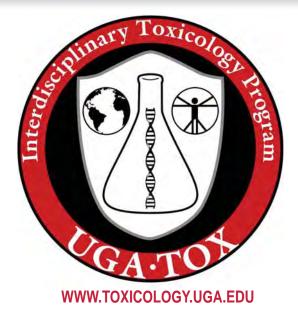
UNIVERSITY OF GEORGIA Interdisciplinary Toxicology Program Spring 2015





Toxicology Program Interdisciplinary

The Interdisciplinary Toxicology Program

Rm. 341 - Pharmacy South Athens, GA 30602 www.toxicology.uga.org 706-583-0058 Brian Cummings, Director

Executive Committee

Brian Cummings Mary Alice Smith Jim Bruckner Robert Bringolf Nick Filipov Raymond Noblet Ron Riley J.S. Wang

Admissions Committee

Mary Alice Smith Ralph Tripp John Wagner Jason Zastre

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Dear Colleagues,

I am pleased to update you on the progress for the Interdisciplinary Toxicology Program. Our faculty continued to shine. This is evidenced by the fact that they have published over 200 manuscripts in the field of toxicology in the last 18 months. Further, we also have several faculty that served in leadership positions in various societies. Not to be outdone, our students continued to make us proud. This year 4 students received their Ph.D. and 10 passed on to Doctoral Candidacy. Further, our students also received several local, regional, national and even some international awards. I am particular proud that we had multiple winners for the Emerging Leader Award here at the University of Georgia. I am also happy to welcome 4 new students for Fall 2015.

We have made significant efforts this year to reach out to undergraduate students, both at UGA and in other areas of the state. These efforts, spurred on by our graduate coordinator, Dr. Mary Alice Smith, were highlighted by our first ever undergraduate recruitment event at the Southeastern Society of Toxicology Meeting at the U.S. Department of Agriculture in Athens. This effort continued at this year's annual Society of Toxicology Meeting in San Diego, CA. I am asking for faculty help in undergraduate recruiting and want to let everyone know that ITP is happy to aid faculty in their travels to meetings and seminars if there is a component of undergraduate recruiting.

ITP is schedule to undergo its 7 year program review in 2015/2016. We have already met with Office of Academic Planning to coordinate this process. We are now in the process of gathering the base data for this review, which we are collecting from faculty and student data bases and CV's. This information will be shared with the faculty in an upcoming self-study to aid in our overall strategy for completing our review documents and charting the future of the ITP. Additionally, we will need up-dated information on our Alumni as well. So please double check our information in this newsletter on Alumni. It is my goal to share with you our progress at the Fall Retreat.

I would like Ms. Joanne Mauro for her tireless efforts on behalf of our program. 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

Tim Dr. Brian S. Cummings Director, ITP



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

College of Public Health

Marsha Black, Environmental Health Science 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 Jia-Sheng Wang, Department Head, Environmental Health Science

Phillip Williams, Dean, College of Public Health **John Yu**, Environmental Health Science

College of Veterinary Medicine

Julie Coffield, Physiology & Pharmacology; Interim Dean, Graduate School 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

Franklin College of Arts and Sciences

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

Odum School of Ecology

Stacey Lance, Savannah River Ecology Lab **Tracey Tuberville**, Savannah River Ecology Lab

R. C. Wilson College of Pharmacy

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

Warnell School of Forestry & Natural Resources

Robert Bringolf , Warnell School of Forestry & Natural Resources

AUBURN UNIVERSITY, AL

Robert Arnold, Auburn Univ., Dept. of Drug Discovery and Development

FDA

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

USDA

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

FACULTY RESEARCH HIGHLIGHTS



Steve Stice

Dr. Steven Stice was awarded the highest scholastic faculty award; The D.W. Brooks Distinguished Professorship, and is also a Georgia Research Alliance Eminent Scholar endowed chair, and Director of the Regenerative Bioscience Center at The University of Georgia. His credits include producing the world's first cloned rabbit, the world's first cloned calves and the first pigs cloned from adult cells. He has over 20 years of research and development experience in biotechnology and is a co-founder of five biotechnology companies, including ArunA Biomedical and SciStem, which he currently serves as Chief Scientific Officer. ArunA was the first company to commercialize a product derived from human pluripotent stem cells, and the company has developed stem cells that were used to facilitate approval of Pfizer's current cognitive enhancing pharmaceuticals.

The Stice lab fluctuates from between 10 and 15 people comprised of postdoctoral fellows, graduate students, and a few technicians and visiting scientist.

Currently, Dr. Stice's lab is collaborating on the development of a rapid toxicity test funded by the EPA STAR fund. The new in vitro method will allow testing of a large number of chemicals for developmental neurotoxicity while reducing the number of animals used in toxicity testing.

"My lab studies bacterial resistance to toxic metals and the mobile genetic elements that frequently carry such genetic loci. In the former area, we have focused on the mercury resistance locus which allows bacteria to survive exposure to methyl mercury and inorganic mercury using dedicated enzymes and transporters whose expression is controlled by a unique metalloregulator. Recently we've also defined the distinct molecular damage caused by inorganic and organic Hg compounds, illuminating the bases for their different toxicological profiles and possibilities for cellular recovery. In studying Hg resistance and toxicity at the whole cell and purified protein and DNA levels we use classical and molecular genetics and biophysical techniques including calorimetry, X-ray absorption spectroscopy, NMR, EPR, mass spectrometry-based proteomics and RNA-seq transcriptomics. Our interest in mobile genetic elements arises because bacterial plasmids and transposons frequently carry genetically linked loci for



Anne Summers

metal resistance and for multiple antibiotic resistances. Exposure of humans to one or the other type of selective agent results in spread throughout our commensal bacteria of genes for both types of resistance trait, i.e. metal exposure "co-selects" for multi-antibiotic resistance, which can readily be transferred to any incoming pathogen. We are currently examining a new biocompatible Hg-sequestering material which may prevent the spread of linked Hg- and antibiotic-resistance. Work in my lab has been funded continuously four decades by a mix of awards from NIH, NSF, DOE, EPA, USDA, and private foundations and corporations."

FACULTY PUBLICATIONS

More than 200 articles have been published by our faculty over the past 18 months. Please visit our website for a complete list of faculty publications during the last year. http://www.toxicology.uga.edu

EXECUTIVE COMMITTEE

The ITP Executive Committee members are: Brian S. Cummings, Robert Bringolf, Jim Bruckner, Nick Filipov, Mary Alice Smith, Ray Noblet, Ron Riley and J.S. Wang. This Committee worked with the Curriculum Committee members Marsha Black and Xiaoqin Ye to plan for the future of the Interdisciplinary Toxicology Program. Redefining courses currently offered and courses to offer in the future were primary tasks for these committees this year. Advanced courses in Toxicology including Immunotoxicology and Principles of Toxicology I and II are being devoloped.



Dr. Luke Naeher



Dr. Brian Cummings & Mary Alice Smith. SOT 2015



Brian Cummings, (Left) and students. SESOT 2014

ADMISSIONS COMMITTEE

Our program has graduated 75 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 30.5 months. Along with 4 Ph.D.'s awarded this year, we also had 12 Doctoral Candidacy awards. Recruiting this year included our first **"SESOT UNDERGRAD PROGRAM"**. This brought students from several schools to Athens for the SESOT Conference in October 2014. We also participated in the SOT Undergraduate Program and made recruiting trips to North Georgia College. One of our students, Natalie Scholpa, participated in the Emerging Leaders Program. We also won 3 Graduate School Awards and 2 Excellence in Graduate Recruitment Awards this year. Our incoming class has an average Undergraduate GPA of 3.45. **Dr. Filipov, Dr. Lu, Dr. Wagner and Dr. Ye 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!

12 DOCTORAL CANDIDACY AWARDS IN 2014-15:

Manoj Amaraneni Advisor: Jim Bruckner Ahmed El Zowalaty, Advisor: Xiaoqin Ye Anna Hejl, Advisor: Luke Naeher Eric Goolsby, Advisor: Lisa Donovan Min-su Kang, Advisor: J.S. Wang Ramya Kolli, Advisor: Brian Cummings Lisa Luo, Advisor: Qingguo Huang Rahat Wadhwa Desai, Advisor: Mary Alice Smith Jincheng Wang, Advisor: Jia-Sheng Wang Rachel Worley, Advisor: Jeff Fisher Xian Wu, Advisor: Steven Stice Kathy Xue, Advisor: J.S. Wang



Dr. Jia-Sheng Wang (Center), and Students



Anna Hejl Adetona



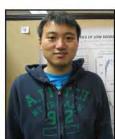
Elizabeth Dudley





Ahmed El Zowalaty

Rong Li



Chen Chen



Donna Glinski







Forrest Goodfellow





Hunter Connell

Eric Goolsby



Minsu Kang







Shangtao Liang





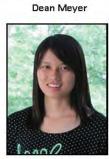




Lisa Luo



Jincheng Wang



Hongye Wei



Ramya Kolli

Adrian Parr



Robby Williams



Rachel Worley

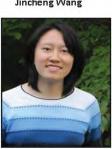


Matthew Urich

Xian Wu



Joella Xu



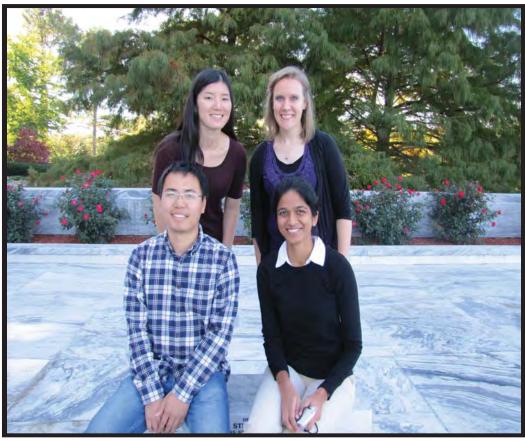
Kathy Xue



Jun Zhou

ITP 2014-2015 CLASS

UGATOX



2014-2015 UGATOX OFFICERS.

Pictured, L to R:

TOP ROW: TREASURER MIN-SU KANG; PRESIDENT ANNA HEJL ADETONA BOTTOM ROW: VICE PRESIDENT XIAN WU, SECRETARY RAMYA KOLLI

Since the next round of elections and nominations (2015-2016 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!

Anna

STUDENT AWARDS

Donna Glinski - Innovative and Interdisciplinary Research Grant. Advisor - Marsha Black Eric Goolsby - Nat'l Science Foundation Doctoral Dissertation Improvement Grant. Advisor - Lisa Donovan Lisa Luo - Student Paper Competition for Battelle Conference 2015 at New Orleans. Advisor - Jack Huang Adrian Parr - Innovative and Interdisciplinary Research Grant. Adivsor - Robert Bringolf Natalie Scholpa - ARCS award; Society for Experimental Biology and Medicine's 2015 Young Investigator Award; 1st Place - SESOT Platform Presentation; Emerging Leaders Award; Dissertation Completion Award. Advisor: Brian Cummings Matt Urich - Innovative and Interdisciplinary Research Grant. Advisor - Robert Bringolf Rahat Wadhwa-Desai - 1st Place, Center for Food Safety 2015 Conference; 2015 Emerging Leaders Award. Advisor - Mary Alice Smith Rachel Worley - 1st Place SESOT Poster. Advisor - Jeff Fisher Xian Wu - Emerging Leaders Award. Advisor - Steve Stice Jun Zhou - 2015 Lalor Foundation Merit Award, SSR. Advisor - Xiaoqin Ye

STUDENT RESEARCH

YINGJIA CHEN:

Chen, Y., Chen, X., Guo, T. L., Zhou, P. Improving the thermostability of beta-lactoglobulin via glycation: the effect of sugar structure. Food Research International, 2015, 69: 106-113

DONNA GLINSKI:

Van Meter, R.J., Glinski, D.A., Henderson, W.M., Garrison, W.A., and Purucker, S.T. Pesticide uptake across the amphibian dermis through soil and overspray exposures. Archives of Environmental Contamination and Toxicology. Accepted.

Van Meter, R. J., Glinski, D.A., Hong, T., Cyterski, M., Henderson, W. M. and Purucker, S. T. (2014). Estimating terrestrial amphibian pesticide body burden through dermal exposure. Environmental Pollution, 193, 262-268.

ERIC GOOLSBY:

Goolsby EW. 2015. "PhyloCurve R package: Phylogenetic comparative methods for function-valued and other high-dimensional traits." The Comprehensive R Archive Network (CRAN).

Goolsby EW. "Phylogenetic comparative methods for evaluating the evolutionary history of function-valued traits." Systematic Biology. In press.

Goolsby EW, Mason CM. 2015. "Toward a more physiologically and evolutionarily relevant definition of metal hyperaccumulation in plants." Frontiers in Plant Science. 6:33. doi: 10.3389/ fpls.2015.00033.

RONG LI:

Li, R., Zowalaty, A.E., Chen, W., Dudley, E.A., and Ye, X. (2014) Segreted responses of mammary gland development and vaginal opening to prepubertal genistein exposure in Bscl2-/- female mice with lipodystrophy. Reprod Toxicol; Epub ahead of print (PMID 25462787).

Zhao, F., Zhou, J., El Zowalaty, A.E., Li, R., Dudley, E.A., Ye, X. (2014) Timing and recovery of postweaning exposure to diethylstilbestrol on early pregnancy in CD-1 mice. Reprod Toxicol; 49C:48-54. (PMID: 25062584).

NATALIE SCHOLPA:

Cummings B.S., Pati S., Sahin S., Scholpa N.E., Monian P., Trinquero P.O., Clark J.K. and Wagner J.J. (in press) Differential Effects of Cocaine Exposure on the Abundance of Phospholipid Species in Rat Brain and Blood. Drug and Alcohol Dependence.

Scholpa N.E., Zhang X., Kolli R.T. and Cummings B.S. (2014) Epigenetic Changes in p21 Expression in Renal Cells after Exposure to Bromate. Toxicological Sciences 141(2) 432-440.

Quach N.D., Mock J.N., Scholpa N.E., Eggert M.W., Payré C., Lambeau G., Arnold R.D. and Cummings B.S. (2014) Role of the Phospholipase A2 Receptor in Liposomal Drug Delivery in Prostate Cancer Cells. Molecular Pharmacology 27(9) 1496-1503 Waters K.M., Cummings B.S., Shankaran H., Scholpa N.E. and Weber T.J. (2014) ERK Oscillation-Dependent Gene Expression Patterns and Deregulation by The Stress-Response. Chemical Research in Toxicology 11(10) 3443-3451.

JINCHENG WANG:

Wang, J., Tang, L., Glenn, T.C., Wang, J-S. (2015). Aflatoxin B1 induced gut microbiome changes in male F344 rats. The Toxicologist, Supplement to Toxicological Sciences, 144(1), Abstract # 1412.

Wang, J., Tang, L., Wang, J-S. (2015). Biomarkers of dietary polyphenols in cancer studies: Current evidence and beyond. Oxidative Medicine ksand Cellular Longevity, in press.

STUDENT PRESENTATIONS

REGIONAL

Southeastern Society of Toxicology, Athens GA

- **Forrest Goodfellow** Steps Towards Tracking Human Neural Progenitor Stem Cells with Novel Contrast Agents. Advisor: Steve Stice
- **Rong Li** Olfactory Defect May Contribute to Female Infertility in Olfm1(-/-) Mice. Advisor: Xiaoqin Ye.
- **Rachel Worley** Application of the All-Ages Lead Model to Improve Evaluation of Variable Exposures. **Advisor: Jeffrey Fisher.**

Mechanotransduction in the Reproductive Tract, Durham, NC

Jun Zhou Male distal reproductive tract development. Advisor: Xiaoqin Ye

NATIONAL

Military and Veterans Health Technologies Symposium, Atlanta, GA

Forrest Goodfellow Steps Towards Tracking Human Neural Progenitor Stem Cells with Novel Contrast Agents. Advisor: Steve Stice

Regenerative Engineering and Medicine, Athens, GA

Forrest Goodfellow Steps Towards Tracking Human Neural Progenitor Stem Cells with Novel Contrast Agents. Advisor: Steve Stice

Society of Toxicology 54th Annual Meeting, San Diego, CA

Manoj Amaraneni	Determination of Blood-Brain-Barrier (BBB) Permeability and Uptake of Deltamethrin (DLM) in Adult Male SpragueDawley Rats Using an In Situ Brain Perfusion Technique. Advisor: Jim Bruckner		
Chen Chen	Age-Dependence of Toxicokinetics of Deltamethrin in Sprague-Dawley Rats. Advisor: James Bruckner		
Forrest Goodfellow	MR imaging of Human Neural Progenitor Stem Cells: an in vivo Longitudinal Model. Advisor: Steve Stice		
Ramya Kolli	Identification of Epigenetic Modifications of Cyclin-dependent Kinase Inhibitors induced by Nephrotoxicants Using Targeted DNA Methylation and Next Generation Sequencing. Advisor: Brian Cummings		
Natalie Scholpa	Role of Hippocampal p21 in Reward-Induced Behaviors. Advisor: Brian S. Cummings		
Rachel R. Worley	1. Applications of the All-Ages Lead Model to Improve Evaluation of Variable Exposures; 2. Analysis of Measured Serum-PFOA Data Using a Physiologicall Based Pharmacokinetic Model Predicts Exposure Concentrations in a Contaminated Community. Advisor: Jeff Fisher		

STUDENT PRESENTATIONS

Society of Toxicology 54th Annual Meeting, San Diego, CA (cont.)

Jincheng Wang	Aflatoxin B1-Induced Gut Microbiome Changes in Male F344 Rats. Advisor: J.S. Wang	
Xian Wu	Bisphenol A Effects on In Vitro Human Neural Development Was Window of Susceptibility Dependent. Advisor: Steve Stice	
Kathy Xue	Synergism of Fumonisin and Aflatoxin Toxicity and the Underlying Mechanism in Nematode Caenorhabditis elegans. Advisor: J.S Wang	

INTERNATIONAL

8th Int'l Conference on Remediation and Management of Contaminated Sediments, New Orleans, LA

Lisa LuoIn Situ Remediation ofPerfluorooctanoic Acid via EnzymeCatalyzed Oxidative
Humification Reaction. Advisor: Qingguo Huang

Gordon Research Conference, Andover, NH

Ramya KolliEpigenetic Mechanisms Mediating Alterations in the Expression of Cyclin-
Dependent Kinase Inhibitors Induced by Nephrotoxicants: Targeted DNA
Methylation Analysis Using Next-Generation Sequencing.
Advisor: Brian Cummings

Society for the Study of Reproduction, San Juan, PR

Elizabeth Dudley	Defective placentation in Lpar3 deficient mice. Advisor: Xiaoqin Ye			
Ahmed El Zowalaty	Seipin Deficiency Increases Chromocenter Fragmentation and Spermatid Apoptosis Leading to Male Infertility. Advisor: Xiaoqin Ye			
Rong Li	Defective embryo implantation and impaired fertility were secondary effects of neuronal defect in Olfactomedin 1 deficiency female mice. Advisor: Xiaoqin Ye			
Jun Zhou	Abnormal Development of Distal Paramesonephric Ducts and Mesonephric Ducts in Lhfpl2-mutant Mice. Advisor: Xiaoqin Ye			

Symposium on Fluorinated Organics in Environment, Golden, CO

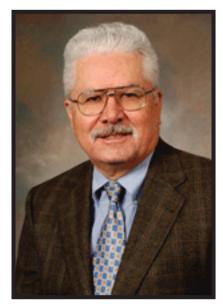
Lisa Luo

Remediation of Perfluorooctanoic Acid with Enzyme Catalyzed Oxidative Humification Reactions. Advisor: Qingguo Huang

ITP SPRING WORKSHOP 2015

PLATFORMS			
Forrest Goodfellow	MR imaging of Human Neural Progenitor Stem Cells: an in vivo Longitudinal Model Advisor: Steve Stice		
Liyun Liu	Brain Derived Neurotrophic Factor Plays a Critical Role in Botulinum Neurotoxin A Induced Neuritogenesis. Advisor: Julie Coffield. SECOND PLACE		
Matthew Urich	Metabolic Profiles of Intersex Largemouth Bass. Advisor: Robert Bringolf. FIRST PLACE		
Kathy Xue	Caenorhabditis elegans as a model system for studying the toxicological interactions of mycotoxins. Advisor: Jia-Sheng Wang.		
POSTERS Anna Adetona	The Effect of Work Task and Smoke Constituents on Airway and Systemic Inflammation in Wildland Firefighters Working at Prescribed Burns. Advisor: Luke Naeher.		
Manoj Amaraneni	Determination of Blood-Brain-Barrier (BBB) Permeability and Uptake of Deltamethrin (DLM) in Adult Male Sprague-Dawley Rats Using an In Situ Brain Perfusion Technique. Advisor: James Bruckner.		
Chen Chen	Toxicokinetics of Deltamethrin in Age-dependent Sprague-Dawley Rats. Advisor: James Bruckner.		
Ahmed ElZowalaty	Impaired fertility of Bscl2-/- females with lipodystrophy. Advisor: Xiaoqin Ye. SECOND PLACE		
Donna A. Glinski	Investigating the influence of environmental factors on pesticide exposure in amphibians. Advisor: Marsha Black.		
Eric Goolsby	Phylogenetic investigation of metal hyperaccumulation evolution in wild sunflowers. Advisor: Lisa Donovan.		
Min-su Kang	Aflatoxin B1 Exposure Modulates HIV to AIDS Pathogenic Progression. Advisor: Jia-Sheng Wang.		
Ramya Kolli	Identification of Epigenetic Modifications of Cyclin-dependent Kinase Inhibitors induced by Nephrotoxicants Using Targeted DNA Methylation and Next-Generation Sequencing. Advisor: Brian Cummings. SECOND PLACE		
Rong Li	Defective embryo implantation and impaired fertility were secondary effects of neuronal defect in Olfactomedin 1 deficiency female mice. Advisor: Xiaoqin Ye.		
Lisa Luo	Degradation of Perfluorooctanoic Acid by Enzyme Catalyzed Oxidative Humification Reaction Advisor: Qingguo Huang.		
Natalie Scholpa	Novel roles for hippocampal p21 in reward-induced behaviors. Advisor: Brian Cummings. FIRST PLACE		
Rahat Wadhwa Desa	ai Predicting Pregnancy-Related Cases of Listeriosis through In Vitro Invasiveness and Biofilm Formation. Advisor: Mary Alice Smith.		
Jincheng Wang	Aflatoxin B1 induced gut microbiome changes in male F344 rats. Advisor: Jia-Sheng Wang. THIRD PLACE		
Rachel Worley	Application of Physiologically-Based Pharmacokinetic Modeling to Explore the Role Kidney Transporters Play in Renal Reabsorption of Perfluorooctanoic Acid in the Rat. Advisor: Jeff Fisher.		
Xian Wu	Bisphenol-A effects on in vitro Human Neural Development was Window of Susceptibility dependent. Advisor: Steve Stice		
Jun Zhou	Abnormal Development of Distal Reproductive Ducts in Lhfpl2-mutant Mice. Advisor: Xiaoqin Ye.		

GUEST LECTURERS



Dr. Daniel Acosta, Jr., Deputy Director for Research, FDA's National Center for Toxicological Research, attended the 2015 ITP Spring Workshop. He presented, "NCTR's Mission at FDA".

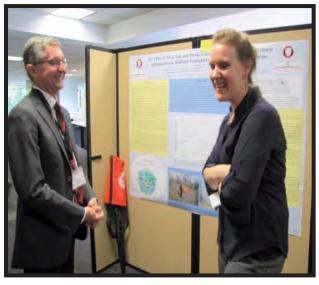
Pictured: Dr. Brian Cummings and Dr. Daniel Acosta





Dr. David M. DeMarini, Genetic Toxicologist Integrated Systems Toxicology Division, U.S. EPA, attended the ITP 2015 Spring Workshop. He presented, "Cooking with Fire: Cookstove Health Safety as Revealed by Multidisciplinary Research".

Pictured: Dr. David DeMarini and Anna Hejl





Dr. Elizabeth Irvin-Barnwell, Agency for Toxic Substances and Disease Registry Center for Disease Control and Prevention, Environmental Epidemiology Branch, joined faculty and students for a UGATOX seminar titled, ""Polycythemia vera cancer cluster investigation: an update on research activities".

Pictured L to R: Min-su Kang, Dr. Jia-Sheng Wang, Dr. Elizabeth Irvin-Barnwell, Anna Hejl, Rahat Wadhwa-Desai.

Back Row: Femi Adetona, Unknown, Maggie Liu, Ramya Kolli.

2014-15 GRADUATES

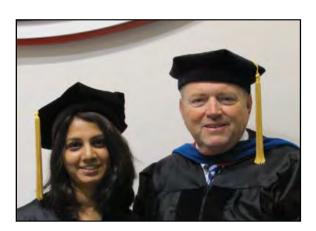
Australia.



Dr. Xiaoqin Ye and Dr. Fei Zhao. Fei is currently working as a Postdoctoral Fellow at Reproductive Developmental Biology Group, National Institute of Environmental Health Sciences (NIEHS) Triangle Research Park, N.C.

> Dr. Palak Patel and Dr. Randall Tackett. Palak is currently at Grady Hospital Pharmacy, in Atlanta, as a Sr. Outcomes Research Manager

Dr. Travis Glenn with Dr. John Finger. John is currently a Research Associate in Environmental Health Science at UGA, working in





Dr. Phillip Williams and Dr. Dean Meyer. Dean is currently seeking a position in the greater Atlanta area.



Support the

Interdisciplinary Toxicology Program

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/os/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:	128	1210 2283.24	211
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, 250 W. Green St., Athens, GA 30602. You may also make a secure credit card donation via our website at http://www.toxicology.uga.edu.



ALUMNI UPDATES WHAT ARE THEY DOING NOW?

Kwaku Agyekum Tara Almekinder Vogelien

Windy Boyd

Jason Boyd

John Finger

Xianglu Han

Quanren He

Ofia Hodoh

Joseph Iburg

Jiyoung Kim

Hongbo Ma

Leena

Kristi

Carrie

Sheppard Martin

Founder, ToxGlobal.com Director Toxicology and Clinical Safety, Business and Research Administration NC Research Campus, Kannapolis, NC Suzanne Baird MACTEC, Amherst, MA NIEHS - Biomolecular Screening - Worm Tox Group, Research Triangle Park, NC USRA Division of Space Life Sciences, Universities Space Research Association Division of Space Life Sciences, Houston, TX Jerry Campbell Assoc. Director Center for Human Health Assessment, The Hamner Institute for Health Sciences, Research Triangle Park, NC Deborah Cartwright-Iwanowicz US Geological Survey - Leetown Science Center, Kearneysville, WV Deanna Conners Earthsky, http://earthsky.org/contact, Austin, TX Eva Daneke-McLanahan Agency for Toxic Substances and Disease Registry, Atlanta GA Amy Dixon Delinsky US EPA Human exposure and Atmospheric Sciences, RTP, NC Gregory Dooley Dept of Environmental & Radiological Health Sciences, Fort Collins, CO Nikolay Filipov College of Veterinary Medicine Dept. of Physiology and Pharmacology, Athens, GA Research Associate in Environmental Health Science, UGA - Sydney, AU Cory Gresham Veterinarian, Colbert GA Dow Chemical, Midland, MI Peter Hazelton Aquatic Toxicologist, Mass Division of Fisheries & Wildlife, West Boylston, MA Director Toxicology and Clinical Safety, Biothera, Saint Paul, MN William Matthew Henderson Research Toxicologist, Ecosystems Research Division, US EPA, Athens, GA US EPA Region 4, Atlanta, GA Research Professional, UGA Victor Johnson Toxicology and Molecular Biology Branch, Health Effects Laboratory Division, Centers for Disease Control and Prevention, Morgantown, WV Kristen Kellock Michigan Department of Environmental Quality, Lansing, MI Angel Kelsey Wall Savannah River Nuclear Solutions, Aiken, SC Madhusudhanan K. Mathilakath, Postdoctoral Assoc., Neuroscience Dept., Baylor College of Medicine, Houston, TX Drug Metabolism Team, NITR Korea Food & Drug Administration, Seoul, Korea Sang Hyun Kim Research Assistant Professor, Research Institute for Veterinary Science, Seoul National University, Seoul, Korea Postdoctoral Fellow / KADAS Environmental & Engineering, Richland, VA Brad Konwick Soo Kwang Lee Food and Drug Administration Johns Creek, GA Postdoctoral Fellow, Kansas State University, Manhattan, KS Zhoumeng Lin Michael Lumpkin CTEH, Little Rock, AR Assistant Professor, Univ of Wisconsin, Env & Occ Health, Milwaukee/Zilber School of Public Health, Milwaukee, WI Audrey Majeske Human Genome Sequencing Center, Baylor College of Medicine, Houston, TX Research Tech Ctr Trop Emerging Diseases, Athens, GA Malayil Technical Sales, OLIS, Inc., Bogart, GA Manning Folden Marr Wildlife Biologist, US Fish and Wildlife Service, Phoenix, AZ

National Health and Environmental Effects Research Laboratory, RTP, NC

ALUMNI UPDATES (Cont.)

Diector Clinical Operations, RFS Pharma, Tucker, GA Judy Mathew Brooks McPhail ORISE Post-doctoral Fellow at Centers for Disease Control, Atlanta, GA Emily McReynolds New Mexico Paul C. Melstrom Epidemiologist/Toxicologist, CDC and Prevention, Atlanta, GA Dean Mever Atlanta, GA Jay Overmyer Syngenta, Research Triangle Park, NC Palak Patel Sr. Outcomes Research Mgr., Grady Hospital, Atlanta, GA Christopher Peredney Toxics Cleanup Program, Washington State Department of Ecology, Olympia, WA Brianna Peterson Forensics Toxicologist, Washington State Patrol, Seattle, WA Jennifer Peterson Firehall 4 Animal Hospital, Athens, GA Guoging Qian Research Fellow, Emory, Atlanta, GA Junshan Qiu Staff Fellow FDA Center for Veterinary Medicine, Rockville, MD Bradley Reinhart Instructor and Lab Manager, University of South Carolina, Aiken, SC Postdoctoral Fellow, Food & Sci Technology College, Athens, GA Arena Richardson Emily Rogers Research Assistant, University of Tennessee, Knoxville, TN Suparna Sarkar Instructor, Barbara Davis Center for Diabetes, University of Colorado Anschutz Medical Campus, Aurora, CO Pankaj Sethi US EPA National Research Lab, Athens, GA Neelesh Sharma Faculty, Division of Veterinary Clinical Medicine, Jammu-181 102. INDIA Patricia Shaw-Allen U.S. Environmental Protection Agency, Cincinnati, OH W. Aaron Shoults-Wilson Asst. Professor, Roosevelt University, Chicago, IL. Gideon St. Helen Cardiovascular Research Institute University of California, San Francisco, CA Bin Sun Product Safety Scientist, New Chapter, Inc., Brattleboro, VT Matthew Taylor Ashland, Inc., Covington, KY Glenn E. Tillman USDA FSIS OPHS Eastern Laboratory, Athens, GA Chi-yen Tseng Ph.D. student, Environmental Science, Baylor University, Waco, TX Masashi Tsunoda Professor, Graduate School of Medicines, Kitasato University, Sagamihara, Kanagawa 228-8555, Japan Faculty, Univ. of Kentucky, Lexington, KY Olga Tsyusko Jason Unrine Faculty, Univ. of Kentucky, Lexington, KY Aswani Vunnava Department of Microbiology and Immunology, Emory, Atlanta, GA Bob Wentworth Emergency Preparedness Manager, Barrow Hall, UGA, Athens, GA Denita Williams Toxicologist, Huntingdon Life Sciences, Somerset, NJ Lonnie W. Williams Kimberly Clark – Roswell, GA; Burdock Group, Vero Beach, FL Li Xu Postdoctoral Fellow, Univ. of Texas MD Anderson Cancer Center, Houston, TX Neera Chhabra Young Science Teacher, Lakeside HS, Augusta, GA Shuo Xiao Postdoctoral Fellow, Northwestern Univ. Medical School, Chicago, IL Xiaoling Zhang University of Pennsylvania Fei Zhao Postdoctoral Fellow, Reproductive Developmental Biology, NIEHS, RTP, NC

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

TOXICOLOGY SNAPSHOTS



INTERDISCIPLINARY TOXICOLOGY PROGRAM ALUMNI

1997

Kelley Ann Boyle Van Vreede, M.S.

1998

Ilho Cho, M.S. Nikolay Miltchev Filipov, Ph.D. Wu Li, Ph.D Slaw omir 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

Neera Vintra Gopee, Ph.D. Taras K. Oleksyk, Ph.D. Suparna Ajoy Sarkar, Ph.D.

2002

Windy Ann Boyd, Ph.D. Gregory Patrick Dooley, M.S. 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. Ouanren He. Ph.D. Jiyoung Kim, Ph.D. Brad Konwick, M.S. Elizabeth Ann Richardson, M.S. Emily Dawn Rogers, M.S. Olga Vasvlivna Tsvusko, 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. 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 Kellock, M.S. Kyu-Bong Kim, Ph.D. Sookwang Lee, Ph.D. Eva Daneke McLanahan, Ph.D. Paul Melstrom, Ph.D Brianna 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 Shoults-Wilson, Ph.D

2009

Susan Baird, M.S. Suzy Ritger Crowell, Ph.D. Hongbo Ma, Ph.D Leenal Malayil, M.S.

2010

Ghanashyam Joshi, M.S. Suyang Liu, M.S. Sheppard Martin, Ph.D. Arena 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 Kellock, Ph.D. Zhoumeng Lin, Ph.D. Emily McReynolds, Ph.D. Pankaj Sethi, Ph.D. Chi-yen Tseng, Ph.D. Shuo Xiao, Ph.D.

2014

John Finger, Ph.D. Joseph Iburg, Ph.D. Madhusudhanan M. Keralapurath, Ph.D. Palak Patel, Ph.D. Fei Zhao, Ph.D.

2015

Dean Meyer, Ph.D

The University of Georgia Interdisciplinary Toxicology Program Rm 341, Pharmacy South Green St. Athens, GA 30602

