Interdisciplinary Toxicology Program
Spring 2014
Dear Colleagues,

The past year was an excellent year for ITP. Our faculty continued to publish and obtain research funding for their research, despite the continuing downturn trend in NIH funding. Our students continued to shine, and 8 students received their Ph.D. or M.S. degrees. Our students also won several UGA, regional and national awards, including several Graduate Student Travel Awards, a Provost Scholar, and several of our students progressed to Doctoral Candidacy. So far, we have already accepted 3 new students for Fall 2014.

Our Spring and Fall Retreats continue to be excellent showcases of our expertise and research strengths. ITP also continues to be involved with toxicology at the regional and national levels. For example, ITP had several student presentations at the Southeastern Society of Toxicology Meeting at Emory University in Atlanta in October, 2013, as well as a few faculty platform presentations. There were also several posters and platform presentations at the National Society of Toxicology Meeting in Phoenix Arizona in March, 2014. True to our interdisciplinary nature, research presentations were also presented at the Southeastern Neuroscience Conference, The American Pharmacist Association Meeting, the Annual North American Black Fly Association meeting, the Society of Integrative and Comparative Biology Meeting as well the International Gordon Conference on Molecular Toxicology.

As always, I was pleased to see and hear about so many UGA ITP Alumni at the above meetings, but was wondering how many I was missing. Please drop us a line if you are an Alumni. To do this you can go to www.toxicology.uga.edu/Alumni. We are always happy to hear from you and to find out about your current whereabouts and endeavor’s.

As always, I would like to thank the tireless efforts of Joanne Mauro. Finally, we are always looking to increase our Foundation Funds, which allow both faculty and students to invite and support national and internationally known Toxicologists for seminars, and support programs that enhance ITP faculty and student experiences. Donations are tax-deductible and information on how to give can be found in this newsletter and at: http://www.toxicology.uga.edu

Dr. Brian S. Cummings
Director, ITP
ITP 2013—2014 CLASS
ITP FACULTY

College of Agricultural and Environmental Sciences

Sayed Hassan, Crop & Soil Sciences
Qingguo (Jack) Huang, Crop & Soil Sciences
Raymond Noblet, Department Head, Entomology
Steve Stice, Director, Regenerative Bioscience Center
William Vencill, Crop & Soil Sciences
Roger Wyatt, Poultry Science

College of Public Health

Marsha Black, Environmental Health Science
Cham Dallas, Health and Policy Management
Travis Glenn, Environmental Health Science
Erin Lipp, Environmental Health Science
Kun Lu, Environmental Health Science
Luke Naeher, Environmental Health Science
Mary Alice Smith, Environmental Health Science
John Vena, Epidemiology & Biostatistics
Jia-Sheng Wang, Department Head, Environmental Health Science
Phillip Williams, Dean
John Yu, Environmental Health Science

College of Veterinary Medicine

Julie Coffield, Physiology & Pharmacology
Gaylen Edwards, Department Head, Physiology & Pharmacology
Rabindranath De La Fuente, Physiology & Pharmacology
Nikolay Filipov, Physiology & Pharmacology
Robert Gogal, Veterinary Biosciences & Diagnostic Imaging
Tai Guo, Veterinary Biosciences & Diagnostic Imaging
Jaroslava Halper, Pathology
Keith Harris, Department Head, Pathology
Steve Holladay, Department Head, Veterinary Biosciences & Diagnostic Imaging
Elizabeth Howerth, Pathology
S. Mark Tompkins, Infectious Diseases
Ralph Tripp, Infectious Diseases
Maria M. Viveiros, Physiology & Pharmacology
John J. Wagner, Physiology & Pharmacology
Xiaoqin Ye, Physiology & Pharmacology

FDA

Jeff Fisher, Food & Drug Administration
National Center for Toxicological Research

Franklin College of Arts and Sciences

Lisa Donovan, Dept. of Plant Biology
Anne O. Summers, Dept. of Microbiology

Odum School of Ecology

Richard Shefferson, Plant Biology
Stacey Lance, Savannah River Ecology Lab

R. C. Wilson College of Pharmacy

James Bruckner, Pharmaceutical & Biomedical Sciences
Brian Cummings, Pharmaceutical & Biomedical Sciences
Arthur Roberts, Pharmaceutical & Biomedical Sciences
Randall L. Tackett, Clinical & Administrative Pharmacy
Catherine White, Pharmaceutical and Biomedical Sciences
Jason Zastre, Pharmaceutical & Biomedical Sciences

USDA

Ronald T. Riley, Toxicology & Mycotoxin Research
Kenneth A. Voss, Toxicology & Mycotoxin Research
Nik Zitomer, Toxicology & Mycotoxin Research

Warnell School of Forestry & Natural Resources

Robert Bringolf, Warnell School of Forestry & Natural Resources
The ITP Executive Committee members are: Brian S. Cummings, Nick Filipov, Mary Alice Smith, Robert Bringolf, Jim Bruckner, Ray Noblet, Ron Riley and J.S. Wang.

The Executive Committee was dedicated this year to strengthening the curriculum of our Ph.D. and M.S. degrees. We realize we need to offer more electives for ITP students, and an acceptable way to do this is through Seminars. Committee members were tasked with identifying seminar opportunities. The most significant achievements for ITP during this past year are sponsoring seminars for national speakers to travel to the University of Georgia to speak on toxicological issues; maintaining contact with graduates; providing support for faculty teaching; and providing support for both faculty and students’ travel to regional, national and international meetings.

Our program has graduated 71 Ph.D.’s and 45 M.S. degrees since 1997. On average a Ph.D degree takes 55 months and an M.S. degree takes 32 months. Along with 7 Ph.D.’s and 1 M.S. awarded this year, we also had 3 Doctoral Candidacy awards - John Finger, EHS, (Dr. J.S. Wang Advisor); Natalie Scholpa, PBS, (Dr. Brian S. Cummings Advisor); and Joseph Iburg, Entomology, (Dr. Raymond Noblet Advisor). We had 2 students participate in the Graduate School’s Emerging Leaders Program - John Finger and Fei Zhao. One of our recent graduates, Zhoumeng Lin, received an Excellence in Research Award by a Graduate Student, presented by Associate Vice President for Research, Dr. Robert Scott. (Photo below).

Recruiting this year included the first ever “Tox Day at UGA”. This brought students from several schools to campus. The day included lunch, lab tours, campus tours and an overview of our program. We plan to continue hosting this event, with our next “Tox Day at UGA” scheduled for October 2014. Our incoming class has an average GPA of 3.78. Dr. Guo, Dr. Huang and Dr. Hassan are taking new students.

Many thanks to the Admissions committee members:

Dr. Ralph Tripp, Dr. John Wagner and Dr. Jason Zastre
for all the hard work this year!
Since the next round of elections and nominations (2014-2015 academic year) will open soon, every ITP student is encouraged to serve in the UGATOX. Your support will be a distinct honor and will make our UGATOX community more productive and supportive!

Natalie

STUDENT AWARDS

3 DOCTORAL CANDIDACY AWARDS:
Natalie Scholpa, Advisor: Brian Cummings
John Finger, Advisor: Travis Glenn
Amaranethi Manoj, Advisor: Jim Bruckner

2 EMERGING LEADERS AWARDS
John Finger, Advisor: Travis Glenn
Fei Zhao, Advisor: Xiaoqin Ye
I have been active in the fields of ecotoxicology, environmental immunotoxicology and autoimmunity research for approximately 22 years. My principal focus has been to evaluate the effects of environmental contaminants on the immune system during development and through adult life, with a heavy focus on endocrine disruptors using the murine model.

A unique area of research and clinical strength that I possess, based on my veterinary training, is my diverse present and past experience across numerous domestic and exotic animal models. Recently, my lab has been funded by the DOD to study the effects of dietary lead (Pb) exposure in a variety of avian species tracking their basic physiologic, immune, histologic and production parameters. We will begin a new DOD study this summer to evaluate the reproductive outcome of maternal dietary Pb in pigeons.

Based on my past training as a medical technologist, I learned the importance of good technique and quality control assessments. Thus an additional interest of mine is to continually evaluate new cutting edge techniques in my area of research as well as evaluate current techniques to assess their influence on the data. We have published work showing how variations in specific techniques (i.e. cell dissociation, cell culture plate storage) can generate remarkably different results. Our most exciting current work involves the effects of developmental exposure on the postnatal immune system. Recent NIH funded work conducted in my laboratory with TCDD has shown a clear correlation between the consequences of prenatal exposure to this toxicant and the adult onset of immune dysregulation manifested as an autoimmune-mediated disease. In essence, we have shown that developmental exposure to a potent endocrine disruptor (dioxin) can result in a Lupus-like syndrome in a non-autoimmune-prone strain. Further, there is a clear sex or gender predilection in this autoimmune disease similar to humans. We are currently exploring the T cell and B cell pathways that affect immune tolerance.

The overall objective of Dr. Yu’s laboratory research is to apply our evolving molecular biomedical and computational technologies to explore the mechanisms by which environmental factors interact with and influence critical biological processes, with emphasis on the molecular mechanism, biomarkers discovery and susceptibility, including gene-environment interactions. There are three research projects that are currently ongoing in my laboratory. The first project is to develop in vitro Alternative Model for spermatogenesis. Risk assessment for the reproductive and developmental toxicity is particularly challenging because the reproductive and developmental process is highly-structured micro-environments, involving interactions between multiple organs/tissues at different time points and life stages. We have been developing an in vitro engineered three-dimensional “Mini-testis”, which could mimic the in vivo spermatogenesis. This project is currently under the support of CDC NIOSH. The second project is developing a novel computational tool for risk assessment. Advances in computer sciences with equally significant developments in molecular biology and chemistry are providing toxicology with a powerful new toolbox. This toolbox of computational models promise to increase the efficiency and effectiveness by which the hazards and risks of environmental chemicals are determined. We are developing and applying high-throughput, high-content assays to develop a systems biology approach such as GO-Quant to understand the mode of action of adverse effects by exposure to environmental chemicals. The third focus of research is the occupational safety and health of workers with emerging chemicals. Occupational health and safety (OHS) of workers has been one of my research topics for years, especially exposure to new ozone depleting alternatives and nanomaterials. The emerging of new techniques always brings us new opportunities for a better life, but it also brings challenges into the OHS for the workers and their community. 1-Bromopropane (1-BP) is a halogenated alkane, introduced into the workplace as an ozone depleting alternative solvent (ODA) after the discovery of the reproductive and hematopoietic toxicities of 2-bromopropane in workers. The potential for human exposure to 1-BP and the adverse effects associated with potential occupational exposure to high levels of 1-BP have increased the need to understand the potential mechanism of these adverse effects in rats, mice as a means of understanding human risk in workers. We are currently developing a physiologically-based pharmacokinetic modeling (PBPK) to conduct an integrated quantitative risk assessment for 1-BP.
STUDENT RESEARCH

REGIONAL

Southeastern Society of Toxicology, Athens, GA
Rong Li  Effects of post-weaning genistein dietary exposure on puberty in C57BL/6 mice.  Advisor: Xiaoqin Ye
Zhoumeng Lin  Gestational and lactational exposure to atrazine via the drinking water causes specific behavioral deficits and selectively alters monoaminergic systems in C57BL/6 mouse dams, juvenile and adult offspring.  Advisor: Nikolay Filipov
Palak Patel  Oncologic/toxicity outcomes associated with active surveillance in low-risk localized prostate cancer.  Advisor: Randall Tackett  Third Place Poster
Natalie Scholpa  Epigenetic Changes in p21 Expression in Renal Cells after Exposure to Bromate.  Advisor: Brian S. Cummings Second Place Poster
Fei Zhao  Multigenerational exposure to dietary zearalenone affected puberty and reproduction in mice.  Advisor: Xiaoqin Ye

Southeast Partners in Amphibian and Reptile Conservation, Jamestown, KY
John Finger  Effects of contaminants on American alligators (Alligator mississippiensis) at the individual and population level: thesis prospectus.  Advisor: Travis Glenn

Southeast Neuroscience Conference, Augusta, GA

NATIONAL

American Pharmacist Association Meeting, Orlando, FL
Palak Patel  Average annual cost of prostate cancer & factors predicting the cost.  Advisor: Randall Tackett

Bioremediation and Sustainable Environmental Technologies 2013, Jacksonville, FL
Lisa Luo  Transformation of Perfluorinated Compounds during Enzyme Catalyzed Oxidative Humification reactions.  Advisor: Qingguo Huang


Evolution 2013, Snowbird, UT
Eric Goolsby  Evolution of metal hyperaccumulation in vascular plants.  Advisor: Richard Shefferson

Society of Integrative and Comparative Biology (SICB). Austin, TX
John Finger  Effects of contaminants on American alligators (Alligator mississippiensis) at the individual and population level: thesis prospectus.  Advisor: Travis Glenn

Society of Neuroscience Conference, San Diego, CA
M. Mathilakath Keralapurath  Stress or Cocaine-induced Metaplasticity if Long-term Potentiation in the Ventral Hippocampus of Rats.  Advisor: John Wagner

Joe Iburg  The Influence of Selected Materials on Simulium vittatum Feeding Behaivor.  Advisor: Raymond Noblet

Society of Toxicology 53rd Annual Meeting, Phoenix, AZ
Manoj Amaraneni  Tissue to Blood Partition Coefficients for Deltamethrin (Dlm), Cispermethrin (Cis) and Trans-Permethrin in Adult Male Sprague-Dawley Rats and 21-Day Old Pups.  Advisor: Jim Bruckner
Chen Chen  Toxicokinetics of Deltamethrin (DLM) in Adult Male Sprague-Dawley Rats.  Advisor: Jim Bruckner
Minsu Kang  Aflatoxin Exposure Associates with Abnormal Liver Function and Infections with HIV and Tuberculosis in Ugandan.  Advisor: J.S Wang
NATIONAL (cont.)

Society of Toxicology 53rd Annual Meeting, Phoenix, AZ

Natalie Scholpa  Epigenetic Changes in p21 Expression in Renal Cells after Exposure to Bromate. 
**Advisor: Brian S. Cummings**

Rachel R. Worley  Physiologically-Based Pharmacokinetic Modeling of Human PFOA Exposure Predicts Measured PFOA-Serum Concentrations from Consumption of PFOA-Contaminated Drinking Water. **Advisor: Jeff Fisher**

Xian Wu  Quantification of neuron maturation and neurite outgrowth in vitro using human neural progenitor cells. **Advisor: Steve Stice**


Yan Wang  Identification of Methylated and Microbial Metabolites of Green Tea Polyphenols in Humans. **Advisor: J.S Wang**

INTERNATIONAL

4TH Intl. Conference on Alternatives for Developmental Neurotoxicity Testing (DNT), Philadelphia, PA

Xian Wu  Toxicants Differentially Effect Human Neuron Maturation, Outgrowth and Metabolome. **Advisor: Steve Stice**

Gordon Research Conference, Andover, NH

Rong Li  Effects of Post-weaning Genistein Exposure in Uterine Development and Spermatogenesis. **Advisor: Xiaqin Ye**

Fei Zhao  Multigenerational exposure to dietary zearalenone affected puberty and reproduction in mice. **Advisor: Xiaqin Ye**

Natalie Scholpa  Nephrotoxic Effects of Epigenetic Inhibitors Used for Cancer Treatment. Presented at the Biannual Cellular and Molecular Mechanisms of Toxicity. **Advisor: Brian S. Cummings**

Proceedings of the 22nd Working meeting of the IUCN-SSC Crocodile Specialist Group, Negombo, Sri Lanka

John Finger  Towards developing animal welfare standards for saltwater crocodiles in Northern Australia. **Advisor: Travis Glenn**

FACULTY PUBLICATIONS

Please visit our website for a complete list of faculty publications during the last year. 
[http://www.toxicology.uga.edu](http://www.toxicology.uga.edu)

ALUMNI OF THE YEAR AWARD

The Interdisciplinary Toxicology Program reminds Alumni of the Alumni of the Year Award. Nominations recognize UGA Toxicology graduates who have made significant contributions to the field. This award includes all travel expenses to the UGA Toxicology Spring Retreat. We are seeking nominations from you! These nominations can be for yourself or for another UGA Toxicology Alum. Nominations should include a nomination letter describing his/her accomplishments and a CV or Resume, and one supporting letter. The nominee must be able to attend the Spring Retreat and give a short presentation about their career in toxicology and/or a current topic related to their work. [http://toxicology.uga.edu/alumni/distinguishedservice_award/](http://toxicology.uga.edu/alumni/distinguishedservice_award/)
The Effect of Seston on the Susceptibility of Black Fly Larvae to Bti. Advisor: Raymond Noblet. SECOND PLACE

Transformation of Perfluorinated Compounds during Enzyme Catalyzed Oxidative Humification reactions. Advisor: Jack Huang. THIRD PLACE

Bromate-Induced Epigenetic Alterations in p21 Expression in Renal Cells. Advisor: Brian Cummings. SECOND PLACE

Analysis of measured serum-PFOA data using a physiologically-based pharmacokinetic model predicts drinking water exposure concentrations in a contaminated community. Advisor: Jeff Fisher. FIRST PLACE

Tissue To Blood Partition Coefficients For Deltamethrin (Dlm), Cis-Permethrin (Cis) And Trans-Permethrin In Adult Male Sprague-Dawley Rats And 21-Day Old Pups. Advisor: Jim Bruckner. SECOND PLACE

Toxicokinetics of Deltamethrin in Adult Male Sprague-Dawley Rats. Advisor: Jim Bruckner.


Bscl2 is essential for sperm production in mice. Advisor: Xiaoqin Ye.

The effects of coal fly ash contaminants and selenium on the immune system of the American alligator. Advisor: Travis Glenn

A method for inferring the evolutionary history of dose-response curves. Advisor: Richard Shefferson

Aflatoxin Exposure Associates with Abnormal Liver Function and Infections with HIV and Tuberculosis in Ugandan. Advisor: J.S Wang

Olfactory Defect May contribute to Female Infertility in Olfm1(-/-) Mice. Advisor: Xiaoqin Ye.

Signaling Pathways Mediating BoNT/A-Induced Neurite Outgrowth in Motor Neurons. Advisor: Julie Coffield

Avoidance of unnecessary biopsies among men with suspected prostate cancer using multiparametric magnetic resonance imaging as a diagnostic strategy: A decision analysis. Advisor: Randall Tackett

Can an in vitro invasion assay in human cell lines predict the risk for pregnancy-related listeriosis? Advisor: Mary Alice Smith

Biomonitoring of cadmium, lead, and total mercury among a cohort of traffic workers in Trujillo, Peru. Advisor Luke Naeher

Identification of Methylated and Microbial Metabolites of Green Tea Polyphenols in Humans. Advisor: J.S Wang

Quantification of neuron maturation and neurite outgrowth in vitro using human neural progenitor cells. Advisor: Steve Stice. FIRST PLACE


Timing endocrine disruptor on embryo implantation in CD-1 mice. Advisor: Xiaoqin Ye. SECOND PLACE
2013-14 GRADUATES

Emily McReynolds  Guoqing Qian

Pete Hazelton  Shuo Xiao

Zhoumeng Lin  Kristen Kellock

Pankaj Sethi  Cory Gresham

Kwaku Agyekum  Chi-yen Tseng

Joe Iburg  Madhu. K. Mathilakath
<table>
<thead>
<tr>
<th>Name</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kwaku Agyekum</td>
<td>Founder, ToxGlobal.com</td>
</tr>
<tr>
<td>Tara Almekinder Vogelien</td>
<td>Director Toxicology and Clinical Safety, Business and Research Administration</td>
</tr>
<tr>
<td></td>
<td>NC Research Campus, Kannapolis, NC</td>
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<tr>
<td>Suzanne Baird</td>
<td>MACTEC, Amherst, MA</td>
</tr>
<tr>
<td>Windy Boyd</td>
<td>NIEHS - Biomolecular Screening - Worm Tox Group, Research Triangle Park, NC</td>
</tr>
<tr>
<td>Jason Boyd</td>
<td>USRA Division of Space Life Sciences, Universities Space Research Association</td>
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<tr>
<td></td>
<td>Division of Space Life Sciences, Houston, TX</td>
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<tr>
<td>Jerry Campbell</td>
<td>Assoc. Director Center for Human Health Assessment, The Hamner Institute for</td>
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<tr>
<td></td>
<td>Health Sciences, Research Triangle Park, NC</td>
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<tr>
<td>Deborah Cartwright-Iwanowicz</td>
<td>US Geological Survey - Leetown Science Center, Kearneysville, WV</td>
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<tr>
<td>Deanna Conners</td>
<td>Earthsky, <a href="http://earthsky.org/contact/">http://earthsky.org/contact/</a>, Austin, TX</td>
</tr>
<tr>
<td>Eva Daneke-McLanahan</td>
<td>US EPA, LCRD, USPHS, Raleigh Durham, NC</td>
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<tr>
<td>Amy Dixon Delinsky</td>
<td>US EPA Human exposure and Atmospheric Sciences, RTP, NC</td>
</tr>
<tr>
<td>Gregory Dooley</td>
<td>Dept of Environmental &amp; Radiological Health Sciences, Fort Collins, CO</td>
</tr>
<tr>
<td>Nikolay Filipov</td>
<td>College of Veterinary Medicine Dept. of Physiology and Pharmacology, Athens, GA</td>
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<tr>
<td>Cory Gresham</td>
<td>Veterinarian, Colbert GA</td>
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<tr>
<td>Xianglu Han</td>
<td>Dow Chemical, Midland, MI</td>
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<tr>
<td>Peter Hazelton</td>
<td>Division of Fisheries and Wildlife, West Boylston, MA</td>
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<tr>
<td>Quanren He</td>
<td>Director Toxicology and Clinical Safety, Biothera, Saint Paul, MN</td>
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<tr>
<td>William Matthew Henderson</td>
<td>Research Toxicologist, Ecosystems Research Division, US EPA, Athens, GA</td>
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<tr>
<td>Ofla Hodoh</td>
<td>US EPA Region 4, Atlanta, GA</td>
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<tr>
<td>Victor Johnson</td>
<td>Toxicology and Molecular Biology Branch, Health Effects Laboratory Division,</td>
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<td></td>
<td>Centers for Disease Control and Prevention, Morgantown, WV</td>
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<tr>
<td>Kristen Kellock</td>
<td>Michigan Department of Environmental Quality, Lansing, MI</td>
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<tr>
<td>Angel Kelsey Wall</td>
<td>Savannah River Nuclear Solutions, Aiken, SC</td>
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<tr>
<td>Sang Hyun Kim</td>
<td>Drug Metabolism Team, NITR Korea Food &amp; Drug Administration, Seoul, Korea</td>
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<tr>
<td>Jiyoung Kim</td>
<td>Institute of Toxicology, School of Public Health, Nanjing Medical University,</td>
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<td></td>
<td>Nanjing People’s Republic of China.</td>
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<tr>
<td>Brad Konwick</td>
<td>Postdoctoral Fellow / KADAS Environmental &amp; Engineering, Richland, VA</td>
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<tr>
<td>Soo Kwang Lee</td>
<td>Food and Drug Administration Johns Creek, GA</td>
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<tr>
<td>Zhoumeng Lin</td>
<td>Postdoctoral Fellow, Kansas State University, Manhattan, KS</td>
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<tr>
<td>Michael Lumpkin</td>
<td>Environ, Atlanta, GA</td>
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<tr>
<td>Hongbo Ma</td>
<td>Assistant Professor, Univ of Wisconsin, Env &amp; Occ Health, Milwaukee/Zilber</td>
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<td></td>
<td>School of Public Health, Milwaukee, WI</td>
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<tr>
<td>Audrey Majeske</td>
<td>Human Genome Sequencing Center, Baylor College of Medicine, Houston, TX</td>
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<tr>
<td>Leena Malayil</td>
<td>Research Tech Ctr Trop Emerging Diseases, Athens, GA</td>
</tr>
<tr>
<td>Kristi Manning Folden</td>
<td>Technical Sales, OLIS, Inc., Bogart, GA</td>
</tr>
<tr>
<td>Carrie Marr</td>
<td>Wildlife Biologist, US Fish and Wildlife Service, Phoenix, AZ</td>
</tr>
<tr>
<td>Sheppard Martin</td>
<td>National Health and Environmental Effects Research Laboratory, RTP, NC</td>
</tr>
</tbody>
</table>
This list represents the latest placement info we have on our graduates.

If you have additional information, please send it to toxinfo@uga.edu or call (706) 583-0058
We would like to take this opportunity to invite you to make a financial contribution to the UGA Toxicology Program. You can make a secure credit card contribution online: https://www.externalaffairs.uga.edu/oa/makegift. When doing so, please select “Other” as the Unit and type Toxicology Program in the form space given. Doing so will ensure that your gift is directed to the Toxicology Program.

The Interdisciplinary Program in Toxicology Fund is a University of Georgia Foundation discretionary account supporting the activities of the Interdisciplinary Toxicology Program. It enables the Program to host internationally recognized speakers, hold conferences and workshops and provide support for graduate students to attend national meetings and present scientific results.

If you prefer to make a donation the old-fashioned way, please fill out this form, print it and mail it to our address below. All contributions are tax deductible.

Name: _______________________________________________________

Address: _______________________________________________________

Phone: ____________________ EMail: _________________________

I would like to contribute to the University of Georgia Foundation. My gift will be designated for the Interdisciplinary Program in Toxicology Fund.

The Interdisciplinary Program in Toxicology Fund is a University of Georgia Foundation discretionary account supporting the activities of the Interdisciplinary Toxicology Program. It enables the Program to host internationally recognized speakers, hold conferences and workshops and provide support for graduate students to attend national meetings and present scientific results.

Funds of this type are essential to the expansion and success of this campus-wide interdisciplinary training program.

Enclosed is my gift for $ _____________________

Signature: _______________________________________________________

Please send this form with your check, made payable to the University of Georgia Foundation, to the Interdisciplinary Toxicology Program, Rm. 341, Pharmacy South, Green St., Athens, GA 30602. You may also make a secure credit card donation via our website at http://www.toxicology.uga.edu.

Thank you!!
<table>
<thead>
<tr>
<th>Year</th>
<th>Alumni Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>Kelley Ann Boyle Van Vreede, M.S.</td>
</tr>
</tbody>
</table>
| 1998 | Ilho Cho, M.S.  
Nikolay Miltchev Filipov, Ph.D.  
Wu Li, Ph.D.  
Slawomir Jacek Rzucidlo, Ph.D.  
Daniel John Schoeffner, Ph.D.  
Jeannie Lee Stephenson, M.S.  
Masashi Tsunoda, Ph.D.  
Robert Wesley Wentworth, Ph.D. |
| 1999 | Judy S. Mathew, M.S.  
Christopher Lee Peredney, M.S.  
Karen Marie Zepp, M.S. |
| 2000 | Beverly Schleppi Arnold-Hill, Ph.D.  
Kevin Anthony Holloman, Ph.D.  
Carrie Hamilton Marr, M.S. |
| 2001 | Taras K. Oleksyk, Ph.D.  
Suparna Ajoy Sarkar, Ph.D. |
| 2002 | Windy Ann Boyd, Ph.D.  
Gregory Patrick Dooley, M.S.  
Neera Vintra Gopee, Ph.D.  
Ofia B. Hodoh, M.S.  
Vic Johnson, Ph.D.  
Michael Harrison Lumpkin, Ph.D.  
Jay Paul Overmyer, Ph.D.  
Sarah Suzanne Rentz, M.S.  
Patricia Lynn Shaw-Allen, Ph.D.  
Lonnie Dwayne Williams, M.S. |
| 2003 | Jason Lamar Boyd, Ph.D.  
Russell David Cole, M.S.  
James Claude Cumbee Jr., M.S.  
Shashank Dravid, Ph.D.  
Kristi Manning Folden, M.S.  
Sang Hyun Kim, Ph.D.  
Audrey Jean Majeske, M.S.  
Bradley David Reinhart, M.S. |
| 2004 | Tara Lynn Almekinder, M.S.  
Heather A Brant, M.S.  
Jerry Lamar Campbell Jr., Ph.D.  
Deanna Erin Conners, Ph.D.  
Amy Dixon Delinsky, Ph.D.  
Amber Lynn Graves, M.S.  
Xianglu Han, M.S.  
Quanren He, Ph.D.  
Jiyoung Kim, Ph.D.  
Elizabeth Ann Richardson, M.S.  
Emily Dawn Rogers, M.S.  
Olga Vasyliwna Tsusko, Ph.D.  
Jason M. Unrine, Ph.D.  
Angel K. Wall, M.S.  
Neera Chhabra Young, M.S. |
| 2005 | Kathy Dietzel, M.S.  
Ryan Richard Holem, M.S.  
Catherine J King, M.S.  
Brad Konwiek, M.S.  
Gregory N Oquinn, M.S.  
Tonia Marie Parrott, Ph.D.  
Jennifer Hoffman Peterson, M.S.  
Neelesh Sharma, Ph.D. |
| 2006 | William Matthew Henderson, Ph.D.  
Carey C Hines, Ph.D.  
Molly Visser Schaefer, M.S.  
Denita Williams, M.S.  
Lonnie Dwayne Williams, Ph.D. |
| 2007 | Deborah Iwanowicz, Ph.D.  
Kristen Kelllock, M.S.  
Kyu-Bong Kim, Ph.D.  
Sookwang Lee, Ph.D.  
Eva Danke McLeanahan, Ph.D.  
Paul Melstrom, Ph.D.  
Brook Peterson, Ph.D.  
Glenn Tillman, M.S.  
Aswani Vunnava, M.S. |
| 2008 | Tantiana Donata Burns, Ph.D.  
Curtis Andrew Harris, Ph.D.  
Elizabeth Irvin, Ph.D.  
Lakshmi Kelamangalath, Ph.D.  
Brooks McPhail, Ph.D.  
Michelle Warner Norris, M.S.  
Junshun Qiu, Ph.D.  
David Robert Rouse, M.S.  
Matthew Aaron Taylor, Ph.D.  
William Shouts-Wilson, Ph.D |
| 2009 | Susan Baird, M.S.  
Suzy Rigter Crowell, Ph.D.  
Hongbo Ma, Ph.D.  
Leenal Malayil, M.S. |
| 2010 | Ghanashyam Joshi, M.S.  
Suyang Liu, M.S.  
Sheppard Martin, Ph.D.  
Aren Richardson, Ph.D.  
Bin Sun, Ph.D.  
Denita Williams, Ph.D.  
Li Xu, Ph.D. |
| 2011 | Olorunfemi Adetona, Ph.D.  
Gideon St. Helen, Ph.D.  
Shirley Zhang, Ph.D. |
| 2012 | Adwoa A. Commodore, Ph.D.  
Quoging Qian, Ph.D. |
| 2013 | Kwaku Agyekum, Ph.D.  
Cory Gresham, Ph.D.  
Peter Hazelton, Ph.D.  
Kristen Kelllock, Ph.D.  
Zhoumeng Lin, Ph.D.  
Emily McReynolds, Ph.D.  
Pankaj Sethi, Ph.D.  
Chi-yen Tseng, Ph.D.  
Shuo Xiao, Ph.D. |
| 2014 | Joseph Ibbug, Ph.D.  
Madhusudhanan M.  
Keralapurath, Ph.D. |