

Presenter: Marquee D. King, PhD



US Department of Agriculture
ARS Office of Scientific
Quality Review
Beltsville, MD 20705
301.504.3283
marquea.king@usda.gov

Dr. King is the Director of the Office of Scientific Quality Review (OSQR) at the US Department of Agriculture (USDA) Agricultural Research Service (ARS). She communicates and enforces agency policy and requirements regarding the classification of 2,000+ research scientists, the peer review of 740 intramural research projects, and the retrospective review of fifteen national programs, in addition to providing direction to national program teams, area offices, and scientific staff concerning peer review.

Dr. King began her career with the US Environmental Protection Agency (US EPA) in Washington, DC, as a postdoc in 2002 in the Office of Research and Development, working in inhalation toxicology. She then worked in the Office of Pesticide Programs (OPP) Health Effects Division, where she evaluated and validated toxicity data submitted under FIFRA/FFDCA/FQPA on the properties, effects, and risks of pesticide exposure to human health and domestic animals. She also worked for two years in the Pesticide Re-evaluation Division as a Chemical Review Manager, mitigating risks to previously registered pesticide active ingredients. She transitioned to be a Designated Federal Official (DFO) under the Federal Advisory Committee Act (FACA), ensuring compliance with FACA law and other applicable laws and regulations. Dr. King was a past co-chair and founding member of the OPPs Toxicology Scientific Advisory Committee as well as the chair of the National Black Employment Program Advisory Council, working closely with senior management in the Offices of Civil Rights, Diversity, Outreach and Collaboration, and Human Resources to integrate policies and programs and serving as an advocacy resource for dissemination of information pertaining to underrepresented groups within the US EPA. She has been the Team Leader for the Special Emphasis Program Managers for the OPP, encompassing seven different affinity groups.

Dr. King completed her BS in chemistry from Delaware State University and pursued a PhD in toxicology from Virginia Polytechnic Institute and State University, where she was trained in immunotoxicology and heavy metals. She is actively involved in community outreach and mentoring, not only as the board Vice-President at her local Boys & Girls Club but also as an invited speaker at various universities, guiding graduate and undergraduate students, and others.

Presenter: Judith T. Zelikoff, PhD



New York University
School of Medicine
Department of
Environmental Medicine
New York, NY 10016
646.754.9451
Judith.Zelikoff@nyulangone.org

Dr. Zelikoff, a tenured Full Professor in the NYU Department of Environmental Medicine at the New York University School of Medicine, has over 25 years of extensive experience in environmental health and toxicology, focusing on laboratory models to assess the toxicology of inhaled single contaminants and complex mixtures, including metals, nanoparticles, gaseous and particulate (PM) air pollutants, smokeless and combustible products from tobacco cigarettes, biomass burning, and diesel exhaust. Over the last decade, studies in her laboratory have focused on the effects of early-life exposure (prenatal, neonatal, and adolescent exposures) to environmental toxicants, including electronic cigarettes (e-cigs) and ambient particulate matter (PM) on neurodevelopment, fetal cardiovascular structure and function, obstetric consequences, and later-life disorders (obesity, heart disease, immune dysfunction, cognitive behavior, and reproductive success in male and female offspring). Her studies with e-cig aerosols demonstrate that maternal exposure during pregnancy and early life alters neurodevelopment and produces hyperactivity- and anxiety-like behavior in adult offspring in a sex-dependent manner, obesity in adult female offspring, and increases in brain biological mediators correlated with memory performance. Furthermore, these studies also demonstrate that early-life exposure to e-cig aerosols with nicotine and flavorings alter bone marrow immune cell development. Altogether, these studies have shown the lack of safety associated with prenatal and early-life exposure to e-cig aerosols for the developing fetus and offspring.

As the Community Engagement Core (CEC) Director for the NYU NIEHS Core Center, Dr. Zelikoff has worked with several environmentally impacted minority and underserved communities and community-based organizations throughout the New York and New Jersey metropolitan areas. In cooperation with Massachusetts Institute of Technology, University of New Mexico, and the New York University Center CEC, Dr. Zelikoff also has partnered with student and staff nurses who work closely with Native American tribes and with members of the Ramapough Lunaape Tribal Nation to increase environmental health literacy. In addition to having served as a member of numerous Federal Advisory Committees, including the Institute of Medicine and National Research Council, National Toxicology Program Board of Scientific Advisors, and US Environmental Protection Agency and having chaired a NASA Panel to determine potential health effects of moon dust exposure, Dr. Zelikoff is a current *ad hoc* member on other study panels.

Presenter: J. Eric McDuffie, PhD, MBA



Janssen Pharmaceuticals
Companies of
Johnson & Johnson
San Diego, CA 92121
858.291.9747
jmcduffi@its.jnj.com

Dr. McDuffie is the Scientific Director of the Predictive & Investigative Toxicology group at Janssen Pharmaceutical Research & Development LLC, in San Diego, California. Dr. McDuffie's career began at Pfizer Inc.'s Ann Arbor, Michigan (2000–2007), and Plymouth, Michigan (2006–2007), sites. At Pfizer, he was responsible for providing investigative pathology support for multiple therapeutic area projects. As a member of a global group of collaborative preclinical safety assessment scientists, Dr. McDuffie supports early discovery and/or late development projects at Janssen. Dr. McDuffie has more than 19 years of experience in preclinical toxicology, including applications of *in vivo* and *in vitro* models and related biomarkers to support early target liability assessment as well as investigate mechanisms of potentially translatable inducible organ-specific liabilities for late-stage drug candidates.

He earned a BS in biology from Benedict College in Columbia, South Carolina (1994); a PhD in pharmacology from Meharry Medical College in Nashville, Tennessee (1998); postdoctoral research training from the University of Michigan Medical School in Ann Arbor, Michigan (1998–2000); and an MBA from the University of Phoenix in San Diego, California (2009). He has presented at various national and international conferences and co-authored over 30 peer-reviewed manuscripts and book chapters. Dr. McDuffie also co-edited the benchmark book *Drug Discovery Toxicology: From Target Assessment to Translational Biomarkers* (2016).

Presenter: Mindy F. Reynolds, PhD



Washington College
Department of Biology
Chestertown, MD 21620
410.778.7876
mreynolds2@washcoll.edu

Dr. Reynolds graduated from Brown University, where she studied the effect of repair and vitamin C in hexavalent chromium-induced toxicity. She then completed a postdoctoral appointment at Brown, where, in addition to continuing her research, she was an Adjunct Professor at Salve Regina University in the Department of Biology and taught a course in the Brown Pre-college Summer Program. In 2008, she joined the faculty of Washington College, where is now an Associate Professor and Chair of Biology, as well as Chair of the Natural Science Division. Dr. Reynolds teaches courses in general biology, biochemistry, cell biology, and toxicology. Over the course of her teaching career, Dr. Reynolds has transformed her teaching pedagogy to almost exclusively rely on active learning and inquiry-based design. All her courses employ principles of toxicology, allowing students to be introduced to the subject early in their undergraduate careers.

Dr. Reynolds' commitment to undergraduate education extends beyond the classroom. She has chaired the SOT Undergraduate Education Subcommittee and the SOT Education Committee. She is currently Co-Chair of the SOT Faculty United for Toxicology Undergraduate Recruitment and Education Committee and has served as a mentor and speaker for the CDI Undergraduate Diversity Program. SOT awarded Dr. Reynolds the Undergraduate Educator Award in 2015. Within her community, Dr. Reynolds collaborates with public school teachers and offers STEM events for middle school and high school students, and she is particularly interested in introducing young women and students of color to the STEM fields. Dr. Reynolds has an active research lab examining the molecular mechanisms of cytotoxicity and genotoxicity following co-exposure to cobalt, cadmium, and nickel. She has published several research and review articles on this subject with undergraduates as co-authors. Many of her students, including several SOT award recipients, have presented their research at the Society's Annual Meeting. Washington College has recognized Dr. Reynolds for her contribution to undergraduate education and service by awarding her the Gold Pentagon Leadership Award and inducting her into Omicron Delta Kappa, a national leadership honor society.

Presenter: John Pierce Wise Sr., PhD



Wise Laboratory of Environmental
and Genetic Toxicology
University of Louisville
Louisville, KY 40292
502.852.8524
john.wise@louisville.edu

Dr. Wise is head of the Wise Laboratory of Environmental and Genetic Toxicology, Professor of Pharmacology and Toxicology, and University Scholar and Chair of the Center for Environmental and Occupational Health in the School of Medicine at the University of Louisville. Dr. Wise's formal education includes a bachelor's degree in biology with high distinction and recognition from George Mason University and a PhD in pharmacology from the George Washington University. His postdoctoral training focused on molecular epidemiology followed by training in occupational health and risk assessment.

Dr. Wise leads a team of faculty, staff, and students who conduct state-of-the-art research aimed at understanding how chemicals in the environment affect health from a One Environmental Health perspective. His work includes experimental approaches involving cell biology, molecular biology, toxicology, molecular epidemiology, and genomics to study the health impacts of environmental chemicals at the molecular, cellular, tissue, individual, community, and population levels in humans and wildlife.

He has earned the SOT Education Award, the SOT Career Achievement Award from the Metals Specialty Section, and the Environmental Mutagenesis and Genomics Society's Education Award. Dr. Wise has mentored and trained over 200 faculty; postdoctoral fellows; and graduate, undergraduate, and high school students in biomedical and environmental health research. His students have won numerous local, national, and international awards and grants and have gone on to successful careers in academia, government, industry, and nongovernmental organizations. His undergraduate students have flown in zero gravity with NASA, biopsied whales at sea, caught and sampled live alligators at Kennedy Space Center, and studied sea turtles on the beaches of Puerto Rico. His work has been featured in numerous articles in local, national, and international press and social media sites, including short documentaries with Alexandra Cousteau and Miles O'Brien.

Presenter: Matthew J. Campen, PhD



University of New Mexico
Pharmaceutical Sciences
Albuquerque, NM 87131
505.925.7778
mcampen@salud.unm.edu

Dr. Campen is a Regents' Professor of Pharmaceutical Sciences at the University of New Mexico College of Pharmacy and an expert in the cardiopulmonary health effects of air pollution. He also is broadly interested in the cross talk of the cardiovascular and respiratory system in health and disease, conducting basic and clinical research into the nature of comorbidities that promote cardiovascular illness. His primary research focus involves the impact of inhaled toxicants, especially common air pollutants, on vascular function and injury. After graduating from the University of North Carolina School of Public Health, Dr. Campen trained in a pulmonary medicine postdoctoral fellowship at the Johns Hopkins University School of Medicine. Before his current appointment, he worked as an independent scientist at the Lovelace Respiratory Research Institute in Albuquerque, New Mexico, conducting both grant- and contract-funded research. Dr. Campen has published over 90 peer-reviewed articles and recently authored the "Toxic Responses of the Heart and Vascular System" chapter in the ninth edition of *Casarett and Doull's Toxicology: The Basic Science of Poisons*. Dr. Campen currently serves as an Associate Editor for *Toxicological Sciences*, and in 2013, he shared the Toxicological Sciences Editor-in-Chief position with John Lipscomb. Dr. Campen also was awarded the 2014 SOT Achievement Award. He has been a regular contributor and advisor to the US Environmental Protection Agency Clean Air Scientific Advisory Committee.

Presenter: Kenneth S. Ramos, PhD, ATS, DABFM



Texas A&M College of Medicine
Center for Genomic and Precision
Medicine
Houston, TX 77030
713.677.7440
kramos@tamu.edu

Dr. Ramos is an accomplished physician-scientist and transformational leader, with designations in the National Academy of Sciences and National Academy of Medicine. He is currently the Alek Chair of Medical Genetics, Director of the Institute of Biosciences and Technology, Associate Vice President at Texas A&M Health Science Center, and Assistant Vice Chancellor for Health Services at the Texas A&M University System. He is recognized throughout the world for his scientific contributions in the areas of genomics, precision medicine, and toxicology. He served as the 48th SOT President from 2008 to 2009. With formal training in pharmaceutical sciences, chemistry, biochemistry, pharmacology, and medicine, Dr. Ramos is helping to steer the changing landscape of medicine, biotechnology, and health care. In this context, he leads several translational, clinical research, and educational programs that integrate diverse approaches to elucidate genomic mechanisms of disease and novel therapies for several oncologic, pulmonary, and vascular diseases. He has published over 500 peer-reviewed manuscripts and abstracts in high-impact journals.

Dr. Ramos has provided academic, executive, administrative, and scientific leadership in the areas of genetics and genomic medicine and toxicology at several academic institutions, and over the course of his career, he has positively influenced the career of numerous clinicians and scientists engaged in medical, veterinary, and pharmaceutical practice. He is deeply committed to initiatives that advance modern technological applications to improve quality of health care and reduce both disease burden and health-associated costs. A native of Ely, Nevada, Dr. Ramos spent his formative years in New York, Puerto Rico, and Texas. He is married to Irma Ramos, MD, an emergency pediatrician and public health practitioner, and has two children—Kristie, a pediatrics resident at Washington University School of Medicine, and Ken Alexander, an undergraduate student in biology and general studies at the University of Arizona.