

Anthony E. Archibong, Ph.D.



Dr. Anthony Archibong received a Ph.D. from Oregon State University, in the area of Reproductive Endocrinology and conducted post-doctoral research in the Department of Animal Science, North Carolina State University, Raleigh, in Embryo Physiology. He subsequently conducted another post-doctoral research at the Oregon National Primate Research Center, in Gamete Science. Dr. Archibong is currently an Associate Professor and Director of the Core Endocrine Laboratory in the Department of Obstetrics and Gynecology at Meharry Medical College and a visiting Scholar in the Department of Cell and Developmental Biology at Vanderbilt University.

Dr. Archibong's expertise is in mammalian reproductive biology and the molecular mechanism(s) of environmental influence on reproductive function. He is particularly interested in the adverse effects of environmental pollutants on the hormones that regulate male and female gonadal function, gamete interaction and preimplantation embryo development.

He served on the editorial boards, of *Biology of Reproduction*, *Archives of Andrology* and *Advances in Reproduction* and had served as a reviewer for *Journal of Animal Science*. He is currently on the editorial board of *Andrology Update* and a reviewer for the *Biology of Reproduction*, *Theriogenology*, *Fertility Sterility*, *Journal of Endocrinology* and *Asian Journal of Andrology*. He has served two terms in the UDSA Animal Reproduction Study Panel. Dr. Archibong has authored 25 peer-reviewed manuscripts, a book chapter and more than 50 abstracts in the area of reproductive biology/reproductive toxicology. He has been able to maintain continuous extramural funding for his research from federal and private sources, including a minority supplement from NIH to study sperm function in fertilization events. Dr. Archibong has served as a mentored/preceptor to Ph.D. graduate students and has supervised 10 medical students in research whose data presentations have won both Institutional and National awards.

Hector Rubio Arias, Ph.D.



Dr. Hector Rubio Arias obtained his PhD program at New Mexico State University in 1989. He is a full time researcher in the National Research Institute for Forestry, Agriculture and Animal Production (INIFAP) in Mexico. In addition, Dr. Rubio is a middle time professor in the Autonomous University of Chihuahua. He has written three books and has about 40 publications in different journals. Presently, he is carrying out a research project to determine the level of contamination of the Rio Conchos located in the state of Chihuahua, Mexico. Most of the water of this river goes to the United States as part of the agreement between the United States and Mexico signed in 1944. Dr. Rubio belongs to the National Researchers System of

CONACYT-Mexico and is participating as a member of the biosecurity experts of the CONABIO-Mexico

Maria Begonia, Ph.D.



Dr. Maria Begonia is a tenured Associate Professor in the Department of Biology, and an Instruction and Research Faculty in the Environmental Science Ph.D. Program in the College of Science, Engineering and Technology at Jackson State University (JSU).

Dr. Begonia received her B.S. degree (major: Microbiology) from the University of the Philippines at Los Banos; M.S. degree (major: Microbiology/minor: Botany) from Mississippi State University (MSU) in Starkville, MS; and a Ph.D. degree (major: Soil Microbiology/minor: Plant Pathology) from the University of Missouri at Columbia (UMC). She conducted her postdoctoral associate studies both at UMC and MSU.

Dr. Begonia has been affiliated with JSU since 1993. Prior to joining JSU, she was affiliated with the University of the Philippines at Los Banos, Mississippi State University and the University of Missouri at Columbia. She is a recipient of the JSU Faculty Research Award in 2006. In addition to her teaching, research and service functions at JSU, she has been serving as an Associate Editor and Editorial Board Member of the Journal of the Mississippi Academy of Sciences since 2002. She has served as Director, Chair and Vice Chair of the Agriculture and Plant Division, Chair and Co-Chair of the Membership Committee, and Member of the Awards and Resolutions Committee of the Mississippi Academy of Sciences (MAS). She also has served as a Business Manager of the Philippine Society for Microbiology. She has been serving as an external reviewer for the journals Environmental and Experimental Botany, Applied Soil Ecology, Environmental Science and Technology, Journal of Environmental Engineering, and the Journal of the Mississippi Academy of Sciences. She also has reviewed a Biology laboratory manual and several Biology book chapters. She also has served for three years (2003-2005) as an invited panelist in the Microbiology, Neuroscience and Anatomy Division as well as the Plant and Animal Science Division of the Graduate Research and Fellowship Program of the National Science Foundation in Washington, D.C. She has authored and/or co-authored several scientific publications including peer-reviewed manuscripts and abstracts. She is a member of several professional organizations including the American Society for Microbiology, National Science Teachers Association, Mississippi Academy of Sciences, Philippine Society for Microbiology (as a Life Member), and Sigma Xi-the Scientific Research Society.

Jaideep Chaudhary, Ph.D.



Dr. Jaideep Chaudhary is currently an Associate Professor in the Dept. of Biological Sciences, Clark Atlanta University, Atlanta, GA. In 1991, he obtained his Ph.D. in Reproductive Endocrinology from NIHF/ Agra University, New Delhi, India. Both his B.S and M.S. are in Biophysics from Panjab University, India. He has since held various positions including Director, WSU Bioinformatics Core Laboratory, and Research Associate Professor, School of Molecular Biosciences, WSU, Pullman, WA.

Dr. Chaudhary has numerous experiences and professional membership of various associations including: American Association of Cancer Research; European Association of Cancer Research; The Endocrine Society; The Society for the Study of Reproduction; W.E.B. Dubois Faculty Fellow, Clark Atlanta University; Advisor for freshmen; Graduate Students Advisor, Dept. of Biological Sciences, Clark Atlanta University, etc.

José A. Centeno, Ph.D.



Dr. José A. Centeno is a Senior Supervisory Research Scientist and Chief of the Division of Biophysical Toxicology at the Department of Environmental and Infectious Disease Sciences, U.S. Armed Forces Institute of Pathology (AFIP) in Washington D.C. He is also the Director of the *International Tissue and Tumor Repository on Chronic Arseniasis, the Registry on Uranium and Depleted Uranium, and the International Registry on Medical Geology*. Dr. Centeno received his BS and MS in chemistry from the University of Puerto Rico at Mayagüez in 1979 and 1981, respectively; and a Ph.D. in Physical Chemistry from Michigan State University in 1987.

Dr. Centeno has presented over 250 invited seminars and lectures, and published over 85 manuscripts, book chapters (6), reports, monographs, and research abstracts on various topics of trace elements, metals and metalloids, medical geology, environmental toxicology, biomedical research and environmental health issues. He has served on the organizing and scientific committees of several international conferences, including as General Chairman of the 6th *International Symposium in Metal Ions in Biology and Medicine* (ISMIBM) (May 7-10, 2000), and co-chairman of the 7th, 8th, and 9th ISMIBM (2002, 2004 & 2006). He has served on several international environmental and human health committees including the International Agency for Research on Cancer, the U.S. TOSCA-Interagency Testing Committee, the International Working Group on Medical Geology, the National Research Council Committee on Research Priorities for Earth Science and Public Health, and the U.S. Department of Defense Working Group on Biomonitoring. Since 2005, he has served as Officer for the International Union of Geological Sciences and its Commission on Geoscience for Environmental Management (IUGS-GEM). He serves on the Editorial Board of five scientific journals, as associate editor of the book on *Essentials of Medical Geology* (2005), as associate editor of the book *Metal Contaminants in New Zealand* (2005), and as founding member and co-chairman of the *International Medical Geology Association*. He was recently elected as a Fellow of the Royal Society of Chemistry, London, UK.

Dr. Centeno holds adjunct faculty professorships at major universities and medical institutions including the George Washington University-School of Public Health, Turabo University, Jackson State University, and Hope University-Medical School. He is the recipient of the 2005 Jackson State University Research and Sponsored Programs Excellence Award, the 1996 and 2003 Superior Civilian Service Award from the Department of the Army, the 1999 Distinguish Alumni Award on Science from the University of Puerto Rico-Mayaguez, Guest Professorship Award from China University of Mining and Technology (2002), Distinguished Professor Award from Turabo University in Puerto Rico (2003), the William Evans Visiting Fellow from University of Otago, School of Medicine in Wellington, New Zealand (2004). He serves on the External Advisory Board for several university programs including the NSF Model Institutions of Excellence (MIE) Program at Universidad Metropolitana-PR, US Presidential Advisory Board on Health, Science and Engineering for Ana G. Mendez University System, NIH Research Centers for Minority Institutions (RCMI) Program at Jackson State University, as Chairman of the NIH “URGREAT-MBRS-RISE” Program for Universidad del Este in Puerto Rico, and as Chairman of the NSF Science and Technology Access to Research and Graduate Education (STARAGE) program for Jackson State University. Over the last decade, he has focused attention on environmental toxicology, environmental pathology, medical geology, and health effects of trace elements, metals and metalloids, and has conducted research and teaching training activities on medical geology in over 30 countries.

Patricia A. Cole, Ph.D.



Dr. Patricia A. Cole is Director of the Intramural Loan Repayment Program (ILRP), Office of Intramural Research, Office of Intramural Training and Education at the National Institutes of Health. Her responsibilities include advising the senior Office of Intramural Research Managers on policy matters pertaining to the development of intramural loan repayment/forgiveness programs and scientific educational curriculum for doctoral professionals; providing staff support to intramural loan repayment review committees; analyzing intramural applicant eligibility requests and recommending review by loan repayment committees; serving as executive secretary for intramural loan repayment review committees; promoting and serving as a consultant to the Undergraduate Scholarship Program (UGSP) and all activities attendant to the operations of the UGSP, including policy matters; retention, mentoring and outreach activities; and the design of scientific educational curriculum, methodology and professional development. A focus of the ILRP and the

UGSP is to provide education and training which promote biomedical, behavioral, and social science health-related research careers, especially to individuals from under-represented minority and under-served populations. Dr. Cole also serves as an Adjunct Associate Professor in the Department of Communication Sciences and Disorders at Howard University. Dr. Cole is considered a mentoring guru and devoted the past 25 years mentoring students and new professionals.

Prior to the NIH position, Dr. Cole was Director of Mentoring and Professional Development at the Howard University Graduate School where she was responsible for the mentoring activities of the master's and doctoral scholars and all students enrolled in the graduate school. She also implemented the Responsible Conduct of Research Workshop. Dr. Cole coordinated the orientation program and received the Carnegie Foundation Woodrow Wilson Re-envisioning the PhD, Best Practices Award for the Howard University Graduate School's Orientation Program. Notably, she established the Graduate School's Center for Career and Professional Development, the mentoring schema for the Alliance for Graduate Education and the Professoriate Science, Technology, Engineering and Mathematics Program, and she developed a mentoring process model for success in graduate education which was recently accepted for publication in the journal, *Contemporary Issues in Communication Sciences and Disorders*. Before the Howard employment, Dr. Cole was an association executive and served as Director of Membership and Career Development at the American Speech-Language-Hearing Association (ASHA) for 12 years. During her tenure, she developed and led the ASHA Minority Student Leadership Program which focused on creating a pipeline of new leaders to retain and mentor students and increase minority participation. She also created the Career Awareness Day Program which was designed to increase awareness of the professions and ultimately enrollment in communication sciences and disorders programs. She is the author or coauthor of several publications, including the book, *Funding Sources: A Guide for Future Audiologists, Speech-Language Pathologists, and Speech, Language and Hearing Scientists*, which was a best seller and was selected for an Award by Association Trends, a national publication journal.

Dr. Cole received her undergraduate degree from Tougaloo College, Tougaloo, Mississippi and she was inducted into the Tougaloo College Alumni Hall of Fame. Her masters' degree was taken from the University of Mississippi, Oxford, Mississippi, and the doctor of philosophy degree from Howard University, Washington, DC. She is an ASHA Fellow and holds the ASHA national certification in speech-language pathology. She has received several citations and awards for her professional achievements.

Edmond E. Creppy, Ph.D.



Dr. Edmond E. Creppy has been a Professor of Toxicology since 1989; First Class University Professor since 1996, University Bordeaux; Assistant Professor and senior Assistant Professor, Associate Professor and Research Director from 1975 to 1989, University of Strasbourg Louis Pasteur Institute of Molecular and Cellular Biology, CNRS, Strasbourg. He has received numerous degrees and awards during his luscious career.

Dr. Creppy's work experience and professional responsibilities include: Head of the Department of Toxicology and Applied Hygiene (consisting of a staff of 15 people), University of Bordeaux, Faculty of Pharmacy, 146 Rue Léo Saignat, 33076 Bordeaux (France).

Dr. Creppy is also a member of the following scientific societies, boards and committees: All International Societies of Toxicology including European Society of Toxicology (1987); EUROTOX (1989) and SOT (American Society, 1994); the editorial board and reviewer of the journal *Toxicology* (from 1991 to 1996 and since 2000) and of the journal *Human and Experimental Toxicology* (since 1994), and the journal *Archives of Toxicology* from June 1998; *Toxicology and Applied Pharmacology*, *Life Sciences*, *BBA*, etc.; several advisory boards at both national and international levels and consultant for Toxicology.

Since 1977, Dr. Creppy has been the author of more than 220 international publications including *Toxicology* journals, *FEBS Letters*, *BBRC*, *BBA*, *Phytochemistry*, *Tetrahedron Lett.* *Mutation Research*, *American Journal of Kidney Diseases*, *Brain Researches*, and *New England Journal of Medicine*.

Prescott Deininger, Ph.D.



Dr. Prescott Deininger currently holds the Marguerite Main Zimmerman Chair in Basic Cancer Research as a Professor of Epidemiology at the Tulane School of Public Health and Tropical Medicine and is the Interim Director of the Tulane Cancer Center. Dr. Deininger has been an executive editor for *Analytical Biochemistry* since 1990, and serves on the editorial boards of several international journals, as well as numerous grant review boards. He also serves on the National Institute of Environmental Health Sciences Board of Scientific Counselors for the National Toxicology Program.

Dr. Deininger was a graduate student with Dr. Carl Schmid at the University of California, Davis. He completed his dissertation entitled 'Sequence Organization of the Human Genome' in 1978. He carried out several years of postdoctoral training with Dr. Theodore Friedmann at the University of California, San Diego, followed by a year as a NATO fellow with Dr. Frederic Sanger at the MRC in Cambridge, England. Among his accomplishments during those years, he completed the sequence of the polyoma virus genome, he developed random shearing of DNA for shotgun DNA sequencing, initiated the EBV sequencing project, and isolated and analyzed the first clones of Alu repeats from the human genome. In 1981, he took a faculty position in the Department of Biochemistry and Molecular Biology at LSU Health Sciences Center, New Orleans. He advanced to the level of Professor before moving to his position at Tulane University. In 1990, he developed the first dominant negative mutants while on sabbatical as an ACS Distinguished Fellow with Dr. Charles Stiles at the Dana Farber Cancer Institute. Dr. Deininger's laboratory continues to be one of the major laboratories studying the role of mammalian mobile elements in creating genetic instability leading to disease.

David M. DeMarini, Ph.D.



Dr. David M. DeMarini was born in Peoria, Illinois, USA, and he received the B.S. (1972), M.S. (1974), and Ph.D. (1980) in Biological Sciences (genetics) at Illinois State University, Normal, IL, studying under Dr. Herman E. Brockman. From 1980-1982, he did postdoctoral research at the Biology Division, Oak Ridge National Laboratory, Oak Ridge, TN. He then was a Research Geneticist at the National Toxicology Program, National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, NC from 1983-1984. He began his current position as a Research Genetic Toxicologist at the US Environmental Protection Agency (US EPA), Research Triangle Park, NC in 1985. He is also an Adjunct Full Professor, School of Public Health, University of North Carolina, Chapel Hill, NC (1991-present). He is a past president of the Environmental Mutagen Society (EMS, 2001-2002), President of the International Association of Environmental Mutagen Societies (IAEMS, 2005-2009), and Editor of *Mutation Research--Reviews* (1998-present). He has published 145 articles in mutagenesis (125 journal articles and 20 book chapters). His research interests are molecular mechanisms of mutagenesis, mutation spectra, complex mixtures, and biomarkers of mutation in humans.

Waneene Dorsey, Ph.D.



Dr. Waneene C. Dorsey earned her Bachelor of Science degree in Microbiology from Southern University at Baton Rouge, LA. Upon graduation, she worked as a medical technologist in the Department of Bacteriology for 10 years at E.A. Conway Hospital, Monroe, LA. Dr. Dorsey later returned to graduate school at Grambling State University (GSU) where she earned the Masters of Arts in Teaching degree in Natural Sciences. In 2002, she completed the Doctor of Philosophy degree in Environmental Science from Jackson State University, Jackson, MS. She has served as the Wildlife Biology Coordinator in the Department of Biological Sciences and is NTE certified for General Science and Biology in Secondary Education. Dr. Dorsey has received numerous faculty awards and most recently a \$197,000.00 grant from the United States Environmental Protection Agency to fund the GSU-Water Quality Resource Program (WQRP). WQRP is a comprehensive program that provides educational outreach programs, research, and training for K-12 science teachers, GSU biology and chemistry students, and faculty. Her passion for research is the driving force behind numerous published papers and chapters in the reputed international peer-reviewed journals and books. At present, Dr. Dorsey is the Campus Co-Coordinator for the GSU-Louisiana Alliance for Minority Participation (GSU-LAMP), Director for the GSU-LAMP Research Apprentice Mentoring Program, University Supervisor for Biology Education student teachers, and peer-reviewer for the *International Journal of Environmental Research in Public Health*. Throughout her career Dr. Dorsey has been a model of commitment, teaching, mentoring, and research. She has been able to foster effective research collaboration with institutions such as Jackson State University, Louisiana Tech University, and Morehouse School of Medicine. A significant portion of her research is concentrated on the cellular and molecular responses of AML-12 mouse liver cells exposed to pentachlorophenol.

James W. DuMond, Ph.D.



Dr. James W. DuMond is an Associate Professor of Biology at Texas Southern University (TSU) and is the Director for the RCMI-sponsored Proteomics and Functional Genomics Facility at TSU. Dr. DuMond received his BS in Biology with minors in Chemistry and Geology from Eastern Montana College in 1993, his MS in industrial Hygiene from Montana Tech in 1995 and earned his Ph.D. in Environmental Toxicology from the University of Alabama at Birmingham in 1995. After receiving his doctoral degree, he stayed at UAB as a National Cancer Institute Fellow. In 2001, Dr. DuMond accepted a faculty position at Texas Southern University where he has maintained his research activities.

Dr. DuMond is part of several funded research projects at TSU. First and foremost is TSU's RCMI-supported Institute for Biomedical and Health Disparities Research which supports the aforementioned Proteomics and Functional Genomics Facility. Second is the NASA-supported Research Center for Biotechnology and Environmental Health. The objective of this research is to determine the effects of radiation on genomic stability under both G1 gravity and simulated microgravity environments. As they have hypothesize that both acute and chronic radiation exposure will reduce the stability of genome by decreasing the DNA repair capacity of target cells (e.g. lymphocytes) and that this lost may be amplified by a microgravity exposure. They will also investigate the mechanisms responsible for the attenuation of the DNA repair capacity, as well as, determine whether cells in simulated microgravity environments are more susceptible to genotoxic compounds (e.g. antimicrobial agents). Recently Dr. DuMond has completed the NSF-supported project titled the Multidisciplinary Assessment of Environmental Contamination in the Waterways of Southeast Texas. These studies were used to introduce both undergraduate and graduate students to the field of cellular and molecular biology. The objective of this research was to examine the effect of environmental estrogens on the DNA repair system of estrogen sensitive Leydig cells and ER positive and ER negative breast cells.

Jimmy T. Efird, Ph.D.



Dr. Jimmy T. Efird, who received his doctorate from Stanford University School of Medicine, holds advanced degrees in both epidemiology and mathematical statistics.

Dr. Efird has nearly 20 years of experience in biomedical research, with a major strength in analyzing complex data sets from large population-based epidemiological studies. Dr. Efird currently heads the RCMI Biostatistics and Data Management Facility at the John A. Burns School of Medicine and also serves as Director of the Research Core for the Asia-Pacific Institute of Tropical Medicine and Infectious Diseases, Honolulu, Hawaii.

Aquene Freechild, Ph.D.



Dr. Aquene Freechild of the Environmental Health Fund, is the U.S. Liaison for the Sambhavna (SAM-BHAV-NAH) Trust Clinic providing free health care to those poisoned by Union Carbide in Bhopal, India. She has been doing advocacy and development work for the International Campaign for Justice in Bhopal and the Dow Accountability Network for the past 3 years. These organizations use grassroots, shareholder, student and legal strategies to obtain criminal justice, clean water, rehabilitation, and medical care for the survivors of the 1984 Union Carbide Gas Leak that has killed 22,000 people in the past 23 years.

Dr. Freechild also works with Health Care Without Harm, an international coalition of health providers, health affected and environmental groups working to transform the health care industry, without compromising patient safety or care, so it is ecologically sustainable and no longer a source of harm to public health and the environment.

Peter P. Fu, Ph.D.



Dr. Peter P. Fu has been in the field of chemical carcinogenesis for more than 30 years. After he received his Ph.D. degree from University of Illinois at Chicago in 1973, he accepted an appointment at the Ben May Institute for Cancer Research at the University of Chicago from 1973 to 1979, where he was initially a postdoctoral fellow and then an assistant professor. His research focused on elucidation of mechanisms by which polycyclic aromatic hydrocarbons (PAHs) induce cancer, and because PAH carcinogenesis is one of the major cancer research areas, he was recruited to the Division of Chemical Carcinogenesis (the predecessor to the Biochemical Toxicology Division), NCTR in 1979 to continue his studies in this field. To support NCTR/FDA role in regulatory research, Dr. Fu extended his studies to

elucidate the mechanisms by which food contaminants (PAHs, nitro-PAHs, and pyrrolizidine alkaloids), drugs (chloral hydrate, antihistamines, and benzodiazepines), and cosmetics (retinyl palmitate) exert their genotoxic or phototoxic effects.

Dr. Fu's research efforts have resulted in more than 350 refereed papers and book chapters. He has gained international recognition in several different research fields, including carcinogenesis of PAHs, nitro-PAHs, and pyrrolizidine alkaloids, and the neonatal mouse tumorigenicity bioassay. Examples of this recognition include having one of his papers being cited for the Best Paper Award published in *Drug Metabolism and Disposition by the American Society for Pharmacology and Experimental Therapeutics*, his nomination to be a member of the Academia Sinica, his election to the Board of Directors, International Society for Polycyclic Aromatic Compounds, his being featured on the cover of *Cancer Research*, his serving on the Editorial Board of two journals, *Journal of Food and Drug Analysis*, and *Toxicology and Industry Health*, and his serving as an Editor of a journal, *Journal of Environmental Science and Health, Part C, Environmental Carcinogenesis and Ecotoxicology Reviews*.

Jorge Herkovits, MD, Ph.D.



Dr. Herkovits is a Medical Doctor and Ph.D., University of Buenos Aires and Ministry of Education and Science, Spain. Author of 180 scientific contributions most of them in ecotoxicology focusing on the adverse effects of metals, organics, physical agents and environmental samples on early life stages of amphibians. His studies include teratogenesis, stage dependent susceptibility, uptake-tissue residue, biomarkers, low level exposure effects, endocrine disruption, etc. He is co-author of the AMPHITOX toxicity test. By two different approaches, Paleoecotoxicology and Evoecotoxicology, he expanded Environmental Toxicology and Chemistry to the Evolutionary Process with scientific based explanation for events like mass extinctions and environmental signatures from the evolutionary process in living organisms.

Dr. Herkovits is currently a scientist of the National Council of Science and Technology (CONICET), Argentina, Director of the Institute of Environment and Health Sciences, Buenos Aires, Director of the Research Group on Chemical Safety (CONICET), president of Fundacion PROSAMA (Argentina) and Professor of Ecology and Human Health and of Biosafety, Faculty of Medicine, University of Moron (Argentina). He organized four SETAC meetings in Latin America and served as President of SETAC Latin America, senior expert of UNEP at different meetings and activities, Editor of Books and editorial board member of several international journals including Associate Editor of Environmental Health Perspectives and Editor of Environmental Toxicology and Chemistry. Now, he is serving as Associate Editor for Latin America of Environmental Toxicology and Editor of SETAC Books from Latin America.

Huey-Min Hwang, Ph.D.



Dr. Hwang is a tenured Professor and the Director of Environmental Science Master Program in the Department of Biology of Jackson State University. Dr. Hwang received his Ph.D. in Microbiology from the University of Georgia in Athens, Georgia in 1985 and conducted his postdoctoral associate studies there as well in 1986-1989. He obtained his Bachelor of Science in Biology from the National Taiwan Normal University in Taipei, Taiwan in 1975.

Dr. Hwang has been affiliated with Jackson State University since January 1990. He was awarded the Jackson State University Outstanding Faculty Honoree of the Higher Education Appreciation Day Working for Academic Excellence (HEADWAE) Program in 2002. He has been serving as a member of the Environmental Toxicology Task Force of the Institutes of Higher Learning of Mississippi State since June 1996. He served as a section editor of Hazardous Waste Remediation for the journal *Quintessence*® in years 1994-1996. He has been serving as a guest member of the editorial board of the Environmental Chemistry section of the journal *Chemosphere* and as an external reviewer for the journals *Environmental Toxicology and Chemistry*, *Bulletin of Environmental Contamination and Toxicology*, *International Journal of Molecular Sciences*, *Environmental Toxicology*, *Journal of Photochemistry and Photobiology B: Biology*, *International Journal of Pharmaceutics*, and *Environmental Science & Technology*. He has authored or co-authored over sixty publications in peer reviewed journals/books. He is a member of several professional organizations including the American Society for Microbiology, the Society of Environmental Toxicology and Chemistry and Environmental Mutagen Society.

Raphael Isokpehi, Ph.D.



Dr. Raphael D. Isokpehi received his Ph.D. degree in Medical Microbiology from University of Lagos, Nigeria in 2000. He received research training at the Institute of Environmental Health and Animal Hygiene, University of Hohenheim, Germany as well as the Division of Infectious Diseases, Vanderbilt University, TN, USA. He was a Claude Harris Leon Foundation Postdoctoral Fellow at the South African National Bioinformatics Institute (SANBI) from 2001 to 2004. In the Summer of 2004, he was an Ellison Foundation Global Infectious Disease Research Scholar at the Marine Biological Laboratory, Woods Hole, Massachusetts. Since September 2004, he has been an Assistant Professor in the Department of Biology, Jackson State University, Jackson, Mississippi.

Dr. Isokpehi's research interests are in biological data mining and integration; gene expression data analysis, text mining and pathogen bioinformatics. He served as first Chair (2006/2007) of the Steering Committee, Mississippi Computational Biology Consortium (MCBC). He actively supervises undergraduate and graduate students. He organizes bioinformatics and computational biology training workshops at Jackson State University (JSU) and has served on international committees for selecting students for bioinformatics training workshops and travel awards. He is the local liaison for collaboration between the Department of Biology at JSU and Pittsburgh Supercomputing Center's National Resource for Biomedical Supercomputing. He is an Investigator at the Research Centers in Minority Institutions (RCMI) Center for Environmental Health at JSU. He serves as Co-Chair of the Collaboratory Technology Cluster of the Data and Technology Coordinating Center (DTCC) for the RCMI Translational Research Network (RTRN).

Ernest Izevbogie, Ph.D.



Dr. Ernest Izevbogie obtained his Ph.D. degree in Growth and Cell Biology in 1996 from Michigan State University, East Lansing, Michigan. He completed a postdoctoral fellowship in Biochemistry/Cancer Biology at the National Institute of Craniofacial and Dental Research (NIDCR) /NIH, Bethesda, Maryland, from 1996-1998. He joined the Jackson State University (JSU) Biology faculty in 1999, and currently an Associate Professor of Biology.

Dr. Izevbogie's research interest is the characterization, development, and therapeutic index assessment of novel plant-derived agents as candidates for breast cancer prevention and/or therapies. He has patented several plant-based pharmacological formulae as potential candidates for cancer therapies. Additionally, he serves as an international reviewer for Medical Science Monitor (MSM), and Cell and Molecular Biology.

Ramzi Kafoury, Sc.D.



Dr. Ramzi Kafoury is an Associate Professor in Molecular and Cellular Biologist and Toxicology at the Department of Biology, and the Environmental Science Ph. D. Program at Jackson State University in Jackson, Mississippi. Dr. Kafoury received his B. Sc. and M.P.H. degrees from the American University of Beirut. He obtained his Doctor of Science degree from Tulane University School of Public Health and Tropical Medicine in New Orleans, Louisiana. Dr. Kafoury has worked extensively on the mechanisms of ozone toxicity in the lung.

Dr. Kafoury has published considerably on the molecular and cellular mechanisms underlying the effect of ozone and diesel exhaust particles on lung cells. Findings from Dr. Kafoury's research were presented at symposia and seminars at the American Thoracic Society and American Lung Association, American Chemical Society, Oxygen Society, and International Conferences on Environmental Health.

Dr. Kafoury has served in 2004 as a member of the panel of experts of the Environmental Information and Outreach Program of the National Library of Medicine at the National Institutes of Health. He also has served as a reviewer for the American Heart Association Cell Function and Metabolism Committee in 2005. Dr. Kafoury is a Principal Investigator and an active participant in the Center of Environmental Health at the College of Science, Engineering, and Technology at Jackson State University.

Dr. Kafoury is the recipient of the Nationwide Research Grant Award from the American Lung Association in Mississippi in 2001. The Award was competitively extended to 2005. He also was the recipient of the RCMI Group Research Award for the year 2003-2004. Dr. Kafoury received the Scholars Award from the Tulane/Xavier Center for Bioenvironmental Research in 1999 and the Environmental Health Excellence Award from the Department of Environmental Health at Tulane University School of Public Health and Tropical Medicine in 1998.

Murali Iyyanki V. Krishna, Ph.D.



Dr. Murali I. V. Krishna is Professor in Remote Sensing and Satellite Meteorology as well as the Director (R&D) at Jawaharlal Nehru Technological University, Hyderabad 500072, India. He is a Fellow of Institution of Engineers; a Fellow of Institution of Surveyors; a Fellow of AP Academy of Sciences; a Fellow of Indian Geophysical Union and a Senior Member IEEE (USA). He is also a member of the Geospatial Information and Technology Association (GITA) International.

Dr. Krishna has guided 21 Ph.D.s and more than 95 Master's Degree candidates. He is a member of several technical committees and has carried out more than 36 research and sponsored projects. He has organized and implemented nine refresher courses on topics related to space technology and its applications for college teachers and industry participants.

Dr. Krishna has organized five International Conferences and more than 27 workshops, training programs in the area of Satellite Meteorology, computer vision, Image processing, Disaster management, GIS and GPS implementation, and Mobile mapping, as well as, several training programs and workshops on thematic mapping, photogrammetry, and GIS/GPS. He was a visiting professor at Jackson State University, Jackson, Mississippi, USA in 2004; Guest Scientist at DLR - German Space Research Institute, and Summer School Faculty in University of Dundee, UK.

Dr. Krishna is the Founder/Editor of Geospatial Today, and Technology Spectrum; Editor of JNTU Forum on Science and Society -News Letter; Member of Editorial Committee of International Journal on Informatics published by Pentagram Research Foundation.

Joseph R. Landolph, Jr. Ph.D.



Dr. Joseph R. Landolph, Jr., is currently Associate Professor of Molecular Microbiology, Immunology, and Pathology, and a Member of the USC/Norris Comprehensive Cancer Center, in the Keck School of Medicine, and Assoc. Professor of Molecular Pharmacology/Pharmaceutical Sciences, in the School of Pharmacy, with tenure, at University of Southern California (USC) in Los Angeles, California. He received a B. S. degree in Chemistry from Drexel Univ. (Phila., Pa.) in 1971, and a Ph. D. in Chemistry from Univ. of California at Berkeley in 1976 under the late Professor Melvin Calvin. For his Ph. D. thesis, he studied metabolism of the chemical carcinogen, benzo(a)pyrene, and molecular mechanisms of its ability to induce cytotoxicity to mouse liver epithelial cells and morphological transformation in Balb/c3T3 mouse fibroblasts.

Dr. Landolph is commissioned as a 2nd Lieutenant in the U. S. Army through ROTC at Drexel University, and received training in Nuclear/Chemical/Biological Warfare Protection at Ft. Sam Houston, San Antonio, Texas, in 1976 and as a First Lieutenant in the U. S. Army.

Dr. Landolph performed postdoctoral study in chemically induced mutagenesis and morphological/neoplastic cell transformation at the USC/Norris Comprehensive Cancer Center at USC under Professor Charles Heidelberger (1977-1980). Dr. Landolph was appointed Assistant Professor of Pathology in 1980 and Assoc. Professor of Microbiology, Pathology, and Toxicology in 1987, at USC. His research interests include the genetic toxicology of carcinogenic Ni, Cr, and As compounds and PAH. His laboratory also studies the molecular mechanisms Ni, Cr, As, and PAH-induced morphological and neoplastic transformation of C3H/10T1/2 mouse embryo cells and the cell and molecular biology of cell transformation. His laboratory studies the ability of carcinogenic Ni compounds to activate over-expression of oncogenes and inactivate expression of tumor suppressor genes in cells transformed by insoluble carcinogenic Ni compounds (nickel subsulfide, NiS, and green/black NiO).

Dr. Landolph is an expert in chemically induced morphological/neoplastic transformation and mutation in murine and human fibroblasts. He is author/co-author of 55 scientific publications and co-editor of a textbook entitled, "Molecular Carcinogenesis and the Molecular Biology of Cancer. He has held peer-reviewed grant support from U.S. EPA, U. S. NCI, U. S. NIEHS, and Nickel Producers Environmental Research Association (NiPERA).

Dr. Landolph has served as a grant reviewer for U. S. EPA Health Effects Research Panel, for special RFAs for NIEHS, and as an ad hoc member of the Chemical Pathology and AI-Tox-4 Study Sections of N. I. H. He is a member of the Carcinogen Identification Committee of the Scientific Advisory Committee of the Office of Environmental Health Hazard Assessment of California's EPA (1993-Present); and a member of the Scientific Review Panel for Toxic Air Contaminants of California's EPA (2003-Present). He is also a member of the Drinking Water Committee (2002-2008) and the Human Health Research Strategies Review Committee (2002-2004) of the Science Advisory Board of the U. S. E. P. A., and a member of the Human Health Research Review Subcommittee of the Board of Scientific Counselors of the U. S. EPA (2005-2007).

Dr. Landolph is the recipient of numerous awards, including the Merck Award in Chemistry from Drexel Univ. in 1971, an American Cancer Society Postdoctoral Fellowship (1977-1979), the Edmundson Teaching Award in the Dept. of Pathology at USC (1985), and a Traveling Lectureship Award from U. S. Society of Toxicology (1990).

Jerzy Leszczynski, Ph.D.



Dr. Jerzy Leszczynski joined the faculty of the Jackson State University (JSU) Department of Chemistry in 1990 and in 2001 he was named the first JSU Distinguished President's Fellow.

Dr. Leszczynski graduated from the Technical University of Wroclaw (TUW) in Wroclaw, Poland obtaining his M.S (1972) and Ph.D. (1975) degrees. During the period 1976 – 1986 he served as a faculty member at the TUW. In 1986 he moved to USA, initially as a visiting scientist at the University of Florida for the Quantum Theory Project (1986-88) and as a research associate at the University of Alabama at Birmingham (1988-1990).

Dr. Leszczynski is a computational quantum chemist whose areas of interest include: nature of chemical bonds, theoretical predictions of molecular potential energy surfaces and vibrational spectra, structures and properties of molecules with heavy elements, properties and structure of DNA fragments. He also applies computational chemistry methods to environmental problems, nano-science, surface chemistry and atmospheric chemistry. He has published over 500 referred papers in leading journals and more than 30 book chapters.

Dr. Leszczynski has served as referee for almost 50 journals and has been appointed as Founding Editor in Chief of the *International Journal of Molecular Sciences* (Molecular Diversity Preservation International, 2000-2003), Editor of *Structural Chemistry* (Kluwer) 2003- , Editor of a book series *Computational Chemistry: Reviews of Current Trends* (World Scientific) 1996- and *Challenges and Advances in Computational Chemistry and Physics* (Springer) 2004-.

Dr Leszczynski received White House HBCU Millennium Award for Teaching and Research Excellence in Mathematics, Science, Engineering (2001), was elected corresponding member of the European Academy of Sciences (2002), International Academy of Engineering, (2003), European Academy of Sciences, Arts and Humanities (2004), was awarded Honorary Doctorate, Dnipropetrovsk National University, 2003, and Honorary Professorship, Wroclaw University of Technology, 2004. He directs NSF CREST Center at JSU, statewide NSF EPSCoR Computational Chemistry Cluster and serves as the Portfolio Coordinator for Chemical – Biological Defense and Environmental Modeling and Nano-Bio portfolios at the University of Minnesota, Army High Performance Computing Research Center.

Yadong Li, Ph.D.



Dr. Yadong Li earned his Ph.D. degree from Tsinghua University, Beijing, China in 1992. He was a full-time Assistant Professor of Environmental Engineering at Tsinghua University, China from 1992 to 1995. After an appointment as Visiting Scholar at the U.S. EPA National Risk Management Research Laboratory in Cincinnati in 1995, he joined the Department of Civil & Environmental Engineering (CEE), University of Missouri-Columbia (UMC) as a Visiting Assistant Professor, and was involved in both research and teaching. From 1998 to 2001, he was a Research Assistant Professor serving both CEE and the Capsule Pipeline Research Center at UMC in research and teaching in environmental engineering. In the beginning of 2002, he joined Jackson State University as a tenure-track Assistant Professor in the Department of Civil and Environmental Engineering. He is a registered professional engineer (P.E.) in the state of Mississippi.

Dr. Li has been teaching environmental engineering and general engineering courses since he started his teaching and research career in university in 1992. Currently he is teaching both graduate and undergraduate courses in Environmental Engineering. He has supervised four Master's students and one Ph.D. student at the University of Missouri-Columbia as the co-advisor. He is currently advising two graduate students who participate in his ongoing research projects.

Dr. Li has been engaged in research in diverse areas of Environmental Engineering, including Solid and Hazardous Waste Management, Ground Water Pollution, Environmental Chemistry, Hydrology, Biological Processes, and Radioactive Waste Management. He has published numerous research papers in peer-reviewed, refereed professional journals. He obtained a National Science Foundation (NSF) Faculty Early Career Development (CAREER) Award to study the Environmental Hazards of Electronic Waste (E-waste). This is a five-year research project starting July 1, 2003 with a total funding amount of \$420,398.

John A. McLachlan, Ph.D.



Dr. John A. McLachlan is currently the Celia Scott and Albert J. Weatherhead, III Distinguished Professor of Environmental Studies and Professor of Pharmacology at Tulane University. He is also the Director of the Center for Bioenvironmental Research at Tulane and Xavier Universities. Prior to his work at Tulane, McLachlan was Scientific Director at the National Institute of Environmental Health Sciences, NIH. Professor McLachlan is a pioneer in the study of the effects of estrogens on gene imprinting and fetal development and a long time leader in the field of environmental endocrine disruption research. He recently established a major interdisciplinary program and research center at Tulane in the Art, Science and Technology of the Mississippi River known as *RiverSphere* occupying eight acres on the New Orleans riverfront.

Since September 2005, Professor McLachlan and his Center for Bioenvironmental Research have confronted the aftermath of Hurricane Katrina by establishing the Katrina Environmental Research and Restoration Network (kernn.org) and, in partnership with the Tulane School of Architecture, created the Tulane City Center to explore and foster urban resilience and sustainability.

Sidney A. McNairy Jr., Ph.D., D.Sc.



Dr. Sidney A. McNairy Jr. has gained favor and distinction for his dedication to advancing the nation's biomedical research capacity and for his efforts to broaden opportunities for both underrepresented minority institutions, and institutions in 23 states and Puerto Rico that have had limited participation in the nation's biomedical research agenda.

A native of Memphis, Tennessee, Dr. McNairy graduated from St. Augustine High School and LeMoyne-Owen College in his hometown before matriculating as a graduate student at Purdue University in West Lafayette, Indiana. He earned both the master's and doctorate degrees in biochemistry with minors in physiology and organic chemistry at Purdue University. During his graduate career he isolated, chemically characterized, and determined the molecular basis of the biological actions of triterpenoid glycosides. He has done further study at both Columbia and Harvard universities.

Dr. McNairy was a professor of biochemistry for 10 years at Southern University in Baton Rouge, Louisiana. During his tenure at Southern University, he also served as the Director of the Health Research Center and was a visiting scientist at Charles Pfizer, Eli Lilly, General Electric, Standard Oil of California, and the Centers for Disease Control and Prevention.

In 1975 he began his federal career with the National Institutes of Health (NIH), Department of Health and Human Services (DHHS). The NIH is the nation's premier biomedical research organization and is the principal agency within the DHHS that evolves new knowledge that focuses on the causes, effects, prevention, and treatment of human disease. During his career at NIH, Dr. McNairy has been the driving force behind the success of a number of innovative programs that help strengthen biomedical research infrastructure at both emerging and research-intensive institutions throughout the nation. He has also been a leader in developing innovative programs that address health-disparities and health-related science education for K-12 students and the general public.

Dr. McNairy is currently an Associate Director in the National Center for Research Resources (NCRR), NIH and the Director of the Division of Research Infrastructure (DRI). NCRR is one of 27 Institutes/Centers at the NIH and is the nation's leading sponsor of resources that enable scientific inquiry and advances in biomedicine by supporting and developing state-of-the-art biomedical research resources that are critical to the nation's biomedical scientists. As the Director of the Division of Research Infrastructure, Dr. McNairy is responsible for providing oversight management for the Research Centers in Minority Institutions Program, the Institutional Development Award Program, an Animal Facilities Improvement Program, and the Research Facilities Improvement Program. From FY 02-07, Dr. McNairy has managed over \$ 1.0 billion of federal funding that is used to provide competitive support for biomedical and behavioral research at universities throughout the nation.

Dr. McNairy has received numerous awards and honors, including an honorary doctorate degree and designation as an Old Master by his alma mater Purdue University, as well as honorary doctorates from Texas Southern University in Houston, Texas; Jackson State University in Jackson Mississippi; the Morehouse School of Medicine in Atlanta, Georgia; Hunter College of the City University in New York; Florida A&M University in Tallahassee, Florida; and Meharry Medical College in Nashville, TN. He currently serves on the Board of Trustees and is a member of the Golden Parade of alumni at LeMoyne-Owen College. He received the NIH Director's Award, is a member of federal government's Senior Executive Service, and was selected by Harvard University's John F. Kennedy School of Government to participate in the Program for Senior Managers in Government. In 2002, he was the first recipient of the Frederick C. Greenwood Award, given in recognition of his meritorious service to the biomedical research community.

Dr. McNairy is the third eldest child of Mary and the late Sidney McNairy, Sr. He and his wife Bobbie have three children: Alicia, Sidney III, and David; a son-in-law Steve; and eleven grandchildren.

Eugene Muratov, Ph.D.



Dr. Eugene N. Muratov is currently (since 2006) working as a Postdoc Research Associate at the Computational Centre for Molecular Structure and Interactions, Department of Chemistry, Jackson State University, Jackson, Mississippi and as Researcher at the Laboratory on Theoretical Chemistry, Department of Molecular Structure, A.V. Bogatsky Physico-Chemical Institute of Ukrainian National Academy of Sciences. He received his M.S. in Organic Chemical Technology from Odessa National Polytechnic University, Odessa, Ukraine in 2000 and Ph.D. degree in Organic Chemistry from A.V. Bogatsky Physico-Chemical Institute of Ukrainian National Academy of Sciences in 2004.

Dr. Muratov is a theoretic chemist whose areas of interest include: development of theoretical approach and models for studying structure-property relationship i.e. QSAR/QSPR analysis and molecular design of compounds with the desired characteristics. Preferences: QSAR analysis of different antiviral (and other biological) activities and drug design of new effective antivirals and other medical substances. He also applies computational chemistry methods to environmental problems. The main instruments of investigation are molecular topology, molecular mechanics, mathematical chemistry, chemometrics, mathematical and statistical methods, theoretical stereochemistry and conformational analysis, quantum chemistry.

Dr Muratov received several research grants, stipendias and awards. The main are: President of Ukraine Grant for Young Scientists (2006); National Academy of Sciences of Ukraine Stipendia for Young Scientists (2006); Premium of President of Ukraine for young scientists for the series of scientific articles entitled "Hierarchic system for molecular design of biologically active substances" (2006).

Lawrence E. Murr, Ph.D.



Dr. Lawrence E. Murr is Mr. and Mrs. MacIntosh Murchison Professor, Chairman of the Department of Metallurgical and Materials Engineering and director of the Materials Research Institute at the University of Texas at El Paso. Dr. Murr received his B. Sc. in physical science from Albright College. From the Pennsylvania State University, he received his B.S.E.E in electronics, his M.S. in engineering mechanics, and his Ph.D. in solid-state science.

Dr. Murr has taught at the Pennsylvania State University, the University of Southern California, New Mexico Institute of Mining and Technology, and the Oregon Graduate Institute of Science and Technology. He was the Director of the John D. Sullivan Center for In-Situ Mining Research, President of the New Mexico Tech Research Foundation, and Professor and Head of the Metallurgical and Materials Engineering Department at New Mexico Institute of Mining and Technology. He was a past chairman of the New Mexico Joint Center for Materials Science, and served as Vice President for Academic Affairs and Research and Director of the Office of Academic and Research Programs at the Oregon Graduate Institute, where he was also Professor of Materials, Science and Engineering.

Dr. Murr has published 20 books, over 700 scientific and technical articles in a wide range of research areas in Materials Science, and Engineering, Environmental Science, and Engineering, Manufacturing Science, and Engineering, and Biological Science, and Engineering.

Kenneth Olden, Ph.D., Sc.D., L.H.D.



Dr. Kenneth Olden is the most recent past Director of the National Institute of Environmental Health Sciences (NIEHS), National Institutes of Health (NIH), and the National Toxicology Program (NTP) in the U.S. Department of Health and Human Services. He held these positions from 1991 to 2005. He was the first African-American to become Director of one of the 18 institutes in the history of the agency. He has returned full time to his research position as Chief of the Metastasis Section, Laboratory of Molecular Carcinogenesis at the NIEHS, which he also held while director. He is presently the Yerby Visiting Professor at the Harvard School of Public Health.

Dr. Olden received his Ph.D. degree in Cell Biology/Biochemistry from Temple University. He is the recipient of several honorary degrees; namely, Sc.D. degrees from Metropolitan University, San Juan, Puerto Rico, the University of Medicine and Dentistry of New Jersey; the University of Rochester; and an Honorary Doctorate of Science from Tulane University. He also holds an honorary L.H.D. from the college of Charleston. After completing his Ph.D. degree, he was a Research Fellow and

Instructor of Physiology at Harvard University (1970-1974), a Senior Staff Fellow and then a Research Biologist at the Laboratory of Molecular Biology, Division of Cancer Biology and Diagnosis, National Cancer Institute, NIH, Bethesda, MD (1974-1979), Associate Director for Research, Howard University Cancer Center, and Associate Professor of Oncology, Howard University Medical School, Washington, DC (1979-1982), Professor of Oncology and Deputy Director Howard University Cancer Center (1982-1985) and Director (1985-1991), and Professor and Chair of the Department of Oncology (1985-1991).

His honors and awards are too numerous to detail, but among them are: the Toxicology Forum's Distinguished Fellow Award, the Presidential Distinguished Executive Rank Award and the Presidential Meritorious Executive Rank Award by former President Clinton for sustained extraordinary accomplishments, the HHS Secretary's Distinguished Service Award, the American College of Toxicology's First Distinguished Service Award, the National Minority Health Leadership Award (2005), Honorary Doctorate from Tulane University (2006), and an invited participant in the International Conference on "Disaster Prevention and Mitigation" sponsored by the Harvard School of Public Health (2006). He was unique among Institute Directors in that he was awarded three of the most prestigious awards in Public Health: The Calver Award (2002), the Sedgwick Medal (2004), and the Julius B. Richmond Award (2005). He was elected to membership in the Institute of Medicine, National Academy of Sciences, in 1994; and appointed Member of the Visiting Committee, Board of Overseers, Harvard College (2007-2010). He is on the editorial board of numerous journals, serving in most instances as Associate Editor. He has been cited in Current Contents, Life Sciences for having published two of the 100 most-cited papers in 1978-79, one of which was subsequently designated as a "citation classic." Over 28 visiting fellows or post-docs have trained in his laboratory, and he has published over 125 manuscripts in peer-reviewed journals. In addition, Dr. Olden has published more than 45 review articles and book chapters.

He has chaired/co-chaired numerous national/international meetings, and has been an invited speaker, keynote speaker at over 150 symposia seminars, etc.

Since resigning as Director of NIEHS/NTP in 2005, Dr. Olden has been very active as an advisor to non-profit foundations. These include the following:

- Michael J. Fox Foundation for Parkinson's Research
- Avon Breast Cancer Foundation
- Institute for Public Health and Water Research (IPWR)
- Scientific and Medical Accountability Standards Working Group, California Stem Cell Initiative
- Society of Toxicology, Science Strategy Committee
- Robert Wood Johnson Foundation Health & Society Scholars Program
- Research Triangle Environmental Health Collaborative
- Coalition for Safe Minds

Monica M. Paoliello, Ph.D.



Dr. Monica M. Paoliello is an Associate Professor of Toxicology in the Department of Pathology, Clinical and Toxicological Analysis, Center of Health Sciences at the State University of Londrina, Parana, Brazil.

Dr. Paoliello has a Ph.D. (2002) in Public Health from State University of Campinas (UNICAMP), São Paulo. She does research in the area of Toxicology and Environmental Health. She teaches the undergraduate courses (Pharmacy and Biochemistry, and Medical School) and graduate courses (Public Health - master degree) at the State University of Londrina.

Currently Dr. Paoliello is the President of Brazilian Society of Toxicology. She was the Chair of the 13th Brazilian Congress of Toxicology (2003) and President of the Scientific Committee of 14th Brazilian Congress of Toxicology (2005). She has been a consultant at the Brazilian Agency of Health Surveillance (ANVISA) and at the Brazilian Oil Company (Petrobrás), as well.

Anita K. Patlolla, Ph.D.



Dr. Anita Patlolla is currently working as a Research Assistant Professor in the Department of Biology/Env.Sci. Ph.D Program, Jackson State University, Jackson, Mississippi. She received her BS and MS degrees in Genetics from Osmania University, India in 1983 and 1987 respectively; and a Ph.D in Environmental Science [Major concentration: Genetic Toxicology] from Jackson State University in 1997. Dr. Patlolla worked in the area of cerebral vasospasm (STROKE) from 1998 – 2000 as a post-doctoral fellow at University of Mississippi Medical Center, Jackson, Mississippi. During 2002 – 2004, she worked as a post-doctoral fellow in the area of molecular and genetic toxicology at Jackson State University, Jackson, Mississippi.

Dr. Patlolla has published several research papers and chapters in the reputed international peer-reviewed scientific journals and books. She has presented her research findings in several national and international conferences in the form of lectures and posters. Her articles are widely cited by other researchers in the field. Her main areas of research are genetic toxicology and nanotoxicology in animal models. In the year 2007 Dr. Patlolla has received fundings from NIH-EARDA, University Scholar Program-JSU and the most significant one from Air Force Research Laboratory (AFRL) in the area of nanotoxicology. She chaired the “DNA repair and Genotoxicity” session in the 46th Annual Meeting of the Society of Toxicology, Mar 25-29, 2007, Charlotte, North Carolina, USA. Dr. Patlolla also received the AACR MSI Faculty Scholar Award for 2007. She is a member of several professional organizations including Society of Toxicology (SOT), Environmental Mutagen Society (EMS), The Society of Environmental Toxicology and Chemistry (SETAC), American Association of Cancer Research (AACR) and European Association of Cancer Research (EARC).

Aramandla Ramesh, Ph.D.



Dr. Aramandla Ramesh, is an Assistant Professor in Department of Cancer Biology in Meharry Medical College, located in Nashville, TN.

The research in Dr. Ramesh's laboratory focuses on Benzo(a)pyrene (BaP), a lipophilic, widely distributed environmental toxicant that belongs to the polycyclic aromatic hydrocarbon (PAH) family of compounds. Their studies have shown that exposure of rats to BaP and other PAHs cause induction of the cytochrome P450 (CYP) family of enzymes resulting in the formation and distribution of reactive metabolites in plasma and target tissues. Dietary exposure of rats to PAHs via saturated fat results in increased concentration of reactive metabolites, which stay in target tissues for a longer time and cause enhanced DNA damage. Their hypothesis is that dietary fat contributes to BaP-induced colon carcinogenesis through CYP-mediated epoxide and quinone pathways. They are testing their hypothesis by studying the effects of oral exposure of adult Apc Min +/- mice, a colon cancer model, to BaP in saturated fat. Information gained from these studies will reveal the contribution of consumption of fatty foods contaminated with toxic chemicals towards the development of colorectal cancers in humans.

Someswara Nittala Rao, Ph.D.



Dr. Someswara Nittala Rao, was born in Gangavaram, Andhra Pradesh, India and he received his B.Sc (1970), M.Sc (1972) and Ph.D (1977) with Prof. U. Murali Krishna in Analytical Chemistry, Andhra University, and Visakhapatnam, India. He was Post Doctoral Fellow at Regional Research Laboratories, Bhubaneswar, India during 1977-1978 and then he joined in 1978 as a lecturer in Analytical Chemistry at Andhra University. During 1980-82, and again during 1994 he was DAAD fellow at Technical University, Berlin, Germany. He was promoted to Reader in 1991 and became Professor in 1998. He has since mentored 13 students to receive their Ph.D. degrees and at present working with 14 other students pursuing their Ph.D. degrees in

several projects.

Dr. Rao successfully completed 18 major projects and at present 7 major projects are in progress at several stages. He has published 30 papers and life member of 8 professional bodies in India. His research interests are Environmental Chemistry with reference to Air Quality, Water Quality, Noise levels, Environmental Impact Assessment, Early Detection of Underground Mine Fires, Spectroscopy with reference to Hydrogen bonding and charge transfer complexes, liquid phase oxidation process for sulphur recovery from crude oils.

T. Shivaji Rao, Ph.D.



Prof. T. Shivaji Rao is presently working as Director, Center for Environmental Studies, GITAM Engineering College, Visakhapatnam, India. He worked as Professor of Civil and Environmental Engineering at Andhra University, College of Engineering. Besides being an academician and a Research worker in the fields of Ecology and Environmental Pollution Control he has also been a consultant to the state and Central Governments as an expert committee member for several industrial, Irrigation and Hydro-power projects and also worked as an environmental activist by highlighting the crucial environmental issues at public meetings and in the mass media and by preparing scientific and technical reports for presentation before the state High Courts and the Supreme Court.

Dr. Rao has a Bachelors Degree from Sir M. Visweswariah Engineering College in 1956 and worked for 2 years as field Engineer in the water supply and Buildings division of Nagarjuna Sagar dam. Angered by malpractices, he left and joined the faculty of Civil Engineering at Andhra University in 1958 and later proceeded to Rice University, Houston, Texas on Research Assistantship for higher studies.

After returning from USA with MS degree in Environmental Sciences and Engineering, Dr. Rao started Masters degree program in public health Engineering at Andhra University in 1963 and taught the Post Graduate Students the subjects of Epidemiology, Parasitology, Environmental Sanitation, Sanitary Chemistry, Micro-biology, Radiological health, Industrial Hygiene, Hydrology and Hydraulics, Advanced water supply and sewage treatment, Industrial waste treatment, Stream sanitation, Air Pollution Control, Environmental Impact Analysis etc. He also guided these work for Masters and Doctoral Degrees students and published several papers on environmental problems.

Dr. Rao was invited by the Royal Swedish Academy of Sciences for participation in Nobel symposium in August 1976. He was a member of the A. P. State Pollution Control Board (1976-79), Chairman, Technical Committee of the Pollution Control Board (1976-82); Former Member of environmental Appraisal Committee, Ministry of Environmental and Forests, Government of India; Member of the Expert Committee on Artificial Rains, Government of Andhra Pradesh. I am a Fellow of the A. P. Academy of Sciences, Fellow of the Institution of Engineers (India). He is a Recipient of Best Teacher State Award of Government of Andhra Pradesh for 1986-87 and also a Recipient of the University Grants Commission's National Award "Swami Pravananda" Award on "Ecology and Environmental Sciences" for the year 1991.

Besides 70 publications on Environmental Issues in National and International journals Dr. Rao has authored seven books.

Paresh C. Ray, Ph.D.



Dr. Paresh C. Ray is a program director of NSF-PREM program, in the Department of Chemistry, Jackson State University, Jackson, Mississippi. Dr. Paresh Ray received his BS in Chemistry from Vidyasagar University, India and MS in Physical Chemistry from Kalyani University, India, in 1989 and 1992, respectively; and a Ph.D. in Physical Chemistry from Indian Institute of Science in 1997. He has been appointed to several positions including as a Research Scientist in Blacklight Power, New Jersey, as a Postdoctoral fellow in the University of Chicago, Illinois and Columbia University, New York.

Dr. Paresh Ray has published over 100 scientific publications including peer-reviewed manuscripts, book chapters and abstracts. He has presented over 40 seminars, lectures and courses on various topics of Nanoscience and Nanotechnology, Nanomaterial spectroscopy, Nano-Bio technology, nonlinear optics and PDT material. He has served as the chairperson in the American Chemical Society national meeting held in Anaheim, CA in fall 2003. Over the last decade, he has focused his attention on laser spectroscopy of nano-bio interface, DNA detection based on nanotechnology, molecular level understanding of CVD process, CVD diamond, carbon nanotubes, nano particle synthesis and characterization, alternative energy source based on plasma technology, plasma spectroscopy, nanoparticle nonlinear optics, atmospheric chemistry, theoretical understanding of nonlinear optical process and supramolecular hydrogen bonding.

Martyn Teyha Sama, Ph.D.



Dr. Martyn Teyha Sama, Director of the Tropical Medicine Research Center, Kumba - Republic of Cameroon is a senior Research Officer at the Institute of Medical Research and Studies of Medicinal Plants in Cameroon.

Dr. Sama holds a Ph.D in Epidemiology from the School of Public Health and Tropical Medicine Tulane University, U.S.A.

He has written widely on medical issues affecting the people of Cameroon. He has undertaken research in the areas of Tropical Medicine, HIV/AIDS, Health Sector Reforms, and Reproductive Health.

Dr. Sama is a member of various professional bodies and has participated as a consultant in several international projects with the World Health Organisation, the World Bank, Council on Health Research for Development, and the African Development Foundation.

Daniel Sarpong, Ph.D.



Dr. Daniel Sarpong has been Director, Senior Biostatistician and Co-Principal Investigator of the Jackson Heart Study Coordinating Center (Jackson State University) since September 2003. He is also a Research Professor of Biostatistics at Jackson State University. Prior to Jackson Heart Study in August 2000, he was a tenured Associate Professor of Biostatistics at Xavier University of Louisiana in the College of Pharmacy. Dr. Sarpong was an Assistant Professor of Mathematics. From 1991 to 1995, while an enthusiastic and energetic educator, Dr. Sarpong was a resident statistician for Health Education Enrichment Resource U.S. Project: AIDS Prevention Program for Teenagers (CDC funded project); research coordinator for Desire Narcotics Research Center, New Orleans, Louisiana. Project: Cooperative Agreement (National Institute of Drug Abuse funded project) and consulting statistician to The Deep South Center for Environmental Justice of Xavier University, New Orleans Louisiana.

Dr. Sarpong is a member the following professional organizations: American Statistical Association, International Society for Pharmacoeconomics and Outcome Research (ISPOR), American Heart Association, and Society of Clinical Trials. He has published and presented several scientific papers. He has applied biostatistical and research methods to the fields of: cardiovascular disease epidemiology, substance abuse and HIV/AIDS and pharmacoeconomics and outcomes research.

Manoj Shukla, Ph.D.



Dr. Shukla is currently working as a Research Professor of Chemistry at the Department of Chemistry, Jackson State University, Jackson, Mississippi. He received his M.S. and Ph.D. degrees in Physics from the Banaras Hindu University, Varanasi, India in 1991 and 1996, respectively. He was Junior Research Fellow, Senior Research Fellow and Research Associate of Council of Scientific and Industrial Research (CSIR) during 1991-1999. In 1996, he won the Indian Science Congress Association (ISCA) Young Scientist Award in Physics. In 1999, he joined as a Post-Doctoral Research Associate with Prof. Jerzy Leszczynski at the Computational Center for Molecular Structure and Interactions, Department of Chemistry, JSU and initiated research on theoretical modeling of UV-induced molecular phenomena on Nucleic Acid fragments.

Dr. Shukla has published over 50 peer reviewed research papers and four book chapters and made more than 50 presentations in different conferences and symposia. He is currently also co-editing a book entitled “Radiation Induced Molecular Phenomena in Nucleic Acid: A Comprehensive Theoretical and Experimental Analysis” under the book series “Challenges and Advances in Computational Chemistry and Physics” published by Springer, Netherlands. His current research interest includes theoretical modeling of Photophysics of DNA fragments, nanomaterials, nanocontacts and nanotoxicology.

William M. Southerland, Ph.D.



Dr. William M. Southerland received his undergraduate training in Chemistry at North Carolina State University at Raleigh and the Ph. D. degree in Biochemistry from Duke University. He is currently a Professor of Biochemistry & Molecular Biology at the Howard University College of Medicine in Washington, D. C. His research interests are in the area of computational biology with special emphasis on molecular modeling and molecular dynamics in the design of biomolecules.

Dr. Southerland's current research involves the design of new multi-targeted antifolates for the simultaneous inhibition of dihydrofolate reductase, thymidylate synthase, and glycinamide ribonucleotide transformylase in the treatment of cancer. Additional interests include the design of proteins with increased thermal stability for application in the industrial, environmental, and diagnostic arenas.

Ronald Thomas, Ph.D.



Dr. Ronald Thomas received his B.S. in Biology from Tougaloo College in 1987 and his Ph.D. in Environmental Health Sciences with emphasis in Toxicology from the University of Alabama at Birmingham in 1995. His academic career began with an adjunct faculty appointment at Lawson State Community College that led to an assistant professorship at Talladega College in Talladega, AL. In 1996, Dr. Thomas joined the faculty of Florida Agricultural and Mechanical University's College of Pharmacy and Pharmaceutical Sciences in Tallahassee, FL where he is currently a professor of Toxicology. In addition to his teaching duties, Dr. Thomas serves as the activity leader of the Molecular Biology Research Activity sponsored by NIH's Resource Centers in Minority Institutions (RCMI) program and also manages a lab of five graduate students, a research associate and a research technician.

Dr. Thomas has procured research funding from the NIH through the RCMI and the Advanced Research Cooperation for Environmental Health (ARCH) programs. He has also obtained funding from the Department of Defense and the Minority Health Professions Foundation. Dr. Thomas holds memberships in the American Association for Cancer Research, the Society of Toxicology and the American Association for the Advancement of Science. He serves as a grant reviewer for the Susan G. Komen Breast Cancer Foundation, the Philip Morris External Research Group and the NIEHS. Additionally, Dr. Thomas serves as a peer reviewer for scientific research journals including GENE and Mutation Research.

He has received numerous awards for his research and service. These accolades include Florida A&M University's College of Pharmacy and Pharmaceutical Sciences 2003 Researcher of the Year, The AACR Minority-Serving Faculty Scholar Awards in Cancer Research, which is sponsored by the Comprehensive Minority Biomedical Program and the National Cancer Institute, and the Williams R. Jones Outstanding Mentor Award, which is sponsored by the Florida Education Fund. Dr. Thomas is currently investigating the mechanism of estrogen induced breast cancer using various compounds including 2-amino-1-methyl-6-phenylimidazo[4,5-b] pyridine (PhIP), Diethylstilbestrol, and BPDEs and the use of organosulfur compounds found in garlic (diallyl sulfide, diallyl disulfide, and diallyl trisulfide) as possible chemotherapeutic and chemopreventive agents.

William A. Toscano, Ph.D.



Dr. Willam A. Toscano received a Ph.D. in biochemistry from the University of Illinois, Urbana-Champaign in 1978. He was a post-doctoral fellow at the Department of Pharmacology, University of Washington Medical School from 1978-1980. He was on the faculty of toxicology at the Harvard School of Public Health from 1980 – 1989. He was associate professor of toxicology at the University of Minnesota School of Public Health from 1989-1993.

In 1993 he became professor and head of Environmental Health Sciences at the Tulane School of Public Health and Tropical Medicine. In 1999 he returned to the University of Minnesota, School of Public Health where he is professor and head of the Division of Environmental Health Sciences. His research interests are in the area of environmental signal transduction, environmental systems biology, public health genomics, molecular approaches to risk assessment, and global public health.

Benny Washington, Ph.D.



Dr. Benny Washington is currently a Professor in the Department of Biological Sciences at Tennessee State University, Nashville, Tennessee. In 1985, he obtained his Ph.D. in Biochemistry from Atlanta University, Atlanta GA. Both his B.S and M.S. are in Biology from Tennessee State University, Nashville, Tennessee.

Dr. Washington has numerous professional experiences and is a member of various scientific associations including: Society for Neuroscience, Southeastern Pharmacology Society, Society for Cell Biology, and American Clinical Society. He has also published many articles in well renowned scientific journals.
