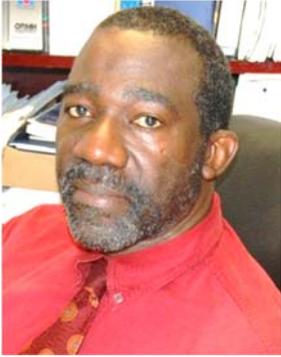


Clifton Addison, Ph.D.



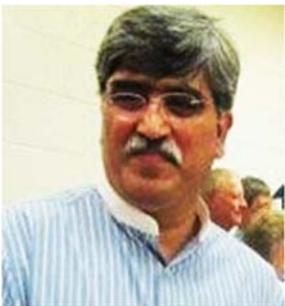
Dr. Clifton Addison is the Senior Investigator at the Community Research Center and the Senior Research Scientist of the Jackson Heart Study, Jackson State University, and has been affiliated with Jackson State University as an educator in Statistics and Research Methodology for a number of years.

Dr Addison has served as Principal Investigator of Project Health which is a school-based intervention program designed to reduce risk factors for cardiovascular disease and has presented numerous reports of his research findings at national and international conferences, including the American Public Health Association Annual meeting, the American Heart Association Annual Conference and the Oxford roundtable, Oxford University, Oxford, England.

Dr. Addison serves as a reviewer for several national and international journals, and has participated in several committees overseeing the daily operations of the Jackson Heart Study. In addition, he has had several manuscripts published in international journals relating to his research work.

Dr. Addison also serves as the editor of the Jackson Heart Study Partnership Newsletter which provides informative articles and study updates to the study cohort and other interested community partners.

H. Anwar Ahmad, Ph.D.



Dr. H. Anwar Ahmad, a tenured professor Biology/Environmental Science at Jackson State University, possess a highly diversified education and experience in biological sciences, biostatistics, risk assessment, and information systems with over 25 years of teaching, research and consulting experiences at various institutes of higher learning. His formal education includes MS in computer information systems and MBA, besides BS, MS, and Ph.D. in biological/life sciences. He has taught several undergraduate and graduate courses in biological sciences, biostatistics, risk analysis, and computer sciences.

Besides teaching in traditional classroom setting to students and adult learners, Dr. Ahmad had exclusively developed and taught several online courses. One of those courses is quantitative risk assessment, developed under extramural funding, and offered to African and US mid-career professionals in international agriculture trade and food safety.

Dr. Ahmad has published over 80 full-length research papers, abstracts and conference proceedings in various scientific journals. His current research interests include: Neural Network Modeling of Physiological Variables; Biostatistics Education and Consulting; Microbial Risk Assessment; and Animal Growth Modeling.

Stella Anyangwe, MD, Ph.D.



Dr. Stella Anyangwe, World Health Organization (WHO) Representative to South Africa since August 2007, is a Physician (MD) and an Epidemiologist (MPH, PhD). She is Cameroonian and perfectly bilingual in English and French. She did her basic medical training in Cameroon, and her post-graduate training in the United Kingdom and the United States of America (MPH and PhD at Tulane University, New Orleans).

As Epidemiologist and Public Health specialist, Dr. Anyangwe's areas of expertise are Social Determinants of Health, prevention of Communicable and Non-Communicable Diseases, and social accountability in medical education.

Dr. Anyangwe joined the World Health Organization in 1996 and has been WHO Representative since 1998, having served in the Seychelles, Mali and Zambia before arriving in South Africa. She is now retired after 17 years in the World Health Organization. Her last post in WHO (Jan 2012-April 2013) was as African Regional Adviser for Disaster Preparedness and response, and based in the African Regional office in Brazzaville, Congo.

Dr. Anyangwe is married, with two adult children. Dr. Anyangwe is a Rotarian (Paul Harris Fellow) and her hobbies are singing and reading.

Anthony E. Archibong, Ph.D.



Dr. Anthony Archibong received his 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. He is currently an Associate Professor and Director of the Core Endocrine in the Department of Physiology at Meharry Medical College. He is also an American Board of Bioanalysis (ABB) Certified Andrologist.

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 pre-implantation embryo development; and preservation of fertility using stem cell technology. He is currently a reviewer for *Biology of Reproduction*, *Fertility Sterility*, *Asian Journal of Andrology*, *Toxicology Letters* and *Andrologia*. He is also on his 14th year as a member of the Minority Affairs Committee of the Society for the Study of Reproduction, a committee saddled with responsibility of mentoring and encouraging Minority Students to take up professions in Biomedical Sciences.

Dr. Archibong holds a fertility patent based on his discovery; Bombesin-like peptides and their receptor antagonists for fertility and contraception. He has published 38 peer-reviewed manuscripts and 5 book chapters and more than 77 abstracts in the area of reproductive biology/reproductive toxicology.

Zikri Arslan, Ph.D.



Dr. Zikri Arslan is an Associate Professor of Analytical and Environmental Chemistry (Dept. of Chemistry), and a joint faculty member at the Environmental Science PhD program at Jackson State University, Jackson, Mississippi. He received his PhD in 2000 from the University of Massachusetts at Amherst, MA in analytical chemistry with an emphasis on applied plasma source mass spectrometry for environmental analysis.

In summer of 2000, Dr. Arslan received a post-doctoral research award from the National Research Council (NRC) to work as post-doctoral fellow at NOAA/NEFSC Howard Marine Sciences Laboratory in Sandy Hook, NJ between 2000 and 2002 under supervision of Dr. Anthony J. Paulson. Later, he continued his post-doctoral research as an assistant research scientist (2002-2003) at the University of Maryland, Chesapeake Biological Laboratory under supervision of Dr. Dave Secor researching on micromilling protocols for identification of bluefin tuna stocks using otoliths.

Dr. Arslan's research focuses on the chemistry and instrumental analysis of trace elements, heavy metals (specifically arsenic, cadmium, mercury and lead) and nanoparticles from environmental and biological samples (water, soil, fish) with an emphasis to understand the pathways of accumulation, transport and their impact on environment and human life. Solid phase extraction methods using microorganism (yeast and bacteria) and chelating materials are developed for separation and detection of elemental species and nanoparticles. Particular interest is given to understanding the impact of engineered nanomaterials, including quantum dots and metals oxides on biological systems using animal models and aquatic species (fish, algae and artemia). He has published numerous papers in peer-reviewed journals and given presentations in national and international conferences.

Abdelfattah M. Badawi, Ph.D.



Dr. Abdelfattah M. Badawi is a Professor of Applied Organic Chemistry in the Egyptian Petroleum Research Institute (Applied Surfactant Laboratory) and General Secretary for the International Society of Therapeutic, Experimental and Clinical Research (Bastia, France). He received his undergraduate training in Chemistry at Cairo University, and Ph. D. degree in Applied Chemistry from Azhar University and D.Sc. degree in Applied Organic Chemistry at Toronto University. He has been a visiting professor at Arkansas University for Medical Sciences in USA. He participated in the research of Applied Surfactant, Metallosurfactant Chemistry and Nanotechnology. His research interests are in the areas of both Environmental Chemistry and Medicinal Chemistry with special

emphasis on antitumor agents.

Dr. Badawi's current research involves investigations on metal based drugs. Additional interests include the development of biocides and investigation of Nanotechnology for destruction of both environmental pollutants and tumors. He as a principle investigator, recently (2013) got Science & Technology Development Fund (STDF) from Egyptian Academy of Science & Technology for 2 years Research Project on "Ascorbate combined with Surface Active Germanium Complexes and their nano-analogues for Therapy of Hepatitis C, Cancers and Prevention of Petroleum-Induced Carcinogenesis". He has authored 2 books published by Trafford pub in USA, titled: *Important Facts About Cancer Prevention; Progress in Cancer treatment*. His personal website is: www.AMBADAWI.com

Márcio Ribeiro Barbosa, MD, Ph.D.



Dr. Márcio Ribeiro Barbosa is a Plastic Surgeon who serves as Surgeon and Researcher in three hospitals in the Sao Paulo state. After obtaining his MD, he became a Resident Doctor from 1993 to 1996, in General Surgery at the Hospital of Clinics in the College of Medicine, University of São Paulo, doing a lot of scientific works in surgery and plastic surgery. From 1996 to 1999 he became a Plastic Surgeon, and was recognized as Specialist by the Brazilian Society of Plastic Surgery in 2000.

Dr. Barbosa's professional experience include: Oncoplastic Surgery in Institute of Cancer Arnaldo Vieira de Carvalho(1996), Female Oncoplastic Reconstruction Surgery in Female Hospital Perola Biyngton (1999), Infants and Pediatric Plastic Surgery in Pediatric Hospital Jesus Boy (1999) and Burns Unit of Hospital Tatuapé (1998) and Hospital of Clinics of College of Medicine of University of São Paulo (1994).

Dr. Barbosa was an assistant doctor in Plastic Surgery and a professor of residents in plastic surgery in Hospital Heliópolis from 2000 to 2002. He also took some post-graduate courses in research and various study fields thus obtaining post-graduation degrees in the following fields: Medicine of Sports (Federal University of São Paulo State - 1997); Acupuncture (Title of Especialization in Acupuncture - 2000); Nutrology (Hospital Portuguese Beneficent with Title of Nutrology - 2007); Politics, Management and Strategy (War Superior School Association - 2008); and Chemistry (Lavras Federal University - 2012).

Dr. Barbosa currently serves as coordinator of Institute of Study and Research of Hospital Cruz Azul of São Paulo, Brazil, and works in research and bioethics. He is the Chief Plastic Surgeon in Hospital SBC, Emergency Clinic in Hospital Cruz Azul of São Paulo, and researches in CAM eggs models with nanocarriers, and treatment of waste water and its effluents.

Gerard Bastian, MD, Ph.D.



Dr. Gérard Bastian is currently head of the Oncopharmacology laboratory which is part of the Pharmacology department at the Pitié-Salpêtrière hospital in Paris. After obtaining his MD and PhD, he started at the Institute Curie in Paris as head of the pharmacokinetics department.

In 1990, he moved to the Salpêtrière hospital in Paris, where he was in charge of the Clinical Research Laboratory of the Medical Oncology Department, which was under the direction of Prof. D. Khayat.

Since 2003, Dr. Bastian has been involved in translational research starting from the testing of new chemicals for their potential antitumor activities against human tumor cell lines; testing by Flow cytometry for the effect of such compounds on the cell cycle; the apoptosis induction and measuring the uptake and efflux inside the cells, nucleus and DNA.

Dr. Bastian is also involved in clinical trials, studying the pharmacokinetics of new drugs during phase I and Phase II trials with special focus on drug – drug interactions. He is a consultant at the French FDA, in charge of most of the phase I trial of new antitumor agents.

Gloria M. Calaf, Ph.D.



Dr. Gloria Calaf is a full professor at the Instituto de Alta Investigación, Tarapacá University in Arica, Chile and Adjunct Research Scientist at Columbia University Medical Center of New York, USA. She received her MS and PhD degrees in Biological Sciences at Michigan State University, East Lansing Michigan. After completing her PhD research, she joined University of Chile in Chile, then Michigan Cancer Foundation in Detroit, Fox Chase Cancer Center in Philadelphia, PA and afterwards Columbia University in New York. Her research interest is in Environmental and Hormonal carcinogenesis, developing in vitro and in vivo breast cancer models to understand initiation promotion and prevention of breast cancer by the effects of either pesticides or radiation in presence of hormones.

Dr. Calaf has identified several genes associated with such processes, and among them *c-Ha-ras*, a pivotal one in the transformation process by the effect of environmental substances. Her current research project is focused on drug resistance and genomic instability in breast carcinogenesis. She has published 110 research papers in peer reviewed journals and has presented her research in several conferences, symposiums and workshops.

Dr. Calaf is a member of American Association for Cancer Research, Tissue Culture Association, New York Academy of Sciences, and International Association for Breast Cancer Research, among others. She is currently in charge of the Biology of Cancer laboratory at Tarapacá University in Arica, Chile

José A. Centeno, Ph.D.



Dr. Jose A. Centeno, M.Sc., Ph.D., FRSC, is a graduate from Michigan State University and a research scientist at the Joint Pathology Center, with over 20 years of experience in the fields of environmental toxicology and medical geology. He is a founding member and the current Chairman of the International Medical Geology Association (IMGA). He is the US Officer of the IUGS-Commission on Geosciences for Environmental Management (GEM) and has served as Senior Adviser, UNESCO-IUGS-International Year of Planet Earth.

Dr. Centeno currently hold adjunct faculty positions at several national and international academic centers and universities including Turabo University in Puerto Rico (as Distinguished Professor, Environmental and Health), Jackson State University, Metropolitan University in Puerto Rico, and the Faculty of Chemistry-University of the Republic of Uruguay.

Dr. Centeno is author and coauthor of over 200 publications (manuscripts, book chapters, reports, monographs and research abstracts), co-editor of the book “Essentials of Medical Geology – Impacts of the Natural Environment on Public Health” (2005) and “Medical Geology – A Regional Synthesis” (2010), and has organized several national and international conferences, including as the founding member of the International Medical Geology Conference series. He has been involved in numerous academic, government and professional activities including serving as a member of the Working Group for the International Agency for Research on Cancer (IARC, Vol. 74), US National Institutes of Health (NIH) grant proposal Study Sections, USAID grant proposal Review Panel, USEPA TOSCA Interagency Testing Committee, US National Research Council Committee on Earth Sciences and Public Health, and National Academies – Board on International Scientific Organizations (BISO). He is the recipient of several national and international awards, and has been invited to speak in more than 50 countries.

Edmond E. Creppy, Ph.D.



Dr. Edmond E. Creppy has been a Professor of Toxicology since 1989; First Class University Professor since 1996. He is a Pharmacist, Chemist and Dr Sc in Toxicology (1978) University Louis Pasteur of Strasbourg, Institute of Molecular and Cellular Biology, CNRS, (France). He is an honorary member of EUROTOX, Honorary President of the French Society of Toxicology; and Laureate of The National Academy of Medicine; Registered European Expert Toxicologist. Member of the International Experts' Order.

Dr. Creppy's field of interest include: Pathways of Natural substances in our Environment and prevention of their Toxicity. He is author of more than 250 international publications in journals including BBRC, BBA, FEBS Letters, Phytochemistry, Tetrahedron Lett. Mutation Research, American Journal of Kidney Diseases, Brain Researches, New England Journal of Medicine. He is a member of the following scientific societies; Boards and Committees including IUTOX, EUROTOX, SOT (American Society, 1994), BST (British), African Society for Toxicological Sciences. Member of the editorial board and reviewer of Toxicology, Human and Experimental Toxicology, Archives of Toxicology; Toxicology and Applied Pharmacology, Life Sciences, BBA, FEBS Letters, Food Additives and Contaminants, Food and Chemical Toxicology, Toxicological Sciences, Toxicology Letters, etc. He is also a member of several board of Experts and Advisors at both national and international levels and a consultant for toxicological problems for both regulatory and experimental affairs.

Jimmy T. Efird, Ph.D.



Dr. Jimmy T. Efird holds a joint appointment as Associate Professor in the Department of Public Health and as Epidemiologist/Chief Statistician (Director, Shared Resources) in the Center for Health Disparities Research, Brody School of Medicine, East Carolina University (ECU). He also serves as Director of Epidemiology and Outcomes Research for the ECU Heart Institute and is an Adjunct Associate Professor in the Department of Cardiovascular Sciences.

Prior to joining ECU, Dr. Efird was Director of the Biostatistics Facility at the John A. Burns School of Medicine (Honolulu, Hawaii) and an Associate Member of the Cancer Research Center of Hawaii. Additionally, he headed the Shared Resources Unit for the Hawaii EXPORT Center (diabetes disparities and associated complications in Native Hawaiians and Pacific peoples) and continues to serve as a Consulting Statistician for the Center for Native and Pacific Health Disparities Research. He is Editor-in-Chief of Cancer Informatics, Associate Editor-in-Chief of International Journal of Biometrics and Bioinformatics, Associate Editor of Advances in Computational Research, and serves on the editorial board for Rare Tumors Journal, Journal of Carcinogenesis & Mutagenesis, Journal of Cancer Science & Therapy, American Journal of Analytical Chemistry, Journal of Biometrics and Biostatistics, UbiCC Journal, Hawaii Journal of Public Health, and Asian Pacific Journal of Tropical Medicine, and Evolutionary Bioinformatics.

Dr. Efird received his Ph.D. from Stanford University (Epidemiology with a concentration in Biostatistics). His expertise includes statistical methods for assessing gene-environment interaction, clinical trial design, computing power and sample size for correlated samples, and multiplicity adjustment for confidence intervals. He has served as a grant reviewer for NIH and the Susan B. Komen Breast Cancer Foundation. He currently serves as a Senior Statistical Consultant for The NCCR-funded RCMI Translational Research Network Data and Technology Coordinating Center.

Ibrahim O. Farah, Ph.D.



Dr. Ibrahim O. Farah is Professor of Biology and Director of the JSU Animal Core Facilities, College of Science, Engineering and Technology, Jackson State University. Dr. Farah graduate with a DVM (1977) and MVSc (1983) from the University of Khartoum in Sudan. He also earned an MS degree in Public health (1981) from the Royal University of Denmark and an MPH (1985) as well as a Ph.D. (1988) from the University of Minnesota, USA.

The primary research focus in Dr. Farah's laboratory has been to understand/exploit the metabolic differences between cancer and normal phenotypes in many organ-associated cancers including those of the lungs, breast, liver and the prostate. The focus area of the research include: Implementing metabolic modulations of cellular homeostatic/energetic deregulation, understanding the differential metabolic/energetic deregulation mechanisms involved in the development of obesity as a chronic entity as well as in its relation to cancer phenotypes, and the experimental modulation and utility of natural biotherapeutics.

Dr. Farah is a reviewer /associate editor or member of the editorial board for more than 10 peer-reviewed journals including Annual Review and Research in Biology (Associate Editor), the international journal of experimental pathology and the British and Saudi Medical journals as well as panel review member for proposals submitted to DOD and the American Biological Institute (ABI). He has received many awards and honors and is currently the president of the Mississippi Academy of Sciences.

Ebenezer Olatunde Farombi, Ph.D.



Dr. Ebenezer Olatunde Farombi is a Full Professor of Biochemistry in the Department of Biochemistry, Faculty of Basic Medical Sciences, College of Medicine, University of Ibadan, Nigeria. He holds a B Sc., M.Sc. and Ph.D Degrees in Biochemistry from the University of Ibadan. He had Postdoctoral training at the University of Liverpool, UK and also at the Institute of Food Safety and Toxicology, Denmark. He is currently the Dean, Faculty of Basic Medical Sciences, College of Medicine University of Ibadan and leads the University of Ibadan Biotechnology "Center of Excellence" project.

Professor Farombi's research interests are on *Molecular Toxicology, Chemical carcinogenesis, Gastrointestinal pathology, Cellular oxidative stress mechanisms, Antioxidant pharmacology, Pharmaceutical indications of nutraceuticals as prophylactic agents, Nutrigenomics as well as Natural product Biotechnology.*

Professor Farombi has to his credit 120 scientific papers in international peer reviewed journals, 10 chapters in books and over 50 conference proceedings. He has edited a book titled "Nutritional Antioxidants in Cancer and Degenerative Diseases" with contributors from Nigeria, Cameroon, USA, Mauritius, South Africa, Japan and Denmark.

Professor Farombi has supervised over 80 BSc, 110 MSc and 13 PhD students. A Fellow of the Royal Society of Chemistry (Cambridge, UK), Professor Farombi is on the Editorial board of many international journals. He is presently the Editor-in-Chief of Toxicology Report the official journal of the West African Society of Toxicology (WASOT) and Chairman Editorial Board -Archives of Basic and Applied Medicine.

Peter Fu, Ph.D.



Dr. Peter P. Fu has been in the field of chemical carcinogenesis for 40 years. He received his Ph.D. degree from University of Illinois at Chicago in 1973 and his research focused on the elucidation of mechanisms by which polycyclic aromatic hydrocarbons (PAHs) induce cancer. Due to the fact that 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), National Center for Toxicological Research (NCTR), U.S. Food and Drug Administration (FDA) in 1979 to continue his studies in this field. In support of NCTR/FDA's mission to provide research for the regulatory needs of

governmental agencies, he extended his studies to elucidate the mechanisms by which food contaminants, dietary supplements, drugs, cosmetics, and nanoparticles exert their genotoxic or phototoxic effects.

Dr. Fu's research efforts have resulted in more than 400 refereed papers and book chapters. He has gained international recognition in several different research fields, including carcinogenesis of PAHs, nitro-PAHs, pyrrolizidine alkaloids, and herbal dietary supplements. This recognition includes a paper being cited for the Best Paper Award published in *Drug Metabolism and Disposition by the American Society for Pharmacology and Experimental Therapeutics*, his being featured on the cover of *Cancer Research*, his serving on the Editorial Board of three journals, *Journal of Food and Drug Analysis*, *Toxicology and Industry Health*, and *The Open Drug Metabolism Journal*, and his serving as an Editor of a journal, *Journal of Environmental Science and Health, Part C, Environmental Carcinogenesis and Ecotoxicology Reviews*. He also currently serves as Adjunct Professor in four universities in the United States and China, and as Scientific Advisor in several universities and institutes.

Marek Gołębowski, Ph.D.



Dr. Marek Gołębowski is currently working as a research Assistant Professor in the Department of Environmental Analysis, Institute for Environmental and Human Health Protection, Faculty of Chemistry, University of Gdańsk, Poland. He received his MS and Ph.D. degrees from University of Gdańsk, Poland (1995 and 2002, respectively). Currently, he is visiting Jackson State University, Department of Civil and Environmental Engineering and CREST Center for a year-long fellowship supported by the European research grant "NanoBRIDGES", directly financed by the 7th Framework Programme of the European Union (Marie Curie FP7-PEOPLE-2011-IRSES).

Over the last decade, Dr. Golebiowski has focused his attention on identification of organic compounds in insects and plants, development of methods for qualitative and quantitative analyses of organic compounds in biological and environmental matrices, and determination of pollutants in environmental samples. His current research involves investigations on the lipids and other organic compounds as potential biofungicides and bioinsecticides, and identification of secondary metabolites produced by entomopathogenic fungi. The research he is presently conducting in US was extended to nanomaterials, including novel study of usefulness of carbon nanotubes in separation methods. He is author or co-author of 50 peer reviewed research papers and two book chapters, and his research has been supported by grants from the National Science Centre, Poland.

Dr. Marek Gołębowski's expertise and accomplishments were well recognized not only by peers, but also by administration. His list of awards include Rector of University of Gdańsk Awards (2008 and 2011), Polish Ministry for Research and Higher Education Award (2009), and Rector of Medical University of Gdańsk Award (2010).

Glake Hill, Ph.D.



Dr. Glake Hill is an Associate Professor of chemistry at Jackson State University. He enrolled at Jackson State and studied at the European School of Quantum Chemistry in Italy and the Gordon School of Chemical Physics in Rhode Island. In 2003, at the young age of 28, he became the first African American and second candidate to receive a doctorate degree in computational chemistry from Jackson State. He received numerous awards, including the President's Research Postdoctoral Fellow from the University of California at Berkeley.

Dr. Hill's research group focuses on developing tools that will provide accurate information about relatively large systems. Using Quantum Monte Carlo methods, Localization methods, basis set extrapolation methods and other innovative techniques, accurate calculations can be performed on systems that are computationally difficult. His research interests include the effect of Ultraviolet and ionizing radiation on nucleic acids and biomolecules.

In 2011, Dr. Glake Hill secured the National Institutes of Health award, "Research Initiative for Scientific Enhancement," for education of chemistry and biology students leading to doctoral degrees. The project totaled \$2.7 million over five years and provides both a nurturing team environment and a well-organized mentoring system for the students. He has mentored and advised over 21 graduate and undergraduate students in the science, technology, engineering and mathematics disciplines. The majority of those are underrepresented minority students.

In February 2013, Dr. Glake Hill, was honored at the state Capitol during the "Higher Education Appreciation Day - Working for Academic Excellence" program, for making outstanding contributions to promote academic excellence.

Md. Alamgir Hossain, Ph.D.

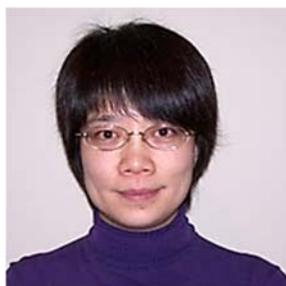


Dr. Alamgir Hossain is an associate professor of chemistry at Jackson State University. He received his bachelor's and master's degrees in chemistry from the University of Dhaka and a Ph.D. in supramolecular chemistry from Hokkaido University in Japan. He was a recipient of an Alexander Humboldt Fellowship for his postdoctoral work with Professor Hans-Jorg Schneider in Germany. Later, he moved to USA, and worked as a postdoctoral researcher with Professor Kristin Bowman-James at the University of Kansas.

Dr. Hossain has been serving as a faculty at Jackson State University since 2005. He is currently leading an independent research group consisting three doctoral, four masters and two undergraduate students, and one postdoctoral researcher. His research includes supramolecular and macromolecular chemistry focusing on non-covalent interactions between synthetic hosts and guest species, and developing new biomimetic sensors for anions of environmental and biological relevance. It was highlighted in Chemical and Engineering News, featured in ACS's home page and covered in the Inorganic Chemistry. He was also featured by "Clarion Ledger" in 2011.

Dr. Hossain has recently received National Science Foundation's prestigious CAREER award that helps him to recruit students from high school to graduate levels at Jackson State University.

Xiaoke Hu, Ph.D.



Dr. Xiaoke Hu is a Professor and Principle Investigator at Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences (CAS). She serves as an Associate Director of the Department of Coastal Biology and Bioresource Utilization from 2013. She established the Laboratory of Marine Environmental Microbiology and Biotechnology and started her research in the field of bioremediation of crude oil spills in the ocean from 2011. She was a postdoctoral research associate at Jackson State University from 2004 to 2008 and a research scientist at Louisiana State University from 2008 to 2011.

Dr. Hu has published more than 50 scientific articles and was awarded the prize of Marine Science and Technology Innovation from the State Oceanic Administration of China (2005) and the Science and Technology Innovation Award from the Shandong Province of China (2004).

She serves as a peer reviewer for several journals in the field of Environmental Sciences, including: Current Microbiology, International Biodeterioration and Biodegradation, Ecotoxicology, Journal of Hazardous Materials, and The Science of the Total Environment.

Brenda Jenkins, Ph.D.



Dr. Brenda W. Jenkins is a Senior Investigator with the Community Research Center and co-Program Director of the Graduate Training Education Center at Jackson Heart Study, Jackson, Mississippi, the largest epidemiological study of cardiovascular disease in African-Americans ever conducted. At the Jackson Heart Study, she facilitated the efforts of the Jackson Heart Study scientists through the development of the study protocol and implementing monitoring procedures throughout the study. Her efforts have resulted in the successful preparation of scientific reports and manuscripts for publication and presentation of study findings and results.

Dr. Jenkins is also co-Principal Investigator of Project Health, an intervention program that recognizes lifestyle, lack of physical fitness or activity, poor dietary practices and discipline as some of the major reasons why Americans are struggling with certain chronic diseases and are dying prematurely. Through Project Health, she strives to promote two important goals in order to combat obesity, diabetes, and other cardiovascular diseases: 1) Increasing quality and years of life, and 2) eliminating health disparities.

Dr. Jenkins has authored numerous manuscripts, presenting research findings at national conferences and seminars with an emphasis on promoting healthy habits and reducing the prevalence of cardiovascular disease and obesity in Mississippi.

In addition, Dr. Jenkins has served as an inspiration to locate health education students, serving as an instructor at Hinds Community College while striving to educate area students to ensure that the overall health status of all U.S. racial and ethnic groups can be improved.

Ilias G. Kavouras, Ph.D.



Dr. Ilias Kavouras holds the position of Associate Professor at UAMS College of Public Health, where he conducts research on the effect of atmospheric pollution on health including climate-driven changes. He was previously the manager of environmental health studies for the French longitudinal children study (Elfe),

At DRI, Dr. Kavouras completed EPA-funded studies on community-scale air toxics risk assessments. He also served as the scientist-in-charge of the Atmospheric Chemistry Laboratory and he conducted studies on the characterization of atmospheric aerosol and persistent organic pollutants such as PAHs and PCBs.

During his affiliation with Harvard School of Public Health, Dr. Kavouras developed the new generation of monitors currently used by EPA to monitor air pollution. He co-authored 50 peer-review publications including one in Nature as first author and obtained funding from federal, state and private funding agencies.

Sanjay Kumar, Ph.D.



Dr. Sanjay Kumar is Research Associate in the Department of Biology of at Jackson State University. He received his PhD in 2007 from Jawaharlal Nehru University (JNU), New Delhi, India in biochemistry and molecular biology with an emphasis on molecular mechanism of free heme toxicity in malaria parasite.

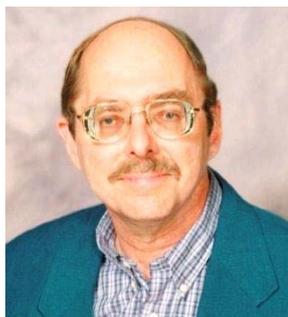
Dr. Kumar had worked in graduation from India premier research institute, Central Drug Research Institute (CDRI) with different prominent research scientist and published eight international publications in reputed scientific journals. He was recipient of Junior and Senior Research Fellowship Award from Council of Scientific and Indian Research (CSIR), India.

Dr. Kumar is currently serving as an editorial board member of Green Earth Research Foundation (GERF) Bulletin of Biosciences and active reviewer of Circulation Research, Open Journal of Medicine and Integrative Physiology (OJMIP) and Environmental Toxicology. He is life member of Indian Society of Parasitology (ISP), associate member of American Association of Cancer Research (AACR) and American Physiological Society. He has presented their research finding in many National and International conferences / symposium in USA and abroad.

Dr. Kumar's research focuses on antimalarial drugs designing, DNA vaccine development, cardiovascular complications (metabolic syndrome), restenosis and leukemia cancer biology. In United States, they focus mainly identification of role of TRPC channels in metabolic syndrome and neurite outgrowth in mammals using ion channels kinetics and advanced imaging techniques.

In restenosis, Dr. Kumar's research groups used diverse array of molecular biological and cell signaling tools to identification of signaling mechanisms involved in smooth muscle cells migration, proliferation and neointima formation through balloon injury-induced rat carotid artery as an *in vivo* model. He is currently working to identify detail molecular mechanism of anticancer role of arsenic trioxide in human leukemia (HL-60) as a test model (*in vitro*) as well *in vivo* mice model of acute promyelocytic leukemia (APL). They specially focus on role of arsenic trioxide on growth inhibition, cell cycle modulation, cell death (apoptosis) and detail signaling mechanisms involved in leukemia cancer cell death.

Joseph R. Landolph Jr., Ph.D.



Dr. Joseph R. Landolph, Jr., received a Ph.D. in Biophysical Chemistry from Univ. Calif. at Berkeley in Berkeley, Calif., (1976) under Prof. Melvin Calvin (Nobel Laureate). For his Ph.D., he studied metabolism of BaP and BaP-induced cytotoxicity and morphological transformation in cultured mouse liver epithelial cells and Balb/c 3T3 mouse fibroblasts. He performed postdoctoral study in chemical mutagenesis, morphological/neoplastic cell transformation, and carcinogenesis at USC/Norris Comprehensive Cancer Center under Prof. Charles Heidelberger (member, U. S. Nat'l. Academy of Sciences) from 1977 to 1980.

Dr. Landolph is currently Assoc. Prof. of Molecular Microbiology/Immunology and Pathology in the Keck School of Medicine, Assoc. Professor of Molecular Pharmacology in the School of Pharmacy, and a Member of USC/Norris Comprehensive Cancer Center at USC. His research interests/activities include studies of the genetic toxicology/carcinogenicity of carcinogenic nickel (Ni), chromium, and arsenic compounds and P.A.H.s. His laboratory studies the ability of carcinogenic Ni and chromium compounds to induce morphological/neoplastic transformation of 10T1/2 mouse embryo cells, and expression of oncogenes/inactivation of expression of tumor suppressor genes and de-regulation of global gene expression, in Ni-transformed cell lines.

Dr. Landolph is an expert in chemically induced mutation and morphological/neoplastic transformation in murine/human fibroblasts. He has served as a grant reviewer for U. S. E.P.A.'s Health Effects Panel, for NIEHS, and as a member of the Chemical Pathology and AI-Tox-4 Study Sections of NIH. He has authored 66 scientific publications, given 192 invited scientific lectures, trained 97 B.S. students, 26 M.S. students, 13 Ph.D. students, and 31 postdoctoral fellows, and hosted 10 faculty and 4 high school teachers on sabbaticals.

Jerzy Leszczynski, Ph.D.



Dr. Jerzy Leszczynski Professor of Chemistry and President's Distinguished Fellow at Jackson State University. He attended the Technical University of Wroclaw in Wroclaw, Poland obtaining his M.S (1972) and Ph.D. (1975) degrees. In 1986 he moved to USA, initially as a visiting scientist at the University of Florida, Quantum Theory Project (1986-88) and as a research associate at the University of Alabama at Birmingham (1988-1990). From 1998 to 2008 he served as the director for the Computational Center for Molecular Structure and Interactions (NSF-CREST Center), and since October 2008 he has been directing the new Interdisciplinary Nanotoxicity CREST Center at JSU.

Dr. Leszczynski is a computational quantum chemist whose vast 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, and characteristics of nanomaterials. He also applies computational chemistry methods to environmental problems, surface chemistry and atmospheric chemistry. Two areas of his research contributions are the most noticeable: investigations of DNA fragments and development of novel techniques for investigation of properties and toxicity of nanomaterials. His 20 years research on DNA fragments appreciably contributes to understanding of structure and properties of DNA bases, their interactions with metal ions and solvent, formation of hydrogen bonds and stacking interactions, proton transfer, tautomeric equilibria, and excited state properties. More recent studies include also larger DNA fragments, sugar and phosphate

INVITED SPEAKERS & ORAL PRESENTERS

groups, dynamic properties, and investigations of DNA damage by low energy electrons.

The second focal point of innovative research activities of Dr. Leszczynski involves development and application of efficient methods to study nanomaterials. Due to unique characteristics of nanoparticles this task requires development of novel QSAR approaches. Such studies are also combined with detailed computational investigations of interactions of nanospecies with biological species, providing details of such interactions and bridging together two major areas of his studies.

Dr. Leszczynski has served as referee for over 50 journals (including the most prestigious such as *Nature Nanotechnology*, *Nature Chemistry*, *Proc. Natl. Acad. Sci. U.S.A.*, *JACS*, *Angew., Chem., or Chem European J.*) and has published over 700 referred papers and over 50 book chapters. His papers have been cited more than 12,000 times and according to the Web of Science his Hirsh Index amounts to 52. He is the recipient of the White House Millennium Award for Teaching and Research Excellence in Mathematics, Science, and Engineering. Other selected awards include: Member of the European Academy of Sciences 2002; Guest Professorship, Chinese Academy of Sciences, Shanghai, 2002; Honorary Doctorate, Dnipropetrovsk National University, 2003, Honorary Professorship, Wroclaw University of Technology, 2004; Member, European Academy of Sciences, Arts and Humanities, 2004; the Maria Sklodowska-Curie's Medal (Medal for prominent chemists working permanently abroad), Polish Chemical Society, 2007 and the USA Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring, 2009; Honorary Professorship, Chongqing Normal University, 2010.

Dr. Leszczynski is editor of "Structural Chemistry" (Springer), a book series: "Computational Chemistry: Reviews of Current Trends" World Scientific; Editor of a book series "Challenges and Advances in Computational Chemistry and Physics," (Springer); Series Editor for "Lecture Notes in Chemistry" (Springer), and an editor and member of editorial boards of eight journals.

Dora N. Mbanya, MD, Ph.D.

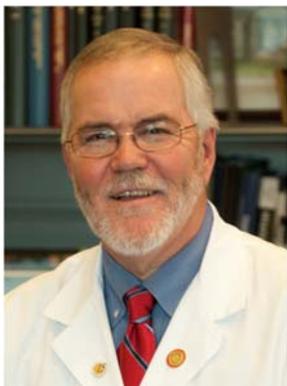


Dr. Dora Mbanya is Professor of Haematology in the Faculty of Medicine and Biomedical Sciences, University of Yaoundé I, Cameroon and Head of Department in the said structure. She is also Consultant Haematologist in the Yaoundé University Teaching Hospital, where she currently heads the Haematology and Transfusion Service. Her major interest is in Transfusion Medicine and HIV/AIDS-related issues in Sub Saharan Africa. She serves on national and international scientific committees, including the Expert Panel Committee for Blood Transfusion in the World Health Organization in Geneva, and the Working Party for Transfusion Transmissible Infections of the International Society for Blood Transfusion. She also serves on the Editorial Board of Health Sciences and Disease.

Dr. Mbanya has worked with the Cameroonian community rendering services through her membership in the Cameroon Medical Women's Association where she has held several posts in the past. She is currently the National President for the Society for Women and AIDS in Africa (SWAA) in Cameroon, where, as part of her contribution to community services, participates in reaching the community at various levels and positively impacting on their lives.

Dr. Mbanya studied Medicine at the University Center for Health Sciences (CUSS), Yaoundé, Cameroon, is holder of a "Diplôme Universitaire" (DU) in Transfusion Medicine under the University of Abidjan in Côte d'Ivoire and a Ph.D. in Medicine (Haematology) from the University of Newcastle Upon Tyne, UK.

Robert E. McGehee, Jr., Ph.D.

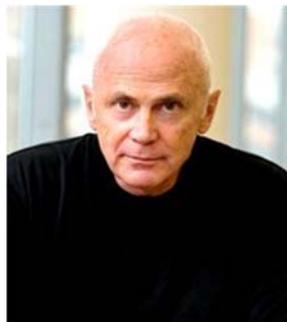


Dr. Robert E. (Bobby) McGehee, Jr., is a Professor of Pediatrics in the UAMS College of Medicine. He holds joint appointments in the Department of Physiology and Biophysics, the Department of Pathology and is the Dean of the UAMS Graduate School.

A native Arkansan, Dr. McGehee grew up in Pine Bluff and completed his Bachelor of Science in Education at the University of Arkansas, Pine Bluff in 1979. He taught high school in the Pulaski County Special School District for 6 years, leaving to attend graduate school full time at UAMS. After receiving his doctorate in physiology and biophysics, he trained from 1990-1993 as a research fellow in medicine in the Division of Endocrinology at Massachusetts General Hospital and Harvard Medical School in Boston, Massachusetts

Dr. McGehee joined the UAMS College of Medicine's Department of Pediatrics in 1993, where he continues to serve as director of basic science research in the Division of Neonatology, advising clinical fellows and mentoring junior faculty members. He also serves as the executive director of the multi-institution Arkansas Biosciences Institute. He has been continuously funded by the National Institutes of Health and his research is focused on cellular differentiation and molecular mechanisms linking Type 2 diabetes and obesity.

John A. McLachlan, Ph.D.



Dr. John A. McLachlan, received his undergraduate degree from the Johns Hopkins University where he was also co-captain of the varsity football team. He is currently the Celia Scott Weatherhead and Albert J. Weatherhead, III Distinguished Chair in Environmental Studies as well as holding joint Professorships in the Departments of Pharmacology and Ecology and Evolutionary Biology at Tulane University. From 1995 to 2012. Prior to coming to Tulane, he was Scientific Director at the National Institute of Environmental Health Sciences, NIH. While at NIEHS, Professor McLachlan developed the conceptual framework thirty years ago for what is now called *Endocrine Disrupting Chemicals*. He has published over 200 peer-reviewed papers and sixty review articles dealing with the environment and the reproductive

system and, in the process, helped introduce the concept of epigenetics to environmental research and thinking.

At Tulane, Dr. McLachlan's commitment to "use-inspired research" led him to explore community-based issues that could be approached in trans-disciplinary ways. A highlight of this effort was the use of the Mississippi River as an overarching metaphor for research and teaching. Faculty from the humanities, performing arts, natural sciences, social sciences came together around the ideas related to urban centers in river deltas. A highlight of this effort was the planning and design of *RiverSphere*, a research and cultural center located on seven acres of riverfront in the center of New Orleans.

In September 2005, Dr McLachlan confronted the aftermath of Hurricane Katrina by establishing the NSF-funded *Katrina Environmental Research and Restoration Network* to coordinate research and restoration and, since 2009, has been co-principal investigator on a multi-disciplinary NSF grant, entitled, *The "New Normal": The Impact of Trauma on Urban Ecological and Social Diversity* which studies how cities and communities function in the context of their natural ecosystems to gain a better understanding of resilience, recovery, and sustainability. His current research focuses on developing a scalable, comprehensive model integrating various environmental factors and functional change in biological systems. The goal is to provide a mechanistic model that can explain the contribution of broad environmental factors to human and community health.

Howard W. Mielke, Ph.D.



Dr. Howard W. Mielke is currently a Professor in the Department of Pharmacology, Tulane School of Medicine and the Department of Chemistry. He earned his undergraduate degree in biology, chemistry and geography at Macalester College in St. Paul in 1963 and then joined the Peace Corps for a teaching program in Malawi, Africa. He received his MS in biology and his Ph.D. in geography at the University of Michigan. He began research in urban geochemistry in 1971 while teaching at the University of California, Los Angeles, and continued his urban studies at the University of Maryland, Baltimore County, Macalester College in Minnesota, the Center for Regional and Urban Affairs of the University of Minnesota, and most recently New Orleans. His Baltimore study is recognized as

pioneering research and highlighted the need to prevent urban accumulation of toxins and to remove lead from gasoline. He has published numerous articles on the topic of metal accumulation and children's health in many cities.

Dr. Mielke joined the faculty of the College of Pharmacy at Xavier University in 1988 and became the Principal Investigator of a multimedia study of metals in urban and rural New Orleans for the Environmental Health and Toxicology Research Program with the Minority Health Professions Foundation/Agency for Toxic Substances and Disease Registry. In 2004 he undertook a pilot project for a Housing and Urban Development Lead Technical Study to Xavier University entitled "Re-Cover New Orleans" whereby clean soils were brought into severely contaminated communities of New Orleans to reduce the potential for childhood exposure to lead and other toxins that had accumulated in the soil. After Hurricane Katrina he was invited to join the faculty of Tulane University. His publications have international impact because they inform the scientific basis for proactive prevention of metal exposure. Specifically, his research influenced policy for the removal of lead from gasoline, supported revised lead laws in New Orleans, Michigan, Canada, Mexico, Peru, the European Union, as well as a soil intervention program in Norway.

Dr. Mielke is a full member of the Society of Toxicology, the Society of Environmental Geochemistry, and the American Chemical Society. In addition to research interests, he is an avid traveler, camper, birder, and sings tenor with the Symphony Chorus of New Orleans.

Lucio Miele, MD, Ph.D.



Dr. Lucio Miele, director of the UMMC Cancer Institute and Ergon Professor of Medicine and Pharmacology, received the M.D. in 1982 summa cum laude and the Ph.D. in biochemistry in 1988 summa cum laude from the University of Naples, Italy, where he served as an instructor in biochemistry. He served as a visiting fellow, an adjunct scientist and a visiting associate in the Human Genetics Branch of the National Institute of Child Health and Human Development, National Institutes of Health.

Dr. Miele joined the U.S. Food and Drug Administration as a tenure-track principal investigator in the Laboratory of Cell Biology, Division of Monoclonal Antibodies, Center for Biologics Evaluation and Research, in 1994, and served the organization as acting Chief of the laboratory from March 1997-May 1998. In May 1998, he joined the Loyola University Medical Center, Chicago, as an assistant professor in the Department of Pathology, Cardinal Bernardin

Monica M. B. Paoliello, Ph.D.



Dr. Monica M. B. Paoliello is an Associate Professor of Toxicology in the Department of Pathology, and 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), Sao Paulo. She does research in the area of Toxicology and Environmental Health. She teaches undergraduate courses (in Pharmacy and Medical School) and graduate courses (in Public Health at both masters and doctorate levels) at the State University of Londrina. She received the Senior Award from International Union of Toxicologists (IUTOX) in 2006.

Dr. Paoliello was the President of Brazilian Society of Toxicology (2006-2007). She has been a consultant at the Brazilian Agency of Health Surveillance (ANVISA) and at the Brazilian Oil Company (Petrobras).

Tiago S. Peixe, Ph.D.



Dr. Tiago Severo Peixe is a Professor of Toxicology in the Department of Pathology, and Clinical and Toxicological Analysis, Center of Health Sciences at the State University of Londrina, Paraná, Brazil. In 2010 he obtained his PhD in Toxicology and Toxicological Analysis from the Faculty of Pharmaceutical Sciences University of São Paulo (USP), São Paulo, Brazil.

Dr. Peixe is a Specialist in Occupational Health and Safety with the International (ILO) / United Nations (UN), Turin, Italy. His background is in Pharmaceutical-Biochemistry with the State University of Ponta Grossa (UEPG), Brazil. He has experience in Occupational Toxicology, specializing in environmental monitoring and biological environment work in analytical techniques and HPLC; GC; EAA; ICP.

Dr. Peixe is involved in the preparation of security documentation of chemical criteria for the Classification of Dangerous Goods in the European Community and USA. His research is in the area of Occupational Toxicology, Analytical Toxicology and Environmental Health. Currently, he teaches undergraduate courses in Pharmacy and Medical School at the State University of Londrina, Paraná, Brazil.

Joann Powell, Ph.D.



Dr. Joann Powell received her Ph.D. from Meharry Medical College in biomedical sciences, with an emphasis in pharmacology. She continued her training as a postdoctoral fellow at Emory University School of Medicine and the Winship Cancer Institute in the Department of Hematology and Oncology.

Dr. Powell joined Clark Atlanta University's Center for Cancer Research and Therapeutic Development (CCRTD) in 2010 where she also has a joint appointment in the Department of Biological Sciences. She is a member of the American Association for Cancer Research and the Society of Toxicology.

Dr. Powell's research focuses on investigating molecular mechanisms utilized by the aryl hydrocarbon receptor (AhR) to influence cancer cell progression.

Aramandla Ramesh, Ph.D.



Dr. Aramandla Ramesh is an Associate Professor in the Department of Biochemistry & Cancer Biology at Meharry Medical College in Nashville, TN. Dr. Ramesh earned his first Ph.D. in Marine Microbiology from Annamalai University, India in 1986. He earned his second Ph.D. in Environmental Toxicology from Ehime University, Japan in 1992. His areas of expertise are bioavailability, toxicokinetics, and biotransformation, acute and subchronic toxicity of polycyclic aromatic hydrocarbons (PAHs).

Current research in Dr. Ramesh's laboratory focuses on colon cancer caused by benzo(a)pyrene (BaP), a fat-soluble, widely distributed environmental chemical that belongs to the PAH family of compounds. He is focused on exposure of minority communities to environmental chemicals and health disparities. His earlier research focused on acute and subchronic toxicity of PAHs found in hazardous waste sites that were in close proximity to minority communities.

Dr. Ramesh has extensively published in environmental chemistry & toxicology (more than 50 peer-reviewed publications, and 6 book chapters). He completed 4 National Institutes of Health (NIH)-funded projects in toxicology & chemical carcinogenesis. Two more projects are in progress. He served as a consultant to the Common Wealth Foundation, UK, International Development Research Centre, Canada, and Natural Environment Research Council (NERC), UK. He is also serving as a reviewer for research proposals submitted to the NIH, Robert Wood Johnson Foundation, and NERC, UK. In addition, he serves on the editorial boards of *Toxicology Mechanisms & Methods*, *ISRN Toxicology*, and *Polycyclic Aromatic Compounds*.

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. Ray has published over 100 scientific publications including peer-reviewed manuscripts, book chapters and abstracts. He has presented over 60 seminars, lectures and courses on various topics of Nanoscience and Nanotechnology, Nanomaterial spectroscopy, Nano-Bio technology, nonlinear optics and PDT material.

Over the last decade, Dr. Ray has focused his attention on laser spectroscopy of nano-bio interface, RNA/DNA detection based on nanotechnology, Bacteria detection, Alzheimer's biomarkers detection, cancer detection, molecular level understanding of CVD process, CVD diamond, carbon nanotubes, nano particle synthesis and characterization, alternative energy source based on plasma technology, theoretical understanding of nonlinear optical process and supramolecular hydrogen bonding.

Hector O. Rubio, Ph.D.



Dr. Hector O. Rubio obtained his PhD program at New Mexico State University in 1989. He is retired of the National Research Institute of Forestry, Agriculture and Animal Production (INIFAP-Mexico). Presently, is a Professor-Researcher in the College of Zootechnology and Ecology of the Autonomous University of Chihuahua, where he is involved in different projects to determine the level of pollution in soils and water resources of Mexico.

Dr. Rubio has been an invited as professor at the Advanced Materials Research Center (CIMAV-CONACYT) since 2006.

Dr. Rubio has written four books, several book chapters and has about 50 peer-reviewed publications in different journals. He belongs to the National Researcher System of CONACYT-Mexico and is participating as a member of the biosecurity experts of the CONABIO-Mexico.

Dr. Rubio serves on the editorial boards of several journals as well as had served as reviewer of many publications. Dr. Rubio's work expertise includes head of the Department of Agriculture in the State of Chihuahua, Mexico.

Daniel Sarpong, Ph.D.



Dr. Daniel Sarpong is an enthusiastic and energetic leader, researcher, public health professional, educator and consultant with strong quantitative background and verbal skills. He is currently a Research Professor with the School of Health Sciences, Senior Biostatistician with RCMi Translational Research Network Data Coordinating Center, and Associate Director with the Center of Environmental Health at Jackson State University.

Dr. Sarpong, in 2000-2010, served in various capacities/position at the Jackson Heart Study (JHS), the largest single site epidemiological investigating the etiology and progression of cardiovascular disease in African Americans. He was Director of the JHS Coordinating Center (JHSCC), Director of Data Management, Quality Assurance, and Information Technology, Co-Principal Investigator and Senior Biostatistician of the JHSCC.

Dr. Sarpong's research interests are in cardiovascular disease & health; HIV/AIDS; Pharmacoeconomics and Outcomes Research; Statistical and Mathematical Modeling; and health informatics. The programmatic focus of his research is in the areas of large epidemiological studies and lifestyle modification intervention trials designed to mitigate health disparities. The last 12 years of his research career has been focused on translational research exploring innovative approaches to mitigating both biological and social determinants of health disparities in the areas of obesity and Type 2 Diabetes Mellitus, cancer, and drug abuse and HIV/AIDS. Professionally, he is a scientific reviewer for: 1) American Health Association, and 2) International Society for Pharmacoeconomics & Outcomes Research for conference abstracts, 3) RCMi Annual Symposia and 4) Chair of Abstract Committee for Xavier University College of Pharmacy Health Disparities Conferences; Ad-Hoc Grants reviewer for: National Institutes of Health (Cardiovascular Epidemiology), Centers for Disease Control and Prevention, and American Cancer Society; Reviewer of scientific manuscripts for: the Intl. Journal of Environmental Research and Public Health and American Heart Association, AHA Journal on Stroke; and editorial board member for Ethnicity & Disease.

Natalia Shtemenko, Ph.D.



Dr. Natalia Shtemenko, biochemist, was graduated from chemistry department, Dnipropetrovs'k National University (Dnipropetrovsk, Ukraine) in 1976. She worked for Institute of Organic Chemistry, USSR Academy of Sciences 1976-1981, Institute of Biology of Dnipropetrovs'k National University 1981-1996, from 1996 till now days she is the Head of the Department of Biophysics and Biochemistry of the Oles Gonchar Dnipropetrovs'k National University.

In 2007 – 2009, Dr. Shtemenko was a visiting Professor of Helmholtz Center for Environmental Research, Leipzig, Germany according to DAAD Grants. She is an active participant of the “NATO Science for Peace and Security Program”, in 2011 she was a Co-director of the NATO Advanced Research Workshop (ARW): “Environmental and Food Security and Safety in Southeast Europe”, Dnipropetrovs'k, Ukraine. As a Fulbright scholar in 2011-2012, she worked in the Texas A&M University (USA) in the Departments of Chemistry and Biology. She is the head of Dnipropetrovs'k department of Ukrainian Biochemical Society and a member of the International Society of Inorganic Biochemistry.

Dr. Shtemenko's research interests are in the areas of anticancer research, application of metal-organic substances in medicine, nanobiotechnology. In recent years she focused on the development of rhenium – platinum antitumor system that in an animal model completely eliminates cancer cells and shows itself as antioxidant and antihemolytic.

Kamaleshwar P. Singh, Ph.D.



Dr. Kamaleshwar P. Singh is an Assistant Professor in the Department of Environmental Toxicology and Institute of Environmental and Human Health (TIEHH), Texas Tech University at Lubbock, Texas. He received his PhD degree in Molecular Genetics from University of Delhi, India. After completing his PhD research, Dr. Singh joined University of Alabama at Birmingham as National Cancer Institute (NCI) Postdoctoral training fellow. His research interests are Molecular Toxicology, Environmental Carcinogenesis, Toxicogenomics, and Human Cancer Genomics.

Dr. Singh's current research is focused on the genetic and epigenetic bases for environmental estrogenic-chemicals and heavy metals-induced human cancers. He has published 29 research articles in peer-reviewed journals and has presented his research in several research meetings. He is a member of American Association of Cancer Research (AACR), and Society of Toxicology (SOT).

Dr. Singh has served as a panel member for review of grant applications for federal and private funding agencies and many peer-reviewed journals. Currently, he serves as an editorial board member for *PLoS ONE*, *Journal of Environmental Immunology & Toxicology*, and *Journal of Environmental & Analytical Toxicology*.

Karam F. Soliman, Ph.D.



Dr. Karam Soliman is a distinguished Professor of Basic Pharmaceutical Sciences at Florida A&M University College of Pharmacy and Pharmaceutical Sciences. He obtained his B.Sc. degree from Cairo University, and he was awarded the M.Sc. degree (1971) and the Ph.D. degree (1972) from the University of Georgia. His research interest is in the area of Neuroscience.

Among 100 Historically Black Colleges and Universities (HBCU) in the country, Dr. Soliman ranked the number one as the most Science published faculty member. His publications record includes 146 published research articles, 3 books, and 3 US Patents. He is also the nation's top trainer of African Americans holding Ph.D. degrees in Pharmaceutical Sciences. Nationwide, he was the major professor of 30% African American holding the PhD's in Pharmaceutical Sciences.

Dr. Soliman is the Principal Investigator and Program Director of NIH grant to support the FAMU-Pharmacy Research Center in Minority Institution (RCMI). In 2012, he received a center P20 Grant over five years from the National Institute on Minority Health and Health Disparities. This grant is entitled: "Center of Excellence for Cancer Research, Training and Community Service". His research has been supported by grants from NIH, NASA, Office of Naval Research and Department of Energy. During his tenure at FAMU, he was awarded federal grants totaling over \$ 64 million.

Dr. Soliman is an active member of American Physiology Society (APS), American Society for Pharmacology and Experimental Therapeutics (ASPET), Endocrine Society, and the Society for Neuroscience.

Herman A. Taylor, M.D.



In his current role, **Dr. Herman A. Taylor** reports directly to the chief executives of the University of Mississippi Medical Center, Jackson State University and Tougaloo College - the 3 institutions participating in the Jackson Heart Study. This tri-institutional research, teaching and service enterprise is the hub of an expanding multidisciplinary collaborative network, with the daily involvement of students, trainees, and investigators from across the US and beyond. In addition to career scientists, clinicians, trainees and students involved in the JHS, there is an active community engagement unit involved in cohort retention, health literacy, translation of health information to the public, and practice community and the development of a network of community health workers. Thus the JHS is an expansive, multifaceted project enduring now for over 12 years.

Key administrative units of the Study include Data Acquisition; Data Analysis; Data Management, Quality Assurance and IT; Surveillance and Events Monitoring; Education and Training; Community Partnership - each headed by an Associate Director of the JHS. A Chief Administrative Officer and a Chief Science Officer have recently been recruited to augment the administrative team reporting to Dr. Taylor.

The Study has received continuous funding since 1999 and has been the stimulus for numerous ancillary studies (R01's, U01, R21's, K awards, Diversity Supplements, etc.). Through its training programs it has helped develop a diverse group of young scholars focused on medicine, public health sciences and research.

Billy Thomas, MD



Dr. Billy Thomas is a Neonatologist at the University of Arkansas for Medical Sciences (UAMS) and serves as the Vice Chancellor for Diversity and Inclusion in the Center for Diversity Affairs in the College of Medicine.

Dr. Thomas earned his Medical Degree at UAMS in 1980. He completed his internship and residency training in Pediatrics at the University of Arkansas for Medical Sciences/Arkansas Children's Hospital. He subsequently completed a fellowship in Neonatal/Perinatal medicine at Case Western Reserve/Metropolitan General Hospital and later received a Master's in Public Health from the Tulane School of Public Health.

Dr. Thomas combines an active clinical practice with his administrative duties as Vice Chancellor for Diversity and Inclusion in the Center for Diversity Affairs. His clinical service is primarily inpatient and focuses on the care of critically ill neonates. In addition to his clinical responsibilities he teaches and mentors not only students and residents but also junior faculty.

As Vice Chancellor of Diversity and Inclusion he is involved with all aspects of the Center which includes recruitment and retention of minority students and the development of academic enrichment programs for students from K to the undergraduate level. The overall goal of ALL programs is the diversification of the health care work force and ultimately the reduction of health care disparities.

His community involvement ranges from organizing and participating in multiple health fairs to hosting a weekly radio program. Starting in April of 2001 Dr. Thomas hosted a call-in radio program called "Feeling Good with Dr. T". The program focused on health problems of African-Americans and other minorities with commentary by local health care experts.

Francis Tuluri, Ph.D.



Dr. Francis Tuluri is currently serving as the Professor and Interim Chair in the Department of Technology. He joined Jackson State University in 2001, and worked as a visiting Professor in the Department of Physics, Atm. Sci. & Geo Science until 2007. He has over two decades of outstanding experience in teaching and research. During this time, he has taught a wide range of courses such as Electronics, Solid State Electronics and Devices, Physics (Calculus based and Algebra based), Solid State Physics and Materials Science, Physical Science, Engineering Physics, Math, and Computer Programming. His current areas of research include Electronics Instrumentation and microcontroller data acquisition; Air quality modeling, optically induced liquid crystal display devices and materials; and 2D NMR imaging for diffusion in polymer electrolyte fuel cell membranes.

Recently, Dr. Tuluri's has worked in collaboration with Virginia Tech, Virginia, under a grant by American Chemical Society Petroleum Research Fund Summer Research Fellowship, 2008, and as University Scholar of 2009. The research work involves the study of two dimensional nuclear magnetic resonance spectroscopy, to understand solute morphology and transport in polymeric fuel cell materials. The work was carried out in the NMR laboratories of Dr. Louis Madsen, Department of Chemistry, Virginia Tech as a part of collaboration with Jackson State University. Furthermore, he is a collaborator with Professor Noel Clark, University of Colorado, Boulder.

Dr. Tuluri is also developing collaboration with the Condensed Matter Research Group, Boulder and to induct Jackson State University under Institute of for Complex Adaptive Matter (ICAM_I2CAM).

Mohammad N. Uddin, Ph.D.



Dr. Mohammad Nasir Uddin is an Assistant Professor in the Department of Obstetrics and Gynecology at Texas A&M Health Science Center College of Medicine at Scott & White Healthcare.

Dr. Uddin obtained his bachelor's and master's degrees in biochemistry & molecular biology from the University of Dhaka in Bangladesh. He earned his PhD at Gifu University in Japan. He was a recipient of the Japanese Society for Promotion of Science Fellowship for his postdoctoral research. He served intermittently as a faculty member up to an associate professor for 12 years at University of Dhaka. Besides his primary position at TAMHSC/COM, currently he holds positions as adjunct faculty in the Texas Bioscience Institute and a Staff Scientist at Scott and White Memorial Hospital, Temple, TX.

Dr. Uddin is an accomplished scientist with a research interest in translational medicine. He is currently leading an independent research group consisting of medical students and residents and research associates.

Dr. Uddin's work centers on the pathogenesis of hypertension especially on the pregnancy-induced hypertension, preeclampsia, and the potential role of cardiotoxic steroids in this condition.

Dr. Uddin's published work includes more than 100 peer reviewed articles on a variety of subjects, primarily related to the renin-angiotensin system and preeclampsia. Other areas of publication include diabetes mellitus and the identification and actions of a number of naturally derived substances.

Wendy White, Ph.D.



Dr. Wendy Brown White graduated from Mississippi Valley State University with a B. S. in Biology and a minor in Chemistry. She graduated in the inaugural MPH class at Jackson State University in 2001 and received her PhD in Environmental Science from JSU in May 2009.

Dr. White was the first student to intern at the Jackson Heart Study where she has been employed since 2002. She is also the Tougaloo Coordinator for the MPH Early ID Program with Brown.

In this position Dr. White coordinates campus activities related to all aspects of public health, including identifying funding and summer research opportunities for public health students.

Clement G. Yedjou, Ph.D.



Dr. Clement G. Yedjou is an Assistant Professor/Distance Learning Program Coordinator at Jackson State University. He completed his postdoctoral training in the Cellomics and Toxicogenomics Research Laboratory. His research interest focuses in the field of Pharmacology, Toxicology, and Therapeutics. His current research focuses on the following aspects: (1) Preclinical assessment of physiologic doses of ascorbic acid in combination with pharmacologic dose of arsenic (Trisenox) for the management of acute Promyelocytic Leukemia (APL) and other malignancies; (2) Basic and translational studies of ascorbic acid and arsenic trioxide effects on tumor metastasis; (3) Role of host immune system in ascorbic acid treatment; (4) Mechanisms of action of ascorbic acid when combined with arsenic trioxide for the treatment of APL patients; and (5) Preclinical assessment of *Vernonia amygdalina* leaf extracts as anti-cancer agent in the management of human breast cancer.

Dr. Yedjou has, so far, published 32 peer-reviewed articles in prestigious journals such as *Cellular and Molecular Biology*, *Metal Ions in Biology and Medicine*, *Environmental Toxicology*, *Molecular and Cellular Biochemistry*, *Biochemical and Molecular Toxicology*, *Archives of Drug Information*, and presented his research over 40 national and international symposia. He is a co-author of a book chapter entitled “Environmental pathology and health effects of arsenic poisoning”; an editorial board member of the *Environmental Toxicology* and a reviewer of many international journals including the *International Journal on Environmental Research and Public Health*, and *McGraw Hill of High Education textbooks*. Many of his research publications have been reported and highlighted in **NewsRx**, a highly acclaimed medical journal, and the Nigerian Tribune.

Dr. Yedjou currently serves as a Project Collaborator on two major grants and as a PI in one funded by NIH. He is affiliated with numerous professional scholar organizations including the American Association for Cancer Research; Marquis Who’s Who in American, Phi Kappa Phi National Honor Society, Empire Who’s Who Registry of Executives and Professionals. He is actively involved in Distance Learning Education and recently published his first Distance Learning peer-reviewed article in the *Online Journal of Rural and Urban Research*.