

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). She joined the World Health Organization in 1996 and has been WHO Representative since 1998, having served in the Seychelles, Mali and Zambia before arriving South Africa.

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

Bioanalysis (ABB) Certified Andrologist.

Dr. Archibong's expertise is in mammalian reproductive biology. He is particularly interested in the adverse effects of environmental pollutants/therapeutic agents on the hormones that regulate male and female gonadal function. As a trained gamete scientist, he is also interested in gamete interaction and preimplantation embryo development.

Dr. Archibong is in his 17th and 18th year membership in the American Society for Reproductive Medicine and the Society for the Study of Reproduction, respectively. He served on the Editorial Boards, of Biology of Reproduction, Archives of Andrology and Advances in Reproduction and had served as a reviewer for the Journal of Animal Science. He is currently a reviewer for Biology of Reproduction, Theriogenology, Fertility Sterility, Journal of Endocrinology and Asian Journal of Andrology. Dr. Archibong is on his twelfth 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 profession in Biomedical Sciences. He served as the Chairman of this committee in 1988. He has served two terms in the UDSA Animal Reproduction Study Panel. He holds a United States Patent US5439884 based on his discovery of the action of bombesin-like peptides on human sperm acrosomal status.

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 bachelor (1993) and master degrees (1996) from Bogazici University in Istanbul Turkey and doctorate 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 he 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.

Mehmet Ates, Ph.D.



Dr. Mehmet Ates is an Assistant Professor at the Department of Basic Sciences, Faculty of Fisheries Sciences at Tunceli University. He is also chair Inland Water Biology division at the same university. He has received his bachelors in agriculture from Ankara University in 1999. He received his masters (2002) and doctorate (2008) in fisheries and aquaculture from Ankara University in Turkey.

Dr. Ates has been involved in the development of aquaculture in Turkey since 2002. His research activities mainly focus on the environmental issues related with aquatic species such as fish, artemia, and phytoplankton and aim to provide and understating of the toxic materials on fish and aquatic organisms.

Dr. Ateş has been working as a post-doctoral research associate in NIH-RCMI program at Jackson State University in area of nanotoxicity using animal models and aquatic species. He has published several papers in peer-reviewed journals.

Jorge L. Ble-Castillo, Ph.D.



Dr. Jorge Luis Ble-Castillo is a Professor of Biochemistry in the Juarez Autonomous University of Tabasco and a Clinical Researcher at the General Hospital 46 of the Mexican Institute for Social Security.

Dr. Ble-Castillo received his undergraduate training in Clinical Biochemistry at National Autonomous University of Mexico and the Ph. D. degree in Medicine Research of the Superior Medicine School, National Polytechnic Institute. He participates in the teaching of biochemistry to medical and graduate students.

Dr. Ble-Castillo's research interests are in the areas of biomedical research with special emphasis on oxidative stress, antioxidants, and metabolism alterations in chronic diseases. His current research involves investigations on the effects of banana resistant starch on rodents with diabetes and in patients with obesity and diabetes.

Additional interests include the study of metabolic alterations including oxidative stress in patients with obesity, metabolic syndrome and type 2 diabetes.

Corneliu Bogatu, Ph.D.



Dr. Corneliu Bogatu has been senior researcher at National Research and Development Institute for Industrial Ecology, in Timisoara, Romania. His research interests are referring to the investigation of separation and oxidation processes for pollutants removal from water, waste water and soil remediation.

In the field of water treatment, both as key person and project director, he investigated hydrolysis of inorganic complex coagulants, their use to enhanced coagulation for the removal of organic compounds from water, advanced oxidation of refractory aromatic pollutants, like phenols derivatives and azo-dyes with Fenton reagent, chlorine dioxide and ozone.

In the field of soil remediation, Dr. Bogatu was studying phytoremediation and electro-remediation of soils polluted with heavy metals. He owns three patents, devoted to new methods for natural waters treatment. Also, he is the author and co-author of 44 papers published in journals and 25 papers in proceedings of international conferences.

Currently, he is a researcher at Jackson State University involved in research concerning reactivity and toxicity of carbon nanomaterials in aqueous media.

Gloria M. Calaf, Ph.D.



Dr. Gloria Calaf is a full Professor at the Instituto de Alta Investigación, Arica, Chile and Adjunct Associate Research Scientist at Columbia University Medical Center of New York. She received her MS and PhD degrees in Biological Sciences at Michigan State University, East Lansing, Michigan. After completing her PhD research, she joined Michigan Cancer Foundation in Detroit, then Fox Chase Cancer Center in Philadelphia, PA and afterwards Columbia University in NY. 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 oxidative stress and genomic instability in breast tumorigenesis. She has published 90 research papers in peer reviewed journals and has presented her research in several conferences, symposiums and workshops. She is a member of American Association for Cancer Research, Tissue Culture Association, New York Academy of Sciences, International Association for Breast Cancer Research, among others.

Dr. Calaf has served as reviewer for many peer-reviewed journals as well as Chilean and American grants as FODECYT and AVON. She is currently in charge of a Biology of Cancer laboratory at Tarapacá University in Arica, Chile.

Brenda W. Campbell-Jenkins, Ph.D.



Dr. Brenda W. Jenkins is an Investigator with the Jackson Heart Study, Jackson, Mississippi, the largest epidemiological study of cardiovascular disease in African-Americans ever conducted. At the Jackson Heart Study, she facilitates the efforts of the Jackson Heart Study scientists through the development of the study protocol and implementing monitoring procedures throughout the study. She serves as Co-chair of the JHS IRB adherence Subcommittee. 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 with an interest in the elimination of childhood obesity in the great state of Mississippi. She has a Masters of Public Health (MPH) with concentration in Health Promotion and Education, and a Doctor of Philosophy in Education Leadership.

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). He 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.

Asok K. Dasmahapatra, Ph.D.



Dr. Asok Dasmahapatra is an Associate Professor of Pharmacology in the Department of Pharmacology, and a Senior Research Scientist at the National Center for Natural Product Research at the School of Pharmacy of the University of Mississippi, University, Oxford, Mississippi, USA. He holds a B.Sc. (Honours), M.Sc. degrees in Zoology from the University of Burdwan, West Bengal, India and Ph. D. Degree in Zoology from of the University of Calcutta, West Bengal, India. He had postdoctoral training at the Department of Chemistry, Florida State University, Tallahassee, Florida, USA, Department of Gastroenterology, Medical College of Wisconsin, Milwaukee, Wisconsin, and in the Department of Biological Sciences, University of Wisconsin-Milwaukee, Milwaukee, Wisconsin, USA. He also worked at the Center for Great Lakes studies at the university as a

Research Specialist.

Dr Dasmahapatra's research interests are mainly focused on Toxicology, Endocrinology and Molecular Biology. He is currently concentrated on Developmental Toxicology focusing on Fetal alcohol syndrome (FAS) and looking for the genes responsible for these developmental disorders. He is now mentoring graduate students who are searching a natural product that can prevent FAS.

Dr. Dasmahapatra published fifty seven scientific papers in peer-reviewed journals and three book chapters. He is also on the Editorial Board member of the Journal "Reproductive Biology and Endocrinology."

Venkata B. Dodla, Ph.D.



Dr. Venkata Dodla is presently working as a Visiting Professor at the Trent Lott Geospatial and Visualization Research Center, Jackson State University since February, 2009. He received his Ph.D. in Meteorology from Andhra University (India) in 1976. He worked at the Department of Meteorology and Oceanography, Andhra University during 1976-2008 as a teaching faculty and in various other capacities including the Chair of the Department. His research interest focuses the development and application of atmospheric models for weather and climate studies. He made significant contributions in the research with high resolution mesoscale atmospheric models (such as MM5 and WRF) for studies on tropical cyclones, monsoon climate, planetary boundary layer and atmospheric dispersion. His current

research focuses on the following aspects: (1) integrated weather prediction-atmospheric dispersion models for air quality studies; (2) analysis and simulation coastal boundary layer circulations; (3) computation of high resolution mesoscale climatological parameters through dynamical downscaling and (4) improvement of high resolution numerical models for simulation of hurricanes.

Dr. Dodla worked as Visiting Scientist at various institutions in Japan, Europe and USA which include the prestigious JSPS and STA Fellowships in Japan; DAAD Fellowship in Germany, ICTP Fellowship in Italy and Florida State University, USA. He has more than 100 research publications and authored one book and contributed chapters in 4 books. He is a recipient of honors such as Dr .B. N. Desai award from Indian Meteorological Society; Best Researcher and Dr. Radhakrishnan Academician Award from Andhra University. He is a Fellow of the Indian Geophysical Union and A. P. Akademi of Sciences. He is currently working on the application of high resolution WRF model for integration with HYSPLIT dispersion model and WRF/Chem model for studying air quality over Mississippi Gulf coast region under NOAA ADP program at TLGVRC, Jackson State University.

Falicia L. Edwards, Ph.D.



Dr. Falicia L. Edwards is currently working as an Assistant Professor of Biology in the Natural Science Division at Tougaloo College, Tougaloo, MS. She received her B.S. degree in Biology from Delta State University in 1994. She received her M.S. degree from Mississippi Valley State University in Environmental Health in 2002, a Ph.D. in Environmental Science [Major concentration: Cellular and Molecular Toxicology] from Jackson State University in 2009. In the meantime, she became a certified as a Registered Environmental Manager (REM) through the National Registry of Environmental Professionals (NREP).

Dr. Edwards also worked in the area of nutrition investigating the cellular and molecular role of soy and other botanicals such as policosanol on cholesterol levels in mice and in HepG₂ cells at Northern Kentucky University. She was recently hired at Tougaloo College as a Research Infrastructure for Minority Institutions (RIMI) faculty member to conduct research in the area of health disparities.

Dr. Edwards has published several research papers in reputed international peer-reviewed scientific journals, and has presented her research findings in several conferences in the form of lectures and posters. Her main area of research is investigating the cellular and molecular toxicology of pesticides. She has mentored several research students and assisted them in obtaining grants to conduct research under her. She is an editorial board member of the Journal of Environmental & Analytical Toxicology (OMICS Publishing Group, Los Angeles, CA) and numerous professional organizations.

Jesse Edwards, Ph.D.



Dr. Jesse Edwards, a native of Randallstown, Maryland, received his bachelor's degree in Chemistry from Morehouse College with honors. He went on to become the first African American to earn a Ph.D. degree in Theoretical Chemistry from Michigan State University. At that time he was the only African American to earn a Ph.D. in Theoretical Chemistry in the United States. In fact, Dr. Edwards was only the second African American to earn a doctorate degree in Chemistry from Michigan State University over a 26 year period.

Dr. Edwards completed his doctoral work under the direction of Dr. James Harrison studying the electronic structure and geometry of small transition metal containing molecules bonded to main group elements. Also, Dr. Edwards served as a Visiting Instructor before leaving Michigan State for a position as an Assistant Professor of Chemistry at Florida A&M University in Tallahassee, Florida.

While at Florida A&M University the focus of Dr. Edwards' research has changed to larger systems and expanded to include the use of Molecular Dynamics methods in drug discovery, modeling and protein dynamics. In 2005 he was selected by NOBCCChE as the Henry C. McBay Outstanding Teacher. Dr. Edwards is the author of 9 scientific journal and proceedings articles, and a Principal Investigator or Co-Principal Investigator for several grants including the Army High Performance Computing Research Center, the USDA Center of Excellence, NIH RCMI program and many others.

Recently Dr. Edwards completed a sabbatical leave at University of California at Santa Barbara (UCSB) Materials Research Laboratory (MRL) and currently serves on the Technical Advisory Board of Ubiquitous Technologies, Inc. He also is an active volunteer within his community.

Jimmy T. Efird, Ph.D.



Dr. J. T. Efird completed his Doctorate in Epidemiology at Stanford University School of Medicine. He has over 25 years of experience in the field of biomedical research, having worked at Massachusetts General Hospital (Harvard Medical School), UCSF School of Medicine, and Stanford University School of Medicine.

Dr. Efird is currently a Visiting Associate Professor at the University of North Carolina Center for Health of Vulnerable Populations, located in Greensboro, NC. He has served as Director of the RCMI Biostatistics Facility at the John A. Burns School of Medicine, Honolulu, Hawaii, where he also headed the Shared Resources Unit for the Hawaii EXPORT Center (diabetes disparities and associated complications in Native Hawaiians and Pacific peoples).

Dr. Efird continues to serve as Statistical Director/Consultant for the PILI Ohana Program (Partnerships to Overcome Obesity Disparities in Hawaii). He has over 90 publications in scientific journals and proceedings and serves on the editorial board of four journals.

P. Ekambaram, Ph.D.



Dr. P. Ekambaram has more than ten years of research career in the area of molecular toxicology, Animal biotechnology, behavioral pharmacology and teaching experience for ten years. He found that Calcium supplementation can prevent fluoride induced toxicities in rats.

Dr. Ekambaram's research includes molecular cloning and functional characterization of HP0232 gene from *Helicobacter pylori* during his postdoctoral research at National Tsing Hua University, Taiwan. He has valid international and national publications of 12 papers and has attended several International symposium and conference both inland and abroad.

Dr. Ekambaram's current ongoing projects include: Combined therapeutics research for cancer disease, Tamarind pulp, seed coat's effect on fluorosis treatment, Nanotoxicology research with metaloxide nanoparticle using mice and zebrafish models, Zebrafish developmental toxicity-embryogenesis studies, Nanodrug delivery for PCOS, and "Effects of tamarind seed coat extract on fluoride induced apoptosis in MRC-9 cells" funded by UGC, India. Amount sanctioned is Rs.11, 23,800 for the period of three years with effect from 01.02.2010.

Ebenezer Olatunde Farombi, Ph.D.



Professor 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 Department of Biochemistry, University of Liverpool, UK and also at the Institute of Food Safety and Toxicology, Copenhagen, Denmark. He was visiting scientist and Guest lecturer at the Institute of Public Health, University of Copenhagen (2002) and Institute of Environmental and Occupational Medicine, University of Aarhus, Denmark (2002). He was Visiting Professor to the National Research Laboratory for Molecular Carcinogenesis and Chemoprevention, Seoul National University, Seoul, South Korea and also to the Department of Nutritional

Toxicology, Institute for Nutrition, Friedrich-Schiller University of Jena, Jena, Germany.

Professor Farombi's research interests are on *Molecular Toxicology, Cellular oxidative stress mechanisms, Antioxidant pharmacology, Pharmaceutical indications of nutraceuticals as prophylactic agents, Nutrigenomics as well as Natural product Biotechnology*. He is currently mentoring graduate students and young Faculty members on the Molecular Mechanisms of Cancer Chemoprevention by natural products with emphasis on Signal Transduction Network.

Professor Farombi 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. In July 2008 at the 7th International Conference of the Society for Free Radical Research, in Mauritius, he was unanimously elected the Vice-President of the Society for Free Radical Research (SFRR)-Africa. He has published over 80 scientific papers in international peer reviewed journals and has recently edited a book titled "*Nutritional Antioxidants in Cancer and Degenerative Diseases*" with contributors from Nigeria, Cameroon, USA, Mauritius, South Africa, Japan and Denmark. A Fellow of the Royal Society of Chemistry (Cambridge, UK), Professor Farombi is on the Editorial board of many international journals.

M. Moreno Godinez, Ph.D.



Dr. Ma. Elena Moreno Godínez is currently Professor in the Faculty of Chemical and Biological Science of the Guerrero Autonomous University in the Guerrero State, Mexico. She received her Ph.D. in Toxicology from the CINVESTAV, Mexico in 2010, where she studied the toxicity of heavy metals in children exposed in a zone mining, specifically focusing on the immunotoxic and genotoxic effects. She teaches graduate courses (Biomedical science program - master degree) at the State University of Guerrero. She is heading of Toxicology and Environmental Health Laboratory of Guerrero Autonomous University.

Dr. Moreno Godínez's research interests include the genetic toxicology of organophosphates and pyrethroids pesticides and its toxic effects. His laboratory also studies, genetic and environmental factors associated with cleft lip and palate in children affected. Among genetic factors, several polymorphisms have been studied, such as, polymorphisms related to folate metabolism (C677T and A1298C MTHFR gene) and polymorphisms in genes that allow the detoxification of pesticides (Q192R and L55M PON1 gene).

Pertti (Bert) Hakkinen, Ph.D.



Dr. Pertti (Bert) Hakkinen is the Senior Toxicologist and Toxicology and Environmental Health Science Advisor in the Division of Specialized Information Services, National Library of Medicine (NLM), (U.S.) National Institutes of Health (NIH). He provides leadership on the development of new resources in toxicology, exposure science, and risk assessment, and enhancements to existing NLM resources in these fields. Dr. Hakkinen is the project leader for the Wireless Information System for Emergency Responders (WISER) and Chemical Hazards Emergency Medical Management (CHEMM) tools, represents NLM on various committees, and provides leadership for NLM's participation in national and international efforts in toxicology-, exposure-, and risk assessment-related information. He also is the co-

director of a public health informatics course offered since 2009 at the Uniformed Services University of the Health Sciences (USUHS) in Bethesda, Maryland, and is the Vice-chair of the Scientific Advisory Panel for the Mickey Leland National Urban Air Toxics Research Center (NUATRC) in Houston, Texas.

During his career Dr. Hakkinen has held numerous leadership positions in the field of toxicology and risk assessment. Before joining the NIH in 2008, Dr. Hakkinen served for several years on the auxiliary staff of the European Commission (EC) at the EC's Institute for Health and Consumer Protection, Joint Research Centre, in Italy. He has also held positions with Toxicology Excellence for Risk Assessment (TERA) and Gradient Corporation in the U.S. and at the Procter and Gamble Company in the U.S. and Japan.

Dr. Hakkinen earned a B.A. in Biochemistry and Molecular Biology from the University of California, Santa Barbara, and received his Ph.D. in Comparative Pharmacology and Toxicology from the University of California, San Francisco. Dr. Hakkinen is a member of the Society of Toxicology (SOT) and a charter member of the Society for Risk Analysis (SRA) and the International Society of Exposure Science (ISES). He is a co-editor and co-author of the latest edition of the Encyclopedia of Toxicology, and of the last two editions of the Information Resources in Toxicology book. Dr. Hakkinen has authored and co-authored numerous other publications.

Fengxiang X. Han, Ph.D.



Dr. Fengxiang X. Han is an assistant professor in Department of Chemistry and Biochemistry at Jackson State University. Dr. Han received Ph.D. in Biogeochemistry from Hebrew University of Jerusalem, Israel in 1998. He has been an Associate Research Professor in the Institute for Clean Energy Technology at Mississippi State University since 2007.

Dr. Han's major research focuses are biogeochemistry and environmental chemistry of trace elements, heavy metals and radionuclides, bioremediation/phytoremediation of polluted soil, water, and wastes; surface chemistry of clay minerals; carbon sequestration and global warming.

Dr. Han has been on the editorial boards of three international environmental science journals: *Water Air and Soil Pollution*, *Soil and Sediment Contamination* and *Journal of Bioremediation & Biodegradation*. He was a co-Chair of Environmental Science Working Group of James Worth Bagley College of Engineering, Mississippi State University from 2004 to 2011 and was a member of Organization Committee on International Workshop on Carbon Sequestration and Climate Change Mitigation in Agriculture, 2008, Nanjing, China.

Dr. Han has published more than 140 referred papers, book chapters, and proceedings and conference presentations. He has obtained one U.S. provisional patent on remediation of trace element and heavy metals. In 2007, he published a book entitled *Biogeochemistry of Trace Elements in Arid Environments* by Springer.

Aage Haugen, Ph.D.



Dr. Aage Haugen is the Research Director at National Institute of Occupational Health, Section of Toxicology. He also holds an appointment as professor at Institute of Biotechnology, Norwegian University of Science and Technology. He received his Ph.D. degree from University of Bergen, and completed a postdoctoral training at US National Cancer Institute at the Laboratory of Human Carcinogenesis.

Dr. Haugen has devoted his research efforts on molecular mechanisms of lung carcinogenesis with special emphasis on genetic susceptibility to lung cancer. This has resulted in over 150 peer-reviewed publications.

Sandra Hayes, Ph.D.



Dr. Sandra Hayes currently serves as director of the newly established Central Mississippi Area Health Education Center (Central MS AHEC), which is housed at Tougaloo College. The mission of Central MS AHEC is to increase access of primary care to rural and underserved citizens of the state through the recruitment and retention of a culturally sensitive health care workforce.

As an epidemiologist, Dr. Hayes is fascinated with the underlying social factors that drive health outcomes. She has published several manuscripts including one published in the *Journal of Health Management and Practice* in March 2009. The article entitled, “Social Inequities in Mississippi: A Call to Action” discusses how adverse health outcomes are often influenced by social factors.

Dr. Hayes received her Bachelor of Science degree in Biology from Tougaloo College; Master’s of Public Health in Epidemiology and Ph.D. from Jackson State University. Her doctoral thesis explored factors related to asthma prevalence among children in the Medicaid population.

Md. Alamgir Hossain, Ph.D.



Dr. Alamgir Hossain is an associate professor of chemistry at Jackson State University. Dr. Hossain 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.

Dr. Hossain has published about 60 research articles, and several review articles and book chapters. His research 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.

Ali B. Ishaque, Ph.D.



Dr. Ali Ishaque is an Associate Professor of Environmental Science at University of Maryland Eastern Shore (UMES), Princess Anne, MD since August 2005. He is also the coordinator of the Graduate Toxicology Program, Coordinator of UMES-Salisbury University (SU) Environmental Science Dual Degree Program and Group Leader for Environmental Science at UMES.

Prior to UMES in August 2001, Dr. Ishaque was a Post-doctoral Research Associate at Free University of Brussels (VUB), Belgium and at Jackson State University (JSU), Jackson, MS.

Dr. Ishaque is a member of American Association for Advancement of Cancer Research (AACR) and American Association for the Advancement of Science (AAAS). His current research interest is in chemical mixtures of environmental relevance and cancer susceptibility.

Dr. Ishaque has published several scientific papers in peer review journals and presented some of his work at national and international scientific meetings.

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 and 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.

Dr. Landolph's 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.

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 NIH. 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).

Jae Eun Lee, Ph.D.



Dr. Jae Eun Lee is the RCMI Translational Research Network, Data and Technology Coordinating Center Director of Biostatistics. He completed his doctoral degree in quantitative research method from Tulane University and took his postdoctoral training in Harvard School of Public Health. Prior to joining DTCC in 2008, he was a scientist of the department of research at Methodist Rehabilitation Center, an office director of decision science in Mississippi State Department of Health, and an assistant professor of professional study in Dental School of University of Nevada at Las Vegas.

Currently Dr. Lee is actively involved in several clinical trials and population-based epidemiology studies to which he is contributing his biostatistical skills and knowledge on research methodology. He has served as an editorial consultant for Journal of Drug Education and Journal of Correctional Health Care. His expertise is in study design, parametric and nonparametric longitudinal data analysis, latent variable analysis, outcome measurements, medical decision analysis, and Rasch psychometric analysis.

Dr. Lee's research interest is in college students' risk behavior, clinical trials, cardiovascular disease, quality of life research, and evaluation of health program.

Dong Liang, Ph.D.



Dr. Dong Liang is a Professor and Chair in the Department of Pharmaceutical Sciences at Texas Southern University College of Pharmacy and Health Sciences. He received his B.S. degree in Pharmacy from Zhejiang University in China in 1985 and Ph.D. degree in Pharmaceutics from University of Houston in 1995. Shortly after graduation, he joined Mylan Pharmaceuticals Inc. as a Research Scientist where he managed over 35 generic drug development activities including dosage formulation design, analytical method validation, and clinical Phase I, II, and III trials.

Dr. Liang continued his research after joining the faculty at Texas Southern University in 1998. His research on parenteral and oral formulations of benzimidazoles received U.S. Patent approval in 2008. A continuation patent was filed subsequently using novel nanotechnology dosage formulation design. He also has a provisional U.S. Patent application entitled “Injectable formulations of Itraconazole”. Dr. Liang’s research interest is novel drug delivery and pharmacokinetic evaluation of drug-drug interactions.

Currently, Dr. Liang has an ongoing DoD funded project entitled “Predictors of Survival: Chemotherapy in Ovarian Cancer”, where he is investigating pharmacogenetics of ovarian cancer clinical outcomes from patients receiving chemotherapy treatments. He is a recipient of 2011 American Association for Cancer Research Faculty Scholar in Minority Institution award. He has published 22 peer-reviewed research papers. He is also the Program Director of the RCMI program at Texas Southern University.

Dora N. Mbanya, MD, Ph.D.



Dr. Dora Mbanya is Associate Professor of Haematology in the Faculty of Medicine and Biomedical Sciences in the University of Yaoundé I, Cameroon, and Consultant Haematologist in the University Teaching Hospital in Yaoundé, Cameroon. 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 and is a member of several professional societies.

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.

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 Cancer Center, and director of DNA Sequencing and Recombinant DNA Laboratory and Proteomics Laboratory, Molecular Pathology Research Facility, Department of Pathology.

Dr. Miele became an associate professor of Pharmacology at the University of Illinois at Chicago in August 2001, and became director of the Molecular Pathogenesis and Signaling Program at the UIC Cancer Center in 2003. He returned to Loyola in 2005 as Professor of Pathology and Pharmacology and director of the Breast Cancer Research Program at the Bernardin Cancer Center. He became Associate Cancer Center Director for translational science at the Bernardin Cancer Center in 2007.

Dr. Miele has served in a number of administrative and scientific leadership positions, including Chair of CBER scientists at FDA, Director of the Cell Signaling Program at the UIC Cancer Center and Associate Director for Translational Science at the Cardinal Bernardin Cancer Center. Widely published in peer-reviewed publications, Miele serves as a referee or study section Chair for many journals and U.S. and international granting agencies (NIH, NCI, NCR, DOD, NCIC (Canada), the Wellcome Trust, the Breakthrough Foundation and Cancer Research UK (UK), NCBS (India) and AIRC (Italy).

Dr. Miele served as an assistant editor of the Women's Oncology Reviews, and serves as associate editor of the Journal of Cellular Biochemistry and Current Molecular Medicine, The American Journal of Cancer Research, and executive editor of the Americas for the Journal of Experimental Clinical Cancer Research. He also serves as Co-Chair of the CTEP (Cancer Therapeutics Evaluation Program) task force on cancer stem cell therapeutics for the National Cancer Institute.

Susanne B. Nicholas, MD, MPH, PhD, FASN



Dr. Susanne B. Nicholas is an Associate Professor of Medicine, UCLA Department of Medicine. She is a board certified Nephrologist and Hypertension Specialist. She has a joint appointment in the Division of Nephrology, where she maintains her clinical responsibilities, and the Division of Endocrinology, Diabetes and Hypertension, where she conducts her research. Academically, she is Assistant Director of the UCLA Nephrology Training Program and the UCLA Nephrology Scientific Training and Advanced Research Coordinator. She also has a joint appointment at Charles R. Drew University of Medicine and Science where she is Co-Director of the Technology Core. She has received diplomas from the International Society of Stereology for training in stereology. Her primary work in basic science involves investigating the pathophysiologic mechanisms and morphometric analysis of diabetic nephropathy with the goal of finding novel therapeutic targets. Her current work, in collaboration with the California NanoSystems Institute, involves the engineer of vault nanocapsules for drug delivery in the treatment of type 1 and type 2 diabetic nephropathy and other kidney diseases.

As Principal Investigator of the UCLA participating center of the nation-wide Family Investigation of Nephropathy in Diabetes study, Dr. Nicholas is involved in a clinical genetic study that investigates susceptibility genes for diabetes and their linkage relationships to nephropathy and retinopathy in Mexican Americans and African Americans. She is well published and sits on several grant review committees.

Dr. Nicholas is the current President of the Medical Advisory Board Executive Committee and the Supervising Physician for the Kidney Early Evaluation Program of the NKF Southern California Affiliate. She is also an active member of Sigma Xi Scientific Research Honor Society and recently received the 2010 Minority Access, Inc. National Role Model Faculty Research Award.

Gilbert S. Omenn, MD, Ph.D.



Dr. Gilbert S. Omenn is Professor of Internal Medicine, Human Genetics, Public Health and Computational Biology and Director of the Center for Computational Medicine & Bioinformatics at the University of Michigan. He served as Executive Vice President for Medical Affairs and as Chief Executive Officer of the University of Michigan Health System from 1997 to 2002. He was Dean of the School of Public Health, and Professor of Medicine and Environmental Health, University of Washington, Seattle, 1982-1997. His research interests include cancer proteomics, chemoprevention of cancers, public health genetics, computational biology, science-based risk analysis, and health policy. He was president of the American Association for the Advancement of Science (AAAS) in 2006 and is active in numerous international health and science policy initiatives.

Dr. Omenn is the author of 463 research papers and scientific reviews and author/editor of 18 books. He is a member of the Institute of Medicine of the National Academy of Sciences, the American Academy of Arts and Sciences, the Association of American Physicians, and the American College of Physicians. He chaired the presidential/congressional Commission on Risk Assessment and Risk Management (“Omenn Commission”), served on the National Commission on the Environment, and chaired the NAS/NAE/IOM Committee on Science, Engineering and Public Policy. He received the John W. Gardner Legacy of Leadership Award from the White House Fellows Association in 2004 and the Walsh McDermott Medal from the Institute of Medicine in 2008 for long-term contributions to the IOM and the National Academy of Sciences.

Dr. Omenn received his B.A. summa cum laude from Princeton, M.D. magna cum laude from Harvard Medical School, and Ph.D. in genetics from the University of Washington.

Anita Patlolla, Ph.D.



Dr. Anita Patlolla is currently working as a Research Assistant Professor in the Department of Biology/Environmental Science Ph.D Program at Jackson State University, Jackson, Mississippi, USA. She received her BS and MS degrees in Genetics from Osmania University, Hyderabad, India, and a Ph.D in Environmental Science [Major concentration: Genetic Toxicology] from Jackson State University.

Dr. Patlolla has published several research papers and chapters in 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. She served as a reviewer for peer review journals in toxicology including Environmental Toxicology, Toxicologic Pathology, Basic & Clinical Pharmacology Toxicology, Prostaglandins, Leukotrienes& Essential Fatty Acids, MidSouth Computational Biology and Bioinformatics, EPA-IRIS Program and Hepatotoxicity. She served as chair of the “Nanotoxicology” and “DNA repair and Genotoxicity” session in the Annual Meetings of the Society of Toxicology. She is a member of several professional organizations including Society of Toxicology (SOT), The Society of Environmental Toxicology and Chemistry (SETAC), American Nano Society (ANS), American Association of Cancer Research (AACR), European Association of Cancer Research (EARC), Environmental Mutagen Society (EMS) and Mississippi Academy of Sciences. She is also on the editorial board of several Nanomedical and Nanoscience journals. She received awards such as American Association of Cancer Research MSI Faculty Scholar for the past four years (2007-2010). Her main area of research is toxicity studies of nanostructures and heavy metals with biological systems, with an emphasis on elucidating the relationship between the physical and chemical properties (e.g. size, shape, surface chemistry, composition, and aggregation) of heavy metals, nanostructures or nanoparticles with induction of toxic biological response.

Dr. Patlolla has extensive experience on the toxicokinetics, molecular mechanisms of toxicity and histopathology of heavy metals and nanomaterials in animal models. She also has expertise in Genotoxicity Bioassay such as Chromosomal aberrations, Micronucleus Test and Comet assay etc. She is the first woman research faculty at Jackson State University ever to receive the prestigious independent funding from Air Force Research Laboratory/Air force Base (AFRL/AFB) in the area of Nanotoxicology.

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 the toxicity and carcinogenesis caused by benzo(a)pyrene (BaP), a lipophilic, widely distributed environmental chemical 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 an 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 metabolic pathways.

Dr. Ramesh’s research also focuses on the role of resveratrol, a phytoestrogen in preventing colon cancer development and toxicity caused by BaP.

Nittala Someswara Rao, Ph.D.



Dr. Nittala Someswara Rao is a professor of Analytical Chemistry in Andhra University, Visakhapatnam. He received his M.Sc. and Ph.D. from Andhra University. He was DAAD fellow at Technical University, Berlin and senior DAAD fellow at “Max Plank Institute – Hamburg, Germany.

Under Dr Rao’s guidance, 18 students have obtained their Ph.D’s, and 12 have received their M. Phil. Degrees. Currently, 10 members are pursuing their Ph.D degrees and 12 students their M.Phil degrees. His research interests are Environmental, Pharmaceutical and medicinal chemistry, analytical chemistry, H-bonding and CT complexes. He successfully completed 20 major projects with total grant equivalent to one million US dollars and at present 4 projects are in progress with a budget equivalent 0.2 million US dollars.

Dr. Rao’s current research is mainly in soil pollution, water quality and pollution, air quality and pollution, development of new and simple analytical methods for indicating the stability of several drugs, analysis of selected commercially available drugs for impurities, detection and determination of chemicals that are responsible for bad odors (smells) from different industries; finding different instrumental methods to assess the propensity of coal for spontaneous combustion etc.

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 recently retired of the National Research Institute of Forestry, Agriculture and Animal Production (INIFAP-Mexico). Presently, is a Professor-Researcher in the College of Zoo-technology 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. He is also an invited professor at the Advanced Materials Research Center (CIMAV-CONACYT).

Dr. Rubio has written three books, several book chapters and has about 40 peer-reviewed publications in different journals. He belongs to the National Researcher System of CONACYT-Mexico and is participating as a member of the bio-security 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 a Senior Biostatistician and Research Professor at Jackson State University. Prior to his role as senior biostatistician at the RCMi Translational Research Network (RTRN) Data and Technology Coordinating Center (DTCC), February 2011, he served as 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. Before joining the Jackson Heart Study in August 2000, he was a tenured Associate Professor of Biostatistics at Xavier University of Louisiana in the College of Pharmacy. He 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 serves as a reviewer of research grants for a number of DHHS agencies; and abstracts for scientific conferences of a number of professional organizations. He is the Chairperson of the National Institute on Drug Abuse (NIDA) African American Researchers and Scholars Workgroup. He is currently the Chair of the RCMi Internal Advisory Committee at Jackson State University. Dr. Sarpong is a member of 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.

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 has identified two novel genes associated with human breast and kidney cancer. His current research is focused on the genetic and epigenetic bases for environmental estrogenic-chemicals and heavy metals-induced human cancers. He is a member of American Association of Cancer Research (AACR), Society of Toxicology (SOT), and American Association for the Advancement of Science (AAAS). Dr. Singh has served as reviewer for Susan G. Komen Breast Cancer Foundation Research Grants and many peer-reviewed journals.

Karam F. Soliman, Ph.D.



Dr. Karam F. A. Soliman is currently a Distinguished Professor and Assistant Dean for Research and Graduate Studies at the Florida A&M University College of Pharmacy and Pharmaceutical Sciences. Dr. Soliman obtained his B.Sc. degree from Cairo University, and he was awarded the M.S. degree and the Ph.D. degree from the University of Georgia in the area of Physiology. Among 100 Historically Black Colleges and Universities (HBCU) in the country, Dr. Soliman ranked number one as the most Science published faculty member. His publications record includes 121 published research articles, 247 published abstracts, 3 books, 2 US Patents.

Dr. Soliman is also the nation's top trainer of African Americans holding Ph.D. degrees in Pharmaceutical Sciences. In addition to his teaching and research and administration duties, Dr. Soliman is the Program Director of NIH multimillion dollar grant to support the FAMU-Pharmacy Research Center in Minority Institution (RCMI).

Dr. Soliman is an active member of the American Physiological Society, American Society for Pharmacology and Experimental Therapeutics, Endocrine Society, and the Society for Neuroscience. In 2001, Dr. Soliman was named by Florida A&M University as the FAMUAN of the Century.

Dr. Soliman 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 \$27 million.

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.

Jacqueline J. Stevens, Ph.D.



Dr. Jacqueline J. Stevens is an Associate Professor of Biology and Program Director of the Minority Access to Research Careers Undergraduate Student Training in Academic Research (MARC/U*STAR) Program at Jackson State University. Dr. Stevens received her Masters Degree in Cell Biology and Ph.D. in Molecular Biology from the University of California, Santa Barbara. She was the Undergraduate Coordinator for undergraduate research training programs including the Louis Stokes Mississippi Alliance for Minority Participation (LSMAMP) funded by NSF and the Research Initiative for Scientific Enhancement (RISE) funded by NIH. Dr. Stevens is also serving as Co-Coordinator for the Northeast Alliance for Graduate Education and the Professoriate at the University of Massachusetts, Amherst.

Dr. Stevens' research interests are in the areas of molecular biology and gene expression, cancer biology, and therapeutics. Previous studies in her laboratory have focused on the identification of differentially expressed genes in corneal epithelial cells in response to UV irradiation and the analysis of changes in gene expression related to DNA damage in the subsequent cataract formation.

Dr. Stevens has expanded her interests in the area of molecular toxicology. Her laboratory is investigating the cellular and molecular mechanisms of arsenic toxicity in various carcinoma cell lines including breast, lung, and colon cells. Research activities in her laboratory include i) studies to evaluate the apoptotic mechanisms, oxidative stress, cell cycle analysis, and genotoxic mechanisms; ii) studies to evaluate changes in stress proteins (*Hsp70* and *cfos*), apoptotic proteins (*caspase-3*, *bcl-2*, *cytochrome c*, and *p53*), and additional proteins associated with arsenic trioxide toxicity; and iii) studies to evaluate gene expression in these cell lines by isolating and characterizing differentially expressed genes exposed to environmental toxins in colon, lung and breast carcinoma cells.

Dr. Steven's research efforts are focused on the apoptotic mechanisms, oxidative stress, genotoxic mechanisms, and gene expression in these cell lines. She has published in peer-reviewed journals and made presentations at national and international scientific meetings including the 10th and 11th International Symposia on Metal Ions in Biology and Medicine in Bastia, Corsica, France and Cambridge, United Kingdom respectively.

Maria H. Torre, Ph.D.



Dr. Torre is a Professor in the Inorganic Chemistry Department (DEC) of the Faculty of Chemistry, University of the Republic (UDELAR), Montevideo (Uruguay) and she is the Assistant Director of the Program of the Development of Basic Sciences (PEDECIBA) created by the United Nations Development Programme and UDELAR. She received her PhD degree in Bioinorganic Chemistry, directed by Dr. Enrique J. Baran (UNLP, Argentina) and the Ing. Eduardo Kremer (UDELAR, Uruguay). Her research interests are Bioinorganic Chemistry, Medical Geology, Medicinal Inorganic Chemistry and Environmental Monitoring.

As a part of her research work Dr. Torre developed new series of complexes with antimicrobial activities like Cu-sulfonamides, Cu(II) and Zn(II)-polyols against *E. coli*, *S. aureus*, *P. aeruginosa* and *C. albicans* and Fe-quinoxaline derivatives as antimycobacterium complexes (patented in 2009) and new metallic complexes with antitumoral activity. Besides, she studied the incidence of Cu deficiency in cattle in Northern Uruguay (causes, consequences and the alleviation with an injected copper-aminoacid complex) and the Se deficiency in human beings. She has published more than 60 articles in peer reviewed journals, she presented her work in several meetings and she gave several lectures worldwide. She is a foundation member of the Medical Geology chapter and the Cancer Association, in Uruguay and she is member of the Pharmaceutical Chemistry Association.

Francis Tuluri, Ph.D.



Dr. Francis Tuluri is serving as the Associate Professor in the Department of Technology since August, 2007. He joined the family of 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, Maths, and Computer Programming. He has over forty publications in reputed journals of national and international ranking; and has presented his work in national and international symposia. His current areas of research include Electronics Instrumentation and microcontroller data acquisition, Air quality modeling, optically induced liquid crystal display devices and materials, 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 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. He 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). The collaboration will enable to send two of our students to do summer research work in their laboratories with undergraduate research assistantship.

Malakhat A. Turabekova, Ph.D.



Dr. Malakhat A. Turabekova is a postdoctoral research associate in the Jackson State University at the Department of Civil and Environmental Engineering. She obtained her B.Sc. degree in Chemistry from Tashkent State University. In the year 1999 she was awarded the prestigious graduate scholarship offered by the Uzbekistan Presidential Foundation “Umid”. With this scholarship she successfully completed her graduate work receiving Master of Science in Chemical Research at the University of Reading (United Kingdom).

Dr. Turabekova received her PhD degree in Chemistry from the National University of Uzbekistan (2008). From 2000 to 2009 she worked as a Chemistry Lecturer at the Department of the Chemistry of Natural Compounds (National University of Uzbekistan).

Dr. Turabekova’s research field covers Quantitative Structure-Activity Relationship (QSAR) studies and molecular modeling. She focuses on optimization of biological activity/toxicity properties of the different classes of alkaloids and on developing of new efficient drugs on their basis. Additional interests include the application of QSAR technique to the investigation of structure-toxicity relationship for certain types of nanoparticles.

Udensi K. Udensi, M.S., M.P.H



Mr. Udensi Kalu Udensi (MPH Environmental Health; MS Medical Parasitology; BS Microbiology; AIMLS Medical Laboratory Science) is a Research Associate in the Research Centers in Minority Institutions (RCMI) Center for Environmental Health at Jackson State University. His research interests are in molecular biology and environmental toxicology. He is currently investigating alterations in genome-wide expression profiles of human keratinocyte cell line exposed to chronic concentrations of arsenic.

Mr. Udensi was also a faculty member at University of Belize Central America from August 2007 to January 2009 where he taught Environmental Health and Medical Laboratory courses.

Alice Walker, Ph.D.



Dr. Alice M. Walker received her Ph.D. in Environmental Science from Jackson State University (JSU) (May 2011); a MS in Botany from Howard University (1983); and a BS in Biology (JSU, 1979). She worked as a research assistant at the University of Mississippi Medical Center in the area of hypertension and Lyme's Disease, respectively (1986-1987; 1990-1995); and at Veterans Affairs Hospital in the area of Sick Cell Anemia (1988-1990). She has worked as a laboratory technician with NIH/RCMI/CEH in breast and lung cancer research. She is currently the laboratory technician for the RCMI multi-user core research facility, the Cellular and Molecular Biology Core Laboratory.

Dr. Walker's research focused on the cellular and molecular mechanisms of arsenic trioxide toxicity in human lung and breast carcinoma cells. She has published papers in several peer-reviewed journals and presented at numerous international and national symposia i.e. 8th International Symposium on Metal Ions in Biology and Medicine Symposium (Lisbon Portugal), 10th International Symposium on Metal Ions in Biology and Medicine Symposium (Corsica, France), 102nd American Association for Cancer Research, 12th RCMI International Symposium on Health Disparities, Metal Ions and Carcinogenicity, Third Annual Prostate Cancer Symposium and several International Symposia on Recent Advances in Environmental Health Research. She has also served as a mentor for several undergraduate and graduate students. This summer, Dr. Walker mentored a high school student with the NIH/NIDDK Short-Term Education for Underrepresented Persons (STEP-UP) High School Research Program, a collaborative research program with Charles Drew Medical School.

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.

As Junior Investigator, Dr. Yedjou has, so far, published 20 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*

INVITED SPEAKERS & ORAL PRESENTERS

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*.

Anjaneyulu Yerramilli, Ph.D.



Dr. Anjaneyulu Yerramilli is presently working as Visiting Professor in Environmental Science and Chemistry at Jackson State University, Jackson, Mississippi and coordinating the activities of Trent Lott Geospatial & Visualization Research Center (TLGVRC) in e-Center as its Director. He is involved as Lead investigator for the NOAA sponsored program on “Atmospheric dispersion Modeling for Gulf Coast” and a DoD sponsored program on “High-Performance Computational Methods for Novel Materials- Computationally Designed Molecularly Imprinted Polymers as Poisonous Gas Sensors”. He received his PhD in Environmental Chemistry in 1973, from Andhra University, Waltair, India. From 1972 to 90, he worked in various capacities in the faculty of Chemistry at Andhra University and Nagarjuna University in India.

Dr. Yerramilli worked as a Visiting Scientist of the British Council at University of Strathclyde, Glasgow, UK from 1984 to 1986. He received advanced training in the application of Remote Sensing and GIS for Natural Resource Management from NRSA Hyderabad, India. From 1990-2002, he worked as a Professor and Head of the Center for Environment at J.N.T. University India and was principally responsible for the development of the Center and its academic programs. As a Principal Investigator he executed a number of Research and Development projects sponsored by various government funding agencies in India. These projects are in the following areas: Geospatial Information Systems, Environmental Impact Assessment, Air pollution Modeling Monitoring, Sensor Development, Hazardous Waste Treatment, Hydrogen Production Technologies, and Nanomaterials. He had 33 years of teaching experience at Post Graduate level and published more than 130 Research Publications in various National and International journals and guided 33 PhD's. He also authored 8 books on environmental Technologies and Chemistry.

From Jan 2002 - October 2005, Dr. Yerramilli worked as Director of Institute of Science and Technology, JNTU. In 2003 he was invited by the *Swedish Academy of Sciences* to nominate a suitable scientist from India for consideration for the award of Nobel Prize in Chemistry and received BEST TEACHER award from Government of A.P INDIA.