

Stella Anyangwe, MD, Ph.D.



Dr. Stella Anyangwe is a physician and a clinical epidemiologist, and is currently the World Health Organization's resident representative in South Africa, a post she took in May 2007. She served in the same capacity in Zambia (2003-2007); in Mali (2001-2003); and in the Seychelles (1998-2001). She joined the World Health Organization as a regional adviser in 1996 after working with the Morehouse School of Medicine HIV/AIDS Prevention Project in Zambia as epidemiologist and STD advisor (1993-1996).

Dr Anyangwe holds an MD degree (1977) from the University of Yaounde School of Medicine, an MPH (1985) and a Ph.D. (1990) from Tulane University, New Orleans, LA. She taught biostatistics, epidemiology and community medicine in the University of Yaounde School of Medicine, and was director of clinical epidemiology until she left Cameroon in 1993. She did extensive research on the socio-economic factors associated with tropical diseases (especially urinary schistosomiasis) in women, as well as on harmful traditional practices that affect women's health in Cameroon. Her main professional interest now is in the area of rights-based approach to health, with special focus on preventable and lifestyle diseases. Dr. Anyangwe is married with two children.

Anthony E. Archibong, Ph.D.



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

Dr. Archibong's expertise is in mammalian reproductive biology and the molecular mechanism(s) of environmental influence on reproductive function. He is particularly interested in the adverse effects of environmental pollutants on the hormones that regulate male and female gonadal function, gamete interaction and preimplantation embryo development. He served on the editorial boards, of *Biology of Reproduction*, *Archives of Andrology* and *Advances in Reproduction* and had served as a reviewer for *Journal of Animal Science*. He is currently on the editorial board of *Andrology Update* and a reviewer for the *Biology of Reproduction*, *Theriogenology*, *Fertility Sterility*, *Journal of Endocrinology* and *Asian Journal of Andrology*. He has served two terms in the UDSA Animal Reproduction Study Panel. Dr. Archibong has authored 27 peer-reviewed manuscripts, a book chapter and more than 62 abstracts in the area of reproductive biology/reproductive toxicology. He has been able to maintain continuous extramural funding for his research from federal and private sources, including a minority supplement from NIH to study sperm function in fertilization events. Dr. Archibong has served as a mentored/preceptor to Ph.D. graduate students and has supervised 11 medical students in research whose data presentations have won both Institutional and National awards.

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 Scientific Consultant for Center of Excellence and Technology, Ministry of Military Production. 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.

Dr. Badawi participated in the research of Applied Surfactant and Metallosurfactant Chemistry. His research interests are in the areas of both Environmental Chemistry and Medicinal Chemistry with special emphasis on antitumor agents. His current research involves investigations on metal based selenium drugs. Additional interests include the development of biocides and investigation of Nanotechnology for destruction of both environmental pollutants and tumors.

Cynthia Banks, M.S.



Ms. Cynthia J. Banks has been a U.S. Army Engineer Research and Development Center team member for over 12 years. She is currently working as a Research Biologist in the Environmental Laboratory. She received her B.S. and M.S. degrees in Biology (Environmental Science) and Hazardous Materials Management from Jackson State University.

Ms. Banks has the unique opportunity to work on research projects that fall into two broad categories: 1) Large, comprehensive *Programs*, and 2) Comparatively specific, *Reimbursable* studies that are mainly conducted for Corps of Engineers District offices and usually apply to particular geographic areas. As part of the Contaminant Bioavailability and Toxicology Team, her primary research focus is to determine the effects of environmental contaminants within individuals, populations, and systems of populations within biological systems, and to interpret the significance of those effects. She assesses outwardly observable (lethality, growth, reproduction, etc.) toxic effects of contaminants within exposed organisms.

David Bernhard, Ph.D.



Dr. David Bernhard obtained his Ph D. from the Tyrolean Cancer Research Institute; Innsbruck Austria and is currently Head of the Cardio-Thoracic Surgery Research Laboratory, Department of Surgery, Vienna Medical University, Vienna, Austria. He was also Head of the Cardiac Surgery Research Laboratory, Department of Cardiac Surgery, Innsbruck Medical University, Innsbruck, Austria from 2007 to June 2009.

Dr. Bernhard's career related activities include: 34 scientific publications in peer reviewed journals; over 135 impact points; over 770 citations; 3 contributions in books; 2 patents; Managing Editor of the Journal: Gerontology. He is also reviewed over 30 different Scientific Journals (e.g. Circulation, Circulation Research, European Heart Journal, The FASEB Journal etc.).

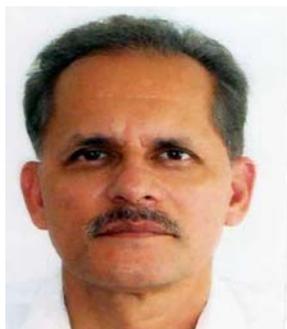
Martha N. Brackin, Ph.D.



Dr. Martha N. Brackin is a graduate of Mississippi State University and is an American Society of Clinical Pathology board certified medical technologist. She received her masters and doctorate degrees from the University of Mississippi Medical Center Department of Pathology in Immunology. After graduate school she received postdoctoral training in Dallas at the University of Texas Southwestern Medical Center Department of Obstetrics and Gynecology in the immunophysiology of pregnancy and in Memphis at St. Jude Children's Research Hospital Department of Infectious Disease in cancer immunotherapy. Currently she is a private consultant for a NASA grant to develop an airborne fungal spore estimation model using remote sensing and ground weather data.

Dr. Brackin's interests and experience includes the determination of weather parameters on which airborne fungal spores are dependent, establishment and verification of a Non-Hodgkin's lymphoma animal model and determination of the mechanism of action of a viral vector based immunotherapy vaccine containing the NPM/ALK oncogene, determination that soluble factors upregulate membrane bound molecules on immature Natural Killer (NK) cells during the maturation process as they move through the uterine decidua, discovery of the important adhesion molecules present on decidual NK cells and their ligands or receptors on decidual stroma and uterine endothelial cells in early human pregnancy, study of the immunosuppressive nature of the hydatidiform molar trophoblast, a precursor of choriocarcinoma, and identification of interferon- β as one mediator of the immunosuppression, determination of class II major histocompatibility antigens on lymphocytes in HIV patients from different ethnic backgrounds that predict progression of the disease and determination that B cells in recipients after pre-transplant blood transfusion treatments extend the life of the donor kidney by inducing transplantation tolerance.

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.

José A. Centeno, Ph.D.



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

Dr. Centeno has presented over 250 invited seminars and lectures, and he is the author or a principal co-author of over 100 manuscripts, book chapters, reports, monographs, and research abstracts on various topics of trace elements, metals and metalloids, medical geology, environmental toxicology, human health, and ecosystem issues. He has been involved in numerous academic, government and professional activities related to biomedical research, environmental health, medical geology and environmental toxicology including serving as General Chairman of the *6th International Symposium in Metal Ions in Biology and Medicine (ISMIBM)* (May 7-10, 2000), and co-chairman of the 7th, 8th, and 9th ISMIBM (2002, 2004 & 2006), participating in several national and international committees including the International Agency for Research on Cancer (IARC, Lyon, France), NIH grant proposal Study Sections, the USEPSA TOSCA-Interagency Testing Committee, the International Working Group on Medical Geology, the National Research Council Committee on Research Priorities for Earth Science and Public Health, the National Academies –Board on International Organizations, and the U.S. Department of Defense Working Group on Biomonitoring. Since 2005, he has served as Regional Officer for the International Union of Geological Sciences and its Commission on Geosciences for Environmental Management (IUGS-GEM), and as a Senior Advisor for the IUGS-International Year of Planet Earth (2007-2009). He serves on the Editorial Board of five scientific journals, as associate editor of the book on *Essentials of Medical Geology (2005)*, as associate editor of the book *Metal Contaminants in New Zealand (2005)*, and as founding member and current Chairman for the *International Medical Geology Association*. He is Fellow of the Royal Society of Chemistry, London, UK.

Tapan Chakrabarti, Ph.D.



Dr. Tapan Chakrabarti obtained Master's degree and Doctorate in Biochemistry from Nagpur University. He also qualified the Associate Membership Examination of the Indian Institute of Chemical Engineers (AMIChE) in Chemical Engineering from Jadavpur University, followed by LLB from Nagpur University. Dr. Chakrabarti joined as a scientist at NEERI and rose to Director Grade Scientist holding the position of Acting Director of National Environmental Engineering Research Institute, Nagpur. He has worked in the areas of environmental monitoring and environmental management with special reference to toxic wastewater and hazardous sludge using biotechnological tools, bioremediation of contaminated sites, biotechnological production of value-added chemicals from wastes, genotoxicity of toxic wastewaters and leachates, and toxicogenomics and proteomics.

Dr. Chakrabarti is presently the Chairman of the Department of Biotechnology Task Force on Biodiversity Conservation and Environment. He was also an alternate member of the Supreme Court Monitoring Committee constituted for hazardous waste management in India. He has published more than hundred research papers in national and international journals having high impact factor and has been awarded national and international patents for his research. He is a recipient of many awards and honors. Among these, the noteworthy are: Pitamber Pant National Environment Fellowship Award conferred by the Ministry of Environment and Forests, Govt. of India; Fellow of the Maharashtra Academy of Sciences; selection as the Country Expert for the survey of hazardous waste management in India by Asian Productivity Council, Japan and Flora-Tech Award on Environment given by Flora-Tech Laboratory, Nagpur.

Adriana Z. Cousillas, Ph.D.



In 1985, **Dr. Adriana Z. Cousillas** became a Professor in the Toxicology and Environmental Hygiene Department at the Faculty of Chemistry. Since 1988, she has been in charge of the area of Safety and Industrial Hygiene. She is also the researcher for Program of UdelaR's Basic Sciences (PEDECIBA – Universidad de la República), and the researcher for the National Association of Investigation and Innovation (ANII). As of 1986 to present, her Specialization courses were in Brazil, Argentina, Spain, Sweden, Venezuela, Cuba, and Uruguay.

Dr. Cousillas is an author of several national and international publications. She is a professional speaker for national and international conferences and seminars on topics related to Industrial Hygiene and Toxicology and particularly in those related to the exposition to heavy metals (Brazil, Argentina, Venezuela, Cuba, Mexico, USA and Uruguay).

From 2004 to present, Dr. Cousillas has been evaluating the management and control of chemical substances in Tannery, including occupational measurements in workers. From 2000 to 2008, she was the Technical Adviser for the Anglo-Uruguayan Company "LINPAC Plastics Uruguay", in the area of Health, Safety, Hygiene and Environmental (HSHE). She also did Particular Advices doing Hygienic Evaluations across biological and occupational samplings (as determination of total powder, metallic powder, smokes of weld, organic solvents), noise, lighting and coordination of studies in biological samples. All these tasks have been made in different companies and areas, for example: Pharmaceutical Industries, American Chemical, Paper Mills, Managerial Medicine, Painting Manufacturers, Tanneries, Slaughter houses, among others (1995 up to the date).

Edmond E. Creppy, Ph.D.



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

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

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

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

Prescott Deininger, Ph.D.



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

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

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. He has mentored 3 graduate students to Masters’ degrees, and over 35 students with their research presentations or posters.

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). He 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.

Sakina Eltom, Ph.D.



Dr. Sakina Eltom is an Associate Professor in the Department of Cancer Biology at Meharry Medical College in Nashville, TN. Her education includes a professional degree in Veterinary Medicine where she was trained in large animal medicine and surgery in University of Khartoum in Sudan, with further training in University of Liverpool, England and Veterinary School of Hannover, Germany. Dr. Eltom went on to earn a Masters of Science and a Ph.D. in Pharmacology from Cornell University in Ithaca NY. Her postdoctoral research experience includes training in chemical carcinogenesis at the McArdle Laboratory for Cancer Research, and training in environmental and molecular toxicology at the University of Wisconsin-Madison. She held numerous academic positions at Cornell University and University of Wisconsin-Madison.

She also ventured in the biotechnology world, where she held a Senior Scientist position in Paracelsian Inc., an IPO Biotech Company in Upstate NY. Before joining the faculty at Meharry, she was an Assistant Scientist in the Department of Pharmacology at the University of Wisconsin Medical School in Madison.

Dr. Eltom's research is investigating the molecular mechanisms of carcinogenesis induced by exposure to environmental poly aromatic hydrocarbons (PAH). The major emphasis is on characterizing the role of the aryl hydrocarbon receptor in the development and progression of breast carcinoma. Another research area in her laboratory is investigating the role of environmental endocrine disruptors in breast cancer of pre-menopausal women and how the gene-environment interaction contributes as a risk factor to the high incidence of breast cancer in pre-menopausal African American women.

In addition to research, Dr. Eltom has a vast interest in graduate education, contributing as a trainer for Ph.D. students in biomedical sciences, and she currently serves as a director of graduate studies in pharmacology.

Andrew Joseph Englande, Jr., Ph.D.



Dr. Andrew J. Englande is a professional engineer and currently holds the position of Professor, Department of Environmental Health Sciences, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana. He obtained his Ph.D. in Environmental and Water Resources Engineering from Vanderbilt University, Nashville Tennessee.

Dr. Englande has published numerous papers dealing with water quality management, water and wastewater treatment, sustainable development, contaminant removal by biological systems, fate of contaminants in the environment, and hazardous waste management.

Dr. Englande is past chair of the Chemical Industries Specialty Group of the International Water Association (IWA). He is a Fulbright Scholar and was selected to the American Academy of Environmental Engineers.

Ebenezer Olatunde Farombi, Ph.D.



Professor Ebenezer Olatunde Farombi is a 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 a 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 focus is on the role of Free Radicals and Antioxidants in Molecular Carcinogenesis and Chemoprevention. 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. He is presently the Head of Department of Biochemistry in the Nigerian Premier University and also the current Vice-President of the Society for Free Radical Research (SFRR)-Africa. He has published over 75 scientific papers in international peer reviewed journals. He has supervised 70 BSc and 65 MSc dissertations and completed the supervision of 5 Ph.D. Theses. He is on the Editorial board of many international journals.

Fazlay S. Faruque, Ph.D.



Dr. Fazlay S. Faruque is the Director of the GIS and Remote Sensing program and a professor at the University of Mississippi Medical Center (UMMC). He received his PhD in Geological Engineering from the University of Mississippi. Before joining UMMC, he worked for a consulting firm, Waggoner Engineering, as GIS Manager. At UMMC, he teaches graduate-level GIS/RS and environmental health courses. He has been teaching and conducting research using GIS and Remote Sensing in the areas of health, planning, and environmental protection for more than twenty years. His current research interests include application of remote sensing in environmental health studies, development of GIS-based real-time surveillance systems and medical geology.

John S. Furey, M.S.



Mr. John Furey (1987 MS Physics, University of Illinois; 1985 BS Physics, BS Astronomy, Valdosta State University) is a Research Physical Scientist for the Environmental Laboratory at the U.S. Army Engineer Research and Development Center in Vicksburg. He began work at ERDC in 1992, first as a scientist then task leader for several contractors.

Mr. Furey is a multidisciplinary scientist providing original research solutions for projects of national security concern and wide-ranging scope. Much of his work has been directed to field and laboratory method development for characterizing the environmental effects of military operations. His research interests include the fate and effects of organic and elemental contaminants, multivariate analyses, instrumentation especially involving spectrometry, data fusion, and algorithm development.

Alec Greer, Ph.D.



Dr. Alec Greer obtained his Ph.D. degree from the University of Wyoming under Edward L. Clennan. He was a postdoctoral fellow at University of California, Los Angeles with Christopher S. Foote, and then moved to Brooklyn College of the City University of New York (CUNY) in 1999. He is a Professor of Chemistry and served as Deputy Executive Officer in the Chemistry Department at the Graduate Center, CUNY's Ph.D. degree granting unit.

Dr. Greer teaches Organic Chemistry at the undergraduate level and Advanced Organic Chemistry at the Ph.D. level. His research interest is in physical organic chemistry, singlet oxygen and peroxide chemistry, as well as natural products chemistry and organism defense chemicals. He enjoys a number of collaborations with outstanding scientists, including: Ruomei Gao (Jackson State University), Joel F. Liebman (University of Maryland, Baltimore), and Ronald Bentley (University of Pittsburgh).

Wei Min Hao, Ph.D.



Dr. Wei Min Hao is a senior scientist at the United States Forest Service's Rocky Mountain Research Station. He has published over 80 papers as authors or co-authors in scientific journals. He authored a chapter to one of the Intergovernmental Panel on Climate Change (IPCC) reports in 1994. The IPCC was the co-recipient of the 2007 Nobel Peace Prize. He was one of twelve recipients for the "*Influential Chinese Award in 2007.*"

Dr. Hao leads an interdisciplinary team to study the impacts of fires on air quality, atmospheric chemistry, and climate at regional and global scales. The team has conducted extensive field experiments to quantify the emissions of atmospheric pollutants and greenhouse gases from fires in various ecosystems in the United States, Mexico, Canada, central Siberia, Brazil, Chile, Zambia, and South Africa. The group also operates a satellite receiving station to produce fire locations and map burn scars in near real-time and a high-performance Linux cluster computer to forecast air quality downwind from large fires.

Prior to joining the Forest Service, Dr. Hao was a scientist at the Max-Planck-Institut für Chemie, Mainz, Germany. He received a Ph.D. degree in atmospheric chemistry from Harvard University in 1986, two M.S. degrees in geochemistry and toxicology from Massachusetts Institute of Technology in 1979 and 1981, and a B.S. degree in chemistry from Fu Jen Catholic University in Taiwan in 1976.

Aage Haugen, Ph.D.



Dr. Aage Haugen is Research Director of Section of Toxicology at the National Institute of Occupational Health, Oslo, Norway, and professor at Institute of Biotechnology, Norwegian University of Science and Technology. He received his undergraduate training and the PhD degree from University of Bergen, Norway. His main research interests are environmental carcinogenesis, and to understand the mechanisms that underlie susceptibility to human lung cancer for application in cancer risk assessment, cancer prevention and improved diagnosis. Current projects study the role of inflammation in lung cancer and sex differences in PAH-metabolism and risk of lung cancer. Dr. Haugen and his colleagues are investigating relation between specific exposures and DNA methylation responses, and GWAs of lung cancer.

Karl Kelsey, M.D., MOH.



Dr. Karl Kelsey is Professor of Community Health and Pathology and Laboratory Medicine at Brown University. He is Director of the Center for Environmental Health and Technology, home to the Brown University Superfund Basic Research Program.

Dr. Kelsey is interested in the application of laboratory-based biomarkers in environmental disease, with experience in chronic disease epidemiology and tumor biology. The goals of his work include a mechanistic understanding of individual susceptibility to exposure-related cancers. In addition, his laboratory is interested in tumor biology, investigating somatic alterations in tumor tissue from patients who have developed exposure-related cancers. This work involves using an epidemiologic approach to characterize epigenetic and genetic alteration of genes in the causal pathway

for malignancy. Active work includes several studies of individual susceptibility to cancer. Major case control studies that are ongoing in the laboratory include studies designed to understand inherited and acquired susceptibility in head and neck cancers.

Dr. Kelsey's laboratory is investigating susceptibility to smoking-related lung cancer, studying multi-racial and ethnic populations. In addition, the laboratory is also studying inherited susceptibility to brain tumors and pancreatic cancer. The laboratory is also involved in a case control study of asbestos-associated mesothelioma, and arsenic exposure, cigarette smoking and bladder cancer. Considerable work is being devoted to understanding the mechanisms of action of both asbestos and arsenic including their ability to effect promoter methylation and gene silencing in carcinogenesis. He received his MD from the University of Minnesota and Masters of Occupational Health from Harvard University.

Sunali Khanna, Ph.D.



Dr. Sunali Khanna is a faculty member of the Maharashtra University of Health Sciences in Mumbai, India. She is one of the youngest dental specialists of India. She has a great interest in clinical and applied research. She guides students and also takes care of patients at the Nair Hospital Dental College. She is devoted to the healthcare of patients particularly the elderly. Her work and expertise has earned appreciation from the Dental Council of India.

Dr Khanna qualified in the all India merit examination for a B.D.S seat and later for Masters in Dental Surgery. She won academic distinctions and was recognized by the International College of Dentists in 2001. In 2005 she became the first of her class to qualify the D.N.B (Diplomate of National Boards) examination in Oral Medicine &

Radiology. A year later, she was conferred membership to the National Academy of Medical Sciences, New -Delhi. Recently, she has obtained the Post Graduate Diploma in Hospital &Healthcare Management and Post graduate Diploma in Medicolegal systems from the Symbiosis International University, Pune. She is presently a member of

the Executive Committee of the Indian Academy of Oral Medicine & Radiology. She is also on the Peer Review Board of numerous National and Overseas journals and has been approached by the Saha Institute of Nuclear Physics, Kolkata and Bhabha Atomic Research Centre, Mumbai for collaboration in key projects. She has co-authored book manuals apart from publishing 33 research papers in national and international journals. She has made presentations at several national and international conferences including the World Dental Congress; 3rd Asia Pacific Congress of Craniofacial Surgery in the Republic of Maldives; 16th International Congress of Dentomaxillofacial Radiology in China; 6th International Congress of Orthodontia in Iran; and 10th International Symposium on Metal Ions in Biology & Medicine in France 5th International Symposium on Recent Advances in Environmental Health Research, USA , 7th Asian Congress of Oral & Maxillofacial Radiology and 13th Annual Meeting for Diagnostic Imaging of JSOMR, Japan.

Joseph R. Landolph Jr., Ph.D.



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

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

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

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

Dr. Landolph has served as a grant reviewer for U. S. EPA Health Effects Research Panel, for special RFAs for NIEHS, and as an ad hoc member of the Chemical Pathology and AI-Tox-4 Study Sections of 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). He is also a member of the Drinking Water Committee (2002-2008) and the Human Health Research Strategies Review Committee (2002-2004) of the Science Advisory Board of the U. S. E. P. A., and a member of the Human Health Research Review Subcommittee of the Board of Scientific Counselors of the U. S. EPA (2005-2007).

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

Nelly Mañay, Ph.D.



Dr. Nelly Manay is head professor and research team leader of the Department of Toxicology and Environmental Hygiene and director of the quality management certified system ISO 9001/2000 of the Specialized Center of Chemical Toxicology (CEQUIMTOX) at the Faculty of Chemistry, Montevideo, Uruguay. Her main areas of work are Analytical, Occupational and Environmental Toxicology. Her research interest is focused on environmental pollutants and bio monitoring with special emphasis on lead and other toxic metals. She is an invited lecturer, organizer and/or scientific committee member of international, latin-american and regional scientific meetings and she serves as advisory forensic chemical toxicologist of the court of justice of Uruguay. She belongs to the Program for the Development of Basic Sciences (PEDECIBA) and to the National Researcher System of the National Agency of Research and Innovation (ANII) of the Ministry of Education and Culture as a scientific researcher.

Dr. Nelly Manay is the Current President of S.U.T.E., the Uruguayan Society of Toxicology and Ecotoxicology (since 2004) and current secretary of ALATOX, the Latin-American Association of Toxicology (since 2006) as well as one of the Councillors of the International Medical Geology Association (IMGA).

Edmund Merem, Ph.D.



Dr. Edmund Merem completed his B.A. and M.E.S. at York University, Toronto and then his M.A. at Pontifical Lateran University, Vatican City. He graduated with a Ph.D. from Jackson State University, Mississippi. Dr. Merem has 11 years of experience in Global environmental planning and environmental accounting for oil and gas in Canada and the US, and hydro-politics of the Middle East and Africa. He has written several research monographs and papers that have been published in academic journals and major conference proceedings. His 2nd book entitled “*Environmental Accounting For Oil and Natural Gas A North American Case Study*” is about to be published by Edward Mellen Press. He worked as an Environmental Analyst in the Environment Bureau of Agriculture and Agric-Food Canada and is currently an Associate Professor of Environment and Land Use in the Urban and Regional Planning Department at Jackson State University.

Dora N. Mbanya, M.D., 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. She 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.

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



Dr. Sidney A. McNairy Jr. has gained favor and distinction for his dedication to advancing the nation's biomedical research capacity and for his efforts to broaden opportunities for both underrepresented minority institutions, and institutions in 23 states and Puerto Rico that have had limited participation in the nation's biomedical research agenda. A native of Memphis, Tennessee, Dr. McNairy graduated from St. Augustine High School and LeMoyné-Owen College in his hometown before matriculating as a graduate student at Purdue University in West Lafayette, Indiana. He earned both the master's and doctorate degrees in biochemistry with minors in physiology and organic chemistry at Purdue University. During his graduate career he isolated, chemically characterized, and determined the molecular basis of the biological actions of triterpenoid glycosides. He has done further study at both Columbia and Harvard universities.

Dr. McNairy was a professor of biochemistry for 10 years at Southern University in Baton Rouge, Louisiana. During his tenure at Southern University, he also served as the Director of the Health Research Center and was a visiting scientist at Charles Pfizer, Eli Lilly, General Electric, Standard Oil of California, and the Centers for Disease Control and Prevention. In 1975 he began his federal career with the National Institutes of Health (NIH), Department of Health and Human Services (DHHS). The NIH is the nation's premier biomedical research organization and is the principal agency within the DHHS that evolves new knowledge that focuses on the causes, effects, prevention, and treatment of human disease. During his career at NIH, Dr. McNairy has been the driving force behind the success of a number of innovative programs that help strengthen biomedical research infrastructure at both emerging and research intensive institutions throughout the nation. He has also been a leader in developing innovative programs that address health-disparities and health-related science education for K-12 students and the general public.

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

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

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

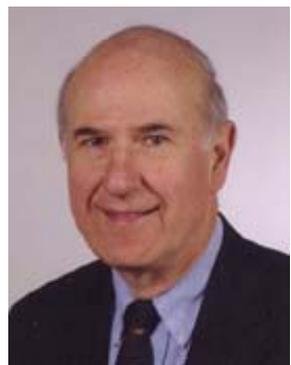
Paul F. Moundipa, Ph.D.



Dr. Paul F. Moundipa is a Professor of Biochemistry in the Department of Biochemistry, Faculty of Science. He is also heading the Laboratory of Pharmacology and Toxicology. He received his undergraduate training in Biological Sciences at The University of Yaounde I. His postgraduate and Doctorate degrees were also obtained in the same University in Biochemistry. He had been working during his doctorate thesis on plant products with androgenic activities with application in the treatment of male infertility.

Dr. Moundipa participates in the teaching of several courses in biochemistry to graduate, and postgraduate students in biochemistry. His main research interests are in the areas of toxicology and pharmacology. His current research involves investigations on the protein molecules induced by various plant products responsible in the protection of liver cells for application in diagnostic, pharmaceutical, and environmental arenas. Additional interests include the study of human protein molecules altered during occupational exposure of workers in contact to metal, oil, and volatile solvents in Cameroon, for application in Health.

Gilbert S. Omenn, M.D., 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.

Monica M. B. Paoliello, Ph.D.



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

Dr. Paoliello has a Ph.D. (2002) in Public Health from State University of Campinas (UNICAMP), São Paulo. She does research in the area of Toxicology and Environmental Health. She teaches undergraduate courses (Pharmacy and Medical School) and graduate courses (Public Health – master degree) at the State University of Londrina. Dr. Paoliello received the Senior Award from International Union of Toxicologists (IUTOX) for 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).

Anita Patlolla, Ph.D.



Dr. Anita Patlolla is a Genetic and Nanotoxicologist at the Department of Biology and the Environmental Science Ph.D. Program at Jackson State University in Jackson, Mississippi. Dr. Patlolla received her B.S (Genetics) and M.S (Genetics) from Osmania University, Hyderabad, India. She obtained her Doctor of Philosophy (Ph.D) degree in Environmental Science (Major Concentration: Genetic Toxicology) from Jackson State University in Jackson, Mississippi. As a post-doctoral fellow, Dr. Patlolla worked in the area of cerebral vasospasm (STROKE) at University of Mississippi Medical Center, in Jackson, Mississippi. She continued her post-doctoral fellowship in the area of toxicokinetics, molecular and histopathology of heavy metals in animal models at Jackson State University, Jackson, Mississippi. Dr. Patlolla has worked

extensively on the mechanisms of genetic toxicity of heavy metals and nanoparticles in rodents. Currently, she holds the position of Research Assistant Professor at the Dept. of Biology/Env.Sci Ph.D Program at Jackson State University, Jackson, Mississippi.

Dr. Patlolla has published several research papers and chapters in the reputed international peer-reviewed scientific journals and books. She has presented her research findings in several National and International Conferences in the form of lectures and posters. Her articles are widely cited by other researchers in the field. Dr. Patlolla 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 in 2007. She has been the recipient of American Association of Cancer Research MSI Faculty Scholar Award for the last three years (2007-2009). She served as chair and co-chair of the “DNA repair and Genotoxicity” session in the Annual Meetings of the Society of Toxicology. She also served as a reviewer for peer review journals in toxicology (Environmental Toxicology, Toxicologic Pathology and Hepatotoxicity etc.) for the year 2007-2009. She is a member of several professional organizations including Society of Toxicology (SOT), Environmental Mutagen Society (EMS), The Society of Environmental Toxicology and Chemistry (SETAC), American Association of Cancer Research (AACR), European Association of Cancer Research (EARC) and Mississippi Academy of Sciences.

Marcy F. Petrini, Ph.D.



Dr. Marcy F. Petrini is currently Professor of Medicine, University of Mississippi Medical Center, where she also serves as the Associate Director of the Division of Pulmonary, Critical Care and Sleep Medicine. She is the Medical Director of the Pulmonary Function Laboratory for the University Hospital and serves as a consultant in pulmonary function testing at the G.V. (Sonny) Montgomery Veterans' Administration Hospital in Jackson, MS. She received her Ph.D. at the University of Rochester in Rochester, NY in biophysics, where she started her studies of pulmonary function testing and gas exchange. She continued her training as a postdoctoral fellow at the University of Washington in Seattle, WA, in the pulmonary division. Most of her current research interests are in collaboration with pulmonary fellows for whom she serves as the research

coordinator.

Dr. Petrini's studies have included the effect of various factors on pulmonary function tests and their quality, including smoking, obesity, race, and various disease entities. Tests that she uses include the standard PFTs, spirometry, lung volumes, and diffusing capacity, as well as specialized tests, the maximum pressures and maximum voluntary ventilation for muscle function, methacholine challenge for diagnostic purposes and cardiopulmonary exercise testing for determination of cardiac and pulmonary limitation. More recently she is focusing on the Impulse Oscillography which allows early detection of obstruction and looks promising in separating the effects of smoking and obesity on early lung disease. Her other interest is in medical instrumentation which has led her to being active in the Association for the Advancement of Medical Instrumentation, for which she is currently serving as chair-elect of the Board of Directors. In 2001, she was elected a Fellow of the American College of Chest Physicians.

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.

Bakhtiyor Rasulev, Ph.D.



Dr. Bakhtiyor Rasulev is a postdoctoral research associate at Interdisciplinary Center for Nanotoxicity in the Jackson State University, MS. He received his PhD degree in Chemistry from the Institute of Chemistry of Plant substances (ICPS) in Tashkent, Uzbekistan in 2002. While in ICPS he studied natural compounds as by NMR spectroscopy as well as by molecular modeling and QSAR techniques. In the years 2001-2002 he also worked as a Chemistry Lecturer at the National University of Uzbekistan. He joined Prof. Jerzy Leszczynski’s group in 2004 as a postdoctoral research associate.

Dr. Rasulev’s researches a range of topics in structure-activity relationship studies dealing with biological activity prediction of natural compounds, physico-chemical and toxicity prediction of various organic compounds and different nanoparticles, including metal oxides and carbon nanomaterials. For this purpose he applies Quantitative Structure-Activity Relationship (QSAR) methods, quantum-chemical calculations and other molecular modeling techniques.

Paresh C. Ray, Ph.D.



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

Dr. Paresh Ray has published over 100 scientific publications including peer-

reviewed manuscripts, book chapters and abstracts. He has presented over 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, he 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 Rubio-Arias, Ph.D.



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

Dr. Rubio belongs to the National Researchers System of CONACYT-Mexico and is participating as a member of the biosecurity experts of the CONABIO-Mexico.

Daniel Sarpong, Ph.D.



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

Dr. Sarpong is a member 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.

Nijole Savickiene, Ph.D.



Dr. Nijole Savickiene is a Professor of Biomedical Sciences in the Kaunas University of Medicine. She received her undergraduate training in Pharmacy at Kaunas University of Medicine and the Ph. D. degree in Biomedicine. She participates in the teaching of Pharmaceutical botany, Pharmacognosy, Phytotherapy to medical, pharmaceutical and graduate students. Her research interests are in the areas of Pharmaceutical biology, Phytochemistry. She is participating in the research program "Search for New Drugs and Investigation of their Market", the main tasks of which is Phytochemical investigation of medicinal herbs and development of the technological conditions for medicinal plant raw materials. Her current research involves investigations on Heavy metals accumulation and detoxification Mechanisms in Plants, the role of Antioxidants in systemic diseases as diabetes, tumorous troubles, Creating new database on medicines used for curing civilization diseases, such as: cancer, diabetes.

Dr. Savickiene is a coordinator of the international project EUREKA "Antioksidabet" (Creation of the methodology for natural antioxidants (Green tea and Ginkgo biloba leaves extracts) usage in the prevention of the development of the *Diabetes mellitus* complications, estimation of the new usage aspects of these nutrition supplements, optimization of the technological forms).

Natalia I. Shtemenko, Ph.D.



Dr. Natalia I. Shtemenko is a Professor of Biochemistry in the Dnepropetrovsk National University. She received her undergraduate training in Chemistry at Dnepropetrovsk National University; the Ph. D. degree in Chemistry from Institute of Organic Chemistry, USSR Academy of Sciences, Moscow, Russia; the doctor's degree in Biochemistry from Taras Shevchenko National University, Kiev, Ukraine. She participates in the teaching of biochemistry to graduate students of Biological and Chemical Departments; she is the Head of the Department of Biophysics and Biochemistry. Her research interests are in the areas of anticancer research, application of metal-organic substances in medicine, nano-biotechnology.

Dr. Shtemenko's current research involves development of the rhenium – platinum antitumor system that in animal models eliminates cancer cells and showed antioxidant and antihemolytic properties. Additional interests include investigation of plants lipids and preparation of nanoparticles including drugs and plants lipids.

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.

Alina Smalinskiene, Ph.D.



Dr. Alina Smalinskiene is a Scientific Researcher at the laboratory of Cardiac Pathology at the Institute of Cardiology, Kaunas University of Medicine and an Associate Professor of Molecular Biology at the Lithuanian Academy of Physical Education.

Dr. Smalinskiene received her undergraduate training in Biology at Vilnius University and the Ph. D. degree in Biology at Kaunas University of Medicine. Her research interests are: the importance of zinc and plants immunomodulators in the protection of organism from hazardous effects of heavy metals; heavy metals impact on cellular death (necrosis and apoptosis) and proliferation; the assessment of target genes of cardiovascular diseases. She has co-authored 25 research articles. She acquired Research Grant of Lithuanian Foundation for Research and Studies

“The Assessment of Influence of *Eleutherococcus Senticosus* (Rupr. et Maxim. ex Maxim) Maxim Roots and Rootstocks Liquid Extract Tonussan for Mice Intoxicated by Cadmium Ions”. She is a member of Lithuanian Society of Biochemists and Lithuanian Society of Metalloecologists.

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, Dr Soliman was awarded federal grants totaling over \$ 27 million.

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). In the years 2000-2009 she worked as a Chemistry Lecturer at the Department of the Chemistry of Natural Compounds (National University of Uzbekistan). Her 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.

Bailus Walker, Jr., Ph.D.



Dr. Bailus Walker, Jr. is Professor of Environmental and Occupational Medicine Howard University College of Medicine and Chair of the District of Columbia Health Policy Council. From 1988 to 1991, he was Professor of Toxicology at the State University of New York in Albany. In 1991 he was named dean of the public health faculty, University of Oklahoma Health Sciences Center, Oklahoma City.

Dr. Walker has served as commissioner of public health for the Commonwealth of Massachusetts and chairman of the Massachusetts Public Health Council (1983-1988). Earlier (1981 - 1983) he was state director of public health for Michigan. In 1979 - 1981 he was Director of the Occupational Health Standards, Occupational Safety and Health Administration (OSHA) U.S. Department of Labor.

A past president for the American Public Health Association, Dr. Walker is a distinguished Fellow of both the Royal Society of Health (London, England) and the American College of Epidemiology. Elected to membership in the Institute of Medicine (IOM), National Academy of Sciences (NAS) in 1989, Dr. Walker has served on numerous IOM - NAS study commissions including chairman of the NAS Committee on Toxicology and a member of the Board of Environmental Studies and Toxicology.

A recipient of numerous awards and honors, Dr. Walker is advisor (Biodefense Laboratories) to the National Institutes of Health and senior science advisor to the National Library of Medicine. He is a graduate of the University of Michigan and holds a Ph.D. (Environmental and Occupational Medicine) from the University of Minnesota in Minneapolis.

Clement G. Yedjou, Jr., Ph.D.



Dr. Clement G. Yedjou is a Research 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 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.