings, and workshops

**Qualifications:**
- B.S. or B.A. degree in Behavior Analysis, Psychology, Child Development, Education, or Special Education preferred
- May need to lift a minimum of 50 pounds
- Computer skills related to word documents, spreadsheet development, and data management

**Desired:**
- Experience with children with ASD or related disorders
- Knowledge and implementation of Applied Behavior Analysis (ABA)
- Demonstrated ability to work in a fast paced, flexible environment
- Demonstrated ability to work in a collaborative setting
- Verbal and written communication skills

**Benefits:**
- Competitive pay
- Supervision of fieldwork required for Board Certified Behavior Analyst or Associate Behavior Analyst
- Extensive training in applied behavior analysis (ABA)
- Opportunity to support and learn about research studies occurring at the Institute

**Location:**
Locations in East Lansing and Lansing
To Apply:
Send your resume and cover letter to Dr. Kate LaLonde, lalond18@msu.edu

Postdoctoral Position in Computational Biology and Genetics
A three-year fully-funded post-doctoral research position in computational biology is available, working with leaders in the fields of molecular genetics, psychiatry, neuroscience and philosophy of science. The successful candidate will have outstanding skills in bioinformatics and statistics and a driving curiosity about how genes affect behavior and other complex traits. The position may be held with Dr. Mark Reimers at Michigan State University in East Lansing, or with Dr. Kenneth Kendler at Virginia Commonwealth University in Richmond.

The project aims to address a fundamental question in the genetics of complex traits and diseases: to what extent do genetic variants related to a trait point to a distinct molecular mechanism for that trait? We will specifically compare the genetics of a variety of behavioral traits and psychiatric disorders to the genetics of well-understood processes like growth, and to the genetics of other well-studied complex traits and diseases.

We will have access to many of the largest GWAS data sets compiled to date, and we will integrate these GWAS data with several kinds of genomic data: chromatin, 17-primate conservation, and population history, in order to identify lists of the most likely candidate SNPs and genes. We will then map genes to the rapidly expanding protein-interaction and cell signaling databases in order to identify interactions among the proteins coded by these genes. Then we will develop metrics to quantify the molecular coherence of various traits: that is, the extent to which the different genes implicated in each trait interact directly with each other; this metric will be analogous to network connectivity, although edges may have different strengths or types. Much of this project will depend on integrating data which comes with considerable uncertainty, and we plan to use a Bayesian approach.

This unique integrative project will require a comprehensive engagement with a variety of GWAS data, and draw on a large swathe of modern computational molecular biology; we expect it to yield significant insight into how common genetic variation may influence many complex human traits, and therefore to high-profile publications. This position is funded by a grant from the Templeton Foundation.

Application Process:
Interested applicants should send applications to Dr. Mark Reimers (reimersm@msu.edu), or to Dr. Kenneth Kendler, (kenneth.kendler@vcuhealth.org), with subject heading ‘Templeton post-doc application’. All submitted applications must include the following documents: letter of interest, summary of research interest and future plans, three references and a CV. Only electronic applications/documents will be accepted. Administrative questions should be directed to Shari Stockmeyer at stockmey@msu.edu, or Linda Mikell, at linda.mikell@vcuhealth.org.

MSU and VCU are Equal Opportunity/Affirmative Action employers. Women, minorities and persons with disabilities are encouraged to apply.

Nestle Nutrition in Fremont, MI is a Nestle product development center for Baby Meals and Drinks. The opportunity has arisen for a Microbiology Lab Intern to join our team!

POSITION SUMMARY: The Microbiology Lab Intern will conduct laboratory project work and various project related tasks under the supervision of scientists in the Analytical Services and Food Safety.
Summer and Fall Internship (July 2017 to Dec. 2017); Full-time 40 hrs/week with some overtime

**RESPONSIBILITIES**: Will perform Microbiology research in an area relevant to microbiological quality and safety of Baby Meals & Drinks products. Will perform bench scale experiments related to assigned project; May perform other lab activities related to microbiological analysis or laboratory operations; Will present periodic project updates to project team and a final project presentation; Will conduct instrument maintenance, calibration and general cleaning of work area; Will comply with requirement of Nestle Good Laboratory Practice on record keeping, documentation and safety.

**MINIMUM REQUIREMENTS**: Working towards a MS or PhD Degree in Microbiology, Food Microbiology, or related science major.

**EXPERIENCE**: Experience in a Microbiology laboratory and analytical setting preferred; Experience of working with bacterial spores is highly desired.

**SKILLS**: Good skills on microbial analysis, aseptic operation, method development, problem-solving and critical thinking; Ability to follow direction and to prioritize; Knowledgeable and skilled on Microsoft Word, Power Point, Excel and basic statistics.

The Nestle companies are equal opportunity and affirmative action employers and are looking for diversity in candidates for employment: Minority/Female/Disabled/Protected Veteran

In order to be considered, please apply directly to [www.nestlejobs.com](http://www.nestlejobs.com)  The Nestle companies are equal opportunity and affirmative action employers and are looking for diversity in candidates for employment: Minority/Female/Disabled/Protected Veteran

**Post-Doctoral Associate-North Carolina State University**

Post-Doctoral Associate position immediately available to join a collaborative research project between the Beisel lab at North Carolina State University and Dr. Evan Braswell, USDA.

**Position Description**

Our group invites applications for a newly-created post-doctoral researcher position to be located in McAllen, Texas USA. The successful candidate will have demonstrated basic microbiological techniques through previous laboratory work in the areas of microbial genetics, genetic engineering, or similar field. Applicants should also have a broad background in plant physiology and plant genetic manipulation theory and practice. Previous work with bacteriophage and/or fastidious bacteria is a welcomed bonus. The post-doc is expected to actively participate in project planning within the larger framework of this collaboration between NCSU and the USDA.

**Responsibilities**

- Bacterial strain maintenance
- Phage particle production
- Basic molecular techniques: PCR, restriction digests, etc...
- Greenhouse plant and experimental support
- Data collection and experimental design
- Plant hormone manipulation

**Contact**
Interested applicants should directly contact Dr. Braswell at: Evan.Braswell@aphis.usda.gov. Please include a current CV, cover letter, and two professional references.

Curricular Design Support Graduate Student (TE)
Michigan State University’s College of Veterinary Medicine is seeking a 50% time graduate assistant (Teaching Exclusion) for Summer and Fall Semester 2017 to provide support in development, course management and grading for VM 513 Ethical and Animal Welfare Issues in the Veterinary Profession. The graduate assistant will report to Dr. Christopher Gray to support the design of the course and assist with grading and course management.

Qualifications: A bachelor’s degree in education, education technology, education psychology, or related fields; one year of related and progressively more responsible or expansive work experience in Learning Management Systems (D2L preferred).

Current enrollment in a Masters or Doctoral degree program in related fields; excellent communication skills; ability to work well in a team environment. Demonstrated ability for excellent time management.

Desirable skills include experience in ethics based discussions, small group learning, internet conferencing tools.

This is a 50%-time position for 2 semesters (Summer and Fall 2017). Stipend support will be in accordance with MSU guidelines. Tuition and health care support is included.

Please submit a cover letter, curriculum vitae, and the names of three references to: Kaye Boucher (boucher3@cvm.msu.edu). Further questions regarding the position can be directed to Julie Funk (funkj@cvm.msu.edu). Review of applications will begin immediately and continue until filled. Anticipated start is Summer Semester 2017.

Toxicologist - Senior Scientist, Amway
Reporting to the Manager of Product Safety, Global Technical Service, this Toxicologist will be responsible for leading product safety and risk assessments to support the development of new beauty, personal care and home products, along with ongoing surveillance of existing products sold globally. This position will lead the safety initiatives for our top brands, offering guidance to enable new product development and promote stewardship in support of our global consumers. The individual will manage the design, monitoring, and interpretation of in vitro and clinical safety studies conducted under Good Clinical Practices (GCP), lead the evaluation of ingredients and formulations for safety purposes, and communicate the recommendations to cross functional teams. This individual will also provide direction on appropriate ingredients, dosages, formulation and processes that will meet regulatory requirements, for safety and quality goals.

The strong professional will have the following academic credentials:

- PhD with 3 - 5 years industry experience in Toxicology, Pharmacy, Medicine or related discipline.
- Board certified toxicologist desired.
Amway's exceptional benefits package includes: Medical, dental, prescription and vision insurance; 401(K) participation; Profit Sharing; Bonus Eligibility; Fitness Center; product discounts. Visit our website to apply: www.amway.jobs.

Postdoctoral Position - The Dow Chemical Company

The Toxicology and Environmental Research and Consulting (TERC) group of The Dow Chemical Company (Midland, MI) is looking for a postdoctoral candidate with experience and training in molecular biology, toxicology, bioinformatics or a related emphasis. The postdoctoral candidate will work closely with TERC scientists and study directors in developing and/or applying state-of-the-art experimental approaches for characterizing toxicity and discerning mode of action. This unique position will present the right candidate with an opportunity to grow and excel in the exciting field of predictive toxicology.

This is a laboratory-based position and the successful candidate is expected to be actively involved in research projects in evaluating bioactivity of compounds using in vitro and Omics approaches and to apply a margin of exposure based method for safety and characterization of chemicals. Activities include experimental design, study conduct, interpretation of results, and evaluation of assay performance. The candidate is expected to present research findings at internal and external workshops/meetings and publish in prestigious peer-reviewed journals. The postdoctoral position at Dow Chemical is for one-year and the contract is renewable for up to two years.

Qualifications

- Ph.D. in toxicology (or related field) with training in molecular biology bioinformatics is required
- Experience applying data mining and machine learning algorithms is preferred
- Strong ability to integrate, analyze and interpret results
- Works well independently and within a multidisciplinary team setting
- Excellent communication skills, both oral and written
- Strong work ethic and attention detail

For additional details or to apply, contact Dr. Raja Settivari at: RSSettivari@dow.com

Scholarships & Fellowships:

ACT North American Graduate Fellowships

The American College of Toxicology is offering three fellowships to graduate students in approved toxicology programs in North America. Receipt of these $5,000/year fellowships requires: 1) Successful acceptance into PhD Program (2-year award) or in final year of a terminal master’s program (1-year award); and 2) Presentation at ACT’s Annual Meeting of a poster summarizing a graduate project in the field of toxicology. Annual Meeting registration fees will be waived; and 3) Joining ACT as a student member. Student membership is free. (It is not a requirement to be a current member.)

To apply for a fellowship please submit your resume, a letter from the chairman of your department outlining your academic standing, a title and abstract for your poster, and a paragraph (up to 500 words) describing your career aspirations. Applications are accepted starting February 1. Application deadline is May 1. Please note this award is offered by the Resource Committee.

For more information and to apply, please visit: https://www.actox.org/aboutACT/awards.asp.