

SPEAKER BIOS: SESSION 1

Julia Brody, PhD, executive director and senior scientist, leads Silent Spring Institute's strategic approach to uncovering the environmental links to breast cancer. She is a nationally recognized expert on environmental chemicals and breast cancer, as well as a leader in community-based research and public engagement in science. Dr. Brody's current research focuses on reporting back to people who participate in environmental health studies to inform them of their own chemical exposures. Her team developed the Digital Exposure Report-Back Interface (DERBI)—a web-based tool for making high-quality personalized reports practical in studies of any size, and is currently adapting the tool for smartphone-based reports. She is also studying what Americans know about endocrine disruptors—as part of the emerging field of environmental health literacy.

Brandon Pierce, PhD, is an Associate Professor in the Departments of Public Health Sciences and Human Genetics at the University of Chicago and a Member of the University of Chicago Comprehensive Cancer Center. Our group works at the intersection of genetic, molecular, and environmental epidemiology. We are interested in how genetic variation influences or alters the effects of environmental exposures and biomarkers on human health and biology. Areas of ongoing research include (1) dynamic features of the genome that are biomarkers of aging, exposure, and disease risk, (2) genetic susceptibility and response to exposure to arsenic, a known carcinogen (3) methods for assessing causal relationships among risk factors, biomarkers, and disease phenotypes, and (4) genetic contributors to prostate cancer disparities. The long-term goals of our work are to understand toxicity mechanisms and disease biology and to improve our ability to predict disease and target interventions to high-risk sub-populations.

Elena Rios, MD, serves as President & CEO of the National Hispanic Medical Association, (NHMA), representing 50,000 Hispanic physicians in the United States. The mission of the organization is to improve the health of Hispanics. Dr. Rios also serves as President of NHMA's National Hispanic Health Foundation to direct educational and research activities. Dr. Rios also serves on Better Medicare Alliance and the National Hispanic Leadership Agenda Boards of Directors, Centene Health Policy Advisory Committee, Centene Health Equity Committee, Cancer Treatment Centers for America Hispanic Advisory Council, Morehouse Health Equity Committee, Office of Research on Women's Health Advisory Committee, NIH, US Department of Health and Human Services, and the VA National Academic Affiliations Council. Dr. Rios has lectured, published articles and has received several leadership awards.

Kyler Sherman-Wilkins, PhD, is an Assistant Professor of Sociology and Faculty Affiliate in the Gerontology program at Missouri State University. A social demographer and life course sociologist by training, Dr. Sherman-Wilkins' research centers around the social and structural determinants of health and health inequities, particularly as it pertains to cognitive health, across the life course. He is a dedicated and award-winning teacher and adviser who focuses on empowering students to address challenges in their communities through activism and policy. He directs the Health Equity Research Collective (HERC), which is committed to training the next generation of health equity researchers, and also frequently contributes to advisor training through the Academic Advising and Transfer Center's Advisor forums.

Alicia Zhou, PhD, is the Chief Science Officer at Color. Dr. Zhou leads Color's research and scientific affairs team. She is responsible for leading research collaborations with academic institutions, biopharmaceutical companies, and large population initiatives. She is also responsible for managing a team that initiates, executes, and publishes peer-reviewed manuscripts and posters by Color's scientists and engineers. In addition, Dr. Zhou is an active part of Color's market development team for population genomics and population research. Dr. Zhou received her Ph.D. at Harvard and performed her postdoctoral work at UCSF with an emphasis on cancer genetics.

SPEAKER BIOS: SESSION 2

Aisha Dickerson, PhD, is an Assistant Professor at John Hopkins. Dr. Dickerson is also an environmental neuroepidemiologist with primary research interests in environmental risk factors for neurodevelopmental and neurodegenerative disorders. She studies combined environmental and occupational exposures to metals over the life course and subsequent individual and transgenerational neurological outcomes, including autism spectrum disorder, amyotrophic lateral sclerosis, and dementia. Additionally, she investigates the influence of disparities in autism assessment and service provision along with environmental justice issues in underserved communities.

Paul Juarez, PhD, is a Professor and Vice Chair of the Department of Family and Community Medicine and leads the Health Disparities Research Center of Excellence at Meharry Medical College. Dr. Juarez has led efforts throughout his career that bring together trans-disciplinary research teams from multiple universities and research institutes that apply an exposome approach to health disparities research. Dr. Juarez currently serves as the PI of the NIH Tennessee Community Engaged Alliance against COVID (TN CEAL) program to increase vaccine uptake among African Americans and Latinos; an EPA STAR grant that analyzed the combined and cumulative effects of exposures from the natural, built, and social environments on cardio-vascular disease, and the HRSA Tennessee Area Health Education Center, to provide interdisciplinary, primary care training to health professions students. He is immediate past-chair of the USDHHS/OMH Advisory Committee on Minority Health.

Sacoby Wilson, PhD, is an Associate Professor with the Maryland Institute for Applied Environmental Health and Department of Epidemiology and Biostatistics, School of Public Health, University of Maryland College Park. Dr. Wilson has over 15 years of experience as an environmental health scientist in the areas of exposure science, environmental justice, environmental health disparities, community-engaged research including crowd science and community-based participatory research, water quality analysis, air pollution studies, built environment, industrial animal production, climate change, community resiliency, and sustainability. He works primarily in partnership with community-based organizations to study and address environmental justice and health issues and translate research to action. Dr. Wilson is Director of the Community Engagement, Environmental Justice and Health (CEEJH) laboratory. CEEJH is focused on providing technical assistance and research support to communities fighting against environmental injustice and environmental health disparities in the DMV region and across the nation.

Robert Wright, MD, MPH, is a pediatrician, medical toxicologist, and environmental epidemiologist at the Icahn School of Medicine at Mount Sinai. He is the Ethel H. Wise Chair of the Department of Environmental Medicine and Public Health, Co-Director of the Institute for Exposomic Research, and Principal Investigator of an ongoing longitudinal birth cohort in Mexico City (Programming Research in Obesity, Growth, Environment and Social Stress--PROGRESS) in collaboration with the National Institute of Public Health, Mexico. He also founded the (Metals Assessment Targeting Community Health) MATCH study in Tar Creek, Oklahoma. Dr. Wright studies chemical mixtures, social stressors as a modifier of chemical toxicity, and the role of genetics/epigenetics in modifying or mediating chemical toxicity. He is an international advocate for research on exposomics—the measure of all health relevant human exposure throughout the lifespan. He has published over 200 research studies and has served on numerous international and national committees and advisory boards.

Ami Zota, PhD, is an Associate Professor in the Department of Environmental & Occupational Health at the George Washington University Milken School of Public Health. Dr. Zota's work seeks to secure environmental justice and improve health equity through advancements in science, policy, and clinical practice. Her research identifies novel pathways linking social disparities, environmental exposures, and reproductive and children's health. She received a career development award from the National Institutes of Health for her research on environmental health disparities and was recently recognized as a Pioneer Under 40 in Environmental Public Health by the Collaborative on Health and the Environment. Dr. Zota is equally committed to developing innovative approaches for science translation so that her research can more effectively be used to inform individual and collective decision-making.

SPEAKER BIOS: SESSION 3

Karen Bailey, PhD is an Assistant Professor in the Environmental Studies Program at the University of Colorado Boulder. She is a systems researcher interested in understanding how human-environment interactions impact human health and well-being and natural resources. Her work is focused in conservation landscapes and climate-vulnerable communities in Southern and East Africa and she is interested in sustainable livelihoods, wildlife conservation, global change, and coupled human natural systems. She also has a strong commitment to justice, equity, diversity, and inclusion (JEDI) in environmental work and STEM more broadly.

Na'taki Osborne Jelks, PhD, is an Assistant Professor in the Environmental and Health Sciences Program at Spelman College in Atlanta, GA. As an environmental health scientist, Na'Taki develops, implements, and evaluates community-based initiatives that empower low-income and communities of color to reduce exposure to environmental health hazards and improve health and quality of life. Currently, she investigates urban environmental health disparities, cumulative risk assessment, and the connection between urban watersheds, pollution, the built environment, green space, and health. She was recently appointed to the National Environmental Justice Advisory Council (NEJAC), a federal advisory committee that works to integrate environmental justice into the Environmental Protection Agency's programs, policies and activities as well as to improve the environment or public health in communities disproportionately burdened by environmental harms and risks.

Christine Johnson, PhD, VMD, MPVM, Professor of Epidemiology and Ecosystem Health and Director of the EpiCenter for Disease Dynamics at the One Health Institute. Her work is committed to transdisciplinary research to characterize impacts of environmental change on animal and human health, inform preparedness for emerging threats, and guide public policy at the intersection of emerging disease and environmental health. Dr. Johnson's research has pioneered new approaches to characterization of emerging threats and disease dynamics at the animal-human interface in rapidly changing landscapes that constitute "fault lines" for disease emergence, disease spillover and subsequent spread. Her activities serve pressing research needs at the boundaries of science and policy, such as investigations into early indicators of unusual morbidity and mortality in wildlife, and impacts of land use and climate change on disease in populations.

Patrick Kinney, PhD, is affiliated faculty with the Boston University Institute for Sustainable Energy, joined the School of Public Health faculty in January 2017 as the inaugural Beverly Brown Professor of Urban Health. He was trained as an air pollution epidemiologist and came to BU after two decades at the Columbia University Mailman School of Public Health. In his time at Columbia, he showed how warming temperatures make air pollution like urban smog worse, and more harmful to populations. He led the development of an integrated modeling system to predict the air pollution health effects of climate change into the future. Working at the intersection of climate change, health, and policy, Kinney has conducted research from the South Bronx to China to rapidly growing cities throughout Africa. At Columbia, he also created an interdisciplinary research and teaching program examining the potential impacts of climate change on health.

SPEAKER BIOS: SESSION 4

Rick Woychik, National Institute of Environmental Health Sciences: Dr. Richard Woychik is Director of the National Institute of Environmental Health Sciences and the National Toxicology Program as well as PI for the Mammalian Genome Research Group in the Division for Intramural Research at NIEHS. He is a molecular geneticist with a Ph.D. in molecular biology from Case Western Reserve University and postdoctoral training with Dr. Philip Leder at Harvard Medical School. He spent almost 10 years at Oak Ridge National Laboratory rising in the ranks to become head of the Mammalian Genetics Section and then director of the Office of Functional Genomics. In August 1997, he assumed the role of vice chairman for research and professor in the Department of Pediatrics at Case Western Reserve University. In 1998, he moved to the San Francisco Bay area, first as the head of the Parke-Davis Laboratory for Molecular Genetics and then as chief scientific officer at Lynx Therapeutics. He returned to academics as the president and CEO of The Jackson Laboratory in August 2002 and served in that role until January 2011.

Richard Hodes, National Institute on Aging: Richard Hodes is the Director of the National Institute on Aging (NIA) at the National Institutes of Health (NIH). Dr. Hodes, a leading researcher in the field of immunology, was named to head the NIA in 1993. He has devoted his tenure to the development of a strong, diverse and balanced research program. This has led to new and innovative ways to conduct research, share data and translate findings into practice. Dr. Hodes also

directs the Federal effort to find effective ways to treat or prevent Alzheimer's disease, as the NIA is the lead NIH institute for this mission. Dr. Hodes' research laboratory in the National Cancer Institute focuses on the cellular and molecular mechanisms that regulate the immune response. A graduate of Yale University, Dr. Hodes received his M.D. from Harvard Medical School. He is a Diplomat of the American Board of Internal Medicine, a member of The Dana Alliance for Brain Initiatives, a Fellow of the American Association for the Advancement of Science and a member of the National Academy of Medicine at the National Academies of Sciences, Engineering and Medicine.

Shannon Zenk, National Institute of Nursing Research: Dr. Shannon N. Zenk is the Director of the National Institute of Nursing Research. She was previously a Nursing Collegiate Professor in the Department of Population Health Nursing Science at the University of Illinois Chicago (UIC) College of Nursing, and a fellow at the UIC Institute for Health Research and Policy. She was elected as a fellow of the American Academy of Nursing in 2013, received the President's Award from the Friends of the National Institute of Nursing Research in 2018, was inducted into the International Nurse Researchers Hall of Fame in 2019, and elected as a member of The National Academy of Medicine in 2021. She has spent time as a visiting scholar in Rwanda and Australia. Dr. Zenk's research focuses on social inequities and health with a goal of identifying effective, multilevel approaches to improve health and eliminate racial/ethnic and socioeconomic health disparities. Her research portfolio has included NIH-supported work into urban food environments, community health solutions and veterans' health.

Gary Ellison, National Cancer Institute: Dr. Gary L. Ellison is Chief of the Environmental Epidemiology Branch in the Epidemiology and Genomics Research Program (EGRP), Division of Cancer Control and Population Sciences (DCCPS), at the National Cancer Institute (NCI). He oversees a program of extramural research focused on modifiable factors and risk of cancer. Dr. Ellison leads a group of Program Directors within EEB with expertise that spans all domains of the exposome, including the general external (e.g., broader social context), specific external (e.g., lifestyle factors, environmental pollutants, chemical, physical and infectious agents), and internal environments (e.g., biomarkers of effect, early damage). Dr. Ellison joined EGRP as an Epidemiologist and Program Director in 2008, and he became Chief of EEB in 2016. Dr. Ellison's doctoral training was in cancer epidemiology with an emphasis on racial disparities in prostate cancer risk. He completed postdoctoral training at Howard University's National Human Genome Center in Washington, DC and at NCI as a Cancer Prevention Fellow.

SPEAKER BIOS: SESSION 5

Jamaji Nwanaji-Enwerem, MD, PhD, MPP: Dr. Jamaji Nwanaji-Enwerem is an Emergency Medicine Resident Physician and Adjunct Assistant Professor of Environmental Health at Emory University School of Medicine and Emory Rollins School of Public Health. He is an NIH National Research Service Award Principal Investigator, a former elected member of the International

Society of Exposure Science Board of Directors, and was honored as a National Minority Quality Forum 2021 40 Under 40 Leader in Health. Dr. Nwanji-Enwerem is the recipient of numerous prestigious fellowships including the Paul & Daisy Soros Fellowship, the Zuckerman Fellowship at the Harvard Center for Public Leadership, the UNCF/Merck Research Fellowship, and the Agents of Change in Environmental Justice Fellowship. His research leverages molecular biomarkers to improve our understanding of how chemical (i.e. toxins), physical, and social environmental exposures impact human aging and health – particularly for the underserved. His work also emphasizes the need for public policy solutions in efforts aimed at achieving greater health equity and environmental justice. In addition to his academic efforts, he is the executive director of EInd, a community-oriented health and environmental improvement initiative, and currently serves on the White House Office of Public Engagement's Roundtables for Clinician Innovation and Health Equity.

Martin Mulvihill, PhD: Dr. Marty Mulvihill is the co-founder and a partner in Safer Made, a mission-driven venture capital fund investing companies and technologies that reduce human exposure to harmful chemicals. He is also a researcher and advisor at the Berkeley Center for Green Chemistry, which he helped create and where he served as the founding initial Executive Director from 2010-2015. He received his Ph.D. in 2009 from the University of California, Berkeley in Chemistry and Nanoscience. Dr. Mulvihill's research and work have focused on developing technologies that help provide access to clean drinking water and the creation of safer chemicals and materials based on biological feedstocks. He has a number of publications and patents related to the detection of arsenic in drinking water, and he has developed safer chemicals and materials for the personal care, construction, electronics, and textile industries.

Chandra Jackson, PhD: Dr. Chandra L. Jackson is an Earl Stadtman Investigator who leads the Social and Environmental Determinants of Health Equity Research group in the Epidemiology Branch of the National Institute of Environmental Health Sciences with a joint appointment in the National Institute on Minority Health and Health Disparities. Dr. Jackson investigates physical and social environmental factors that impact health disparities and subsequent risk of cardiometabolic dysfunction. Her research has been presented at national as well as international scientific conferences and published in both academic journals like Lancet, JAMA Internal Medicine, the American Journal of Epidemiology, and SLEEP as well as major media outlets such as the US News & World Report and The New York Times. She has earned merit-based awards, including the Presidential Early Career Award for Scientists and Engineers, Charlotte Silverman Award for outstanding commitment to public health, policy, and community outreach at Johns Hopkins, and an Outstanding Fellows Award at Harvard. She earned a Master's degree in Epidemiology from the Harvard T.H. Chan School of Public Health, a PhD in Epidemiology from The Johns Hopkins Bloomberg School of Public Health, and was an Alonzo Smythe Yerby Postdoctoral Fellow at the Harvard T.H. Chan School of Public Health.

Kim Fortun, PhD: Dr. Kim Fortun is a Professor in the University of California Irvine's Department of Anthropology. Her research and teaching focus on environmental risk and disaster, and on experimental ethnographic methods and research design. Her research has examined how

people in different geographic and organizational contexts understand environmental problems, uneven distributions of environmental health risks, developments in the environmental health sciences, and factors that contribute to disaster vulnerability. She also runs the EcoEd Research Group, which turns ethnographic findings about environmental problems into curriculum delivered to young students and serves as co-editor for a book series designed to connect academic research to public problems and policy, reaching audiences in different regions of the world.