



AGRICULTURE NUTRITION HEALTH & THE ENVIRONMENT IN AFRICA

November 6-7, 2017

**Mon, Nov 6: Joseph B. Martin Conference Center, Boston, MA
Tues, Nov 7: Harvard Kennedy School, Cambridge, MA**

Harvard T.H. Chan School of Public Health | Harvard Kennedy School Belfer Center for Science and International Affairs | Harvard University Center for African Studies | Africa Academy for Public Health
with support from the Harvard University Office of the Provost

A conference for leaders, scientists, and students to highlight the intersection of nutrition and health, agriculture, and the environment in Africa toward solving complex health and development challenges.



HARVARD
T.H. CHAN
SCHOOL OF PUBLIC HEALTH

 HARVARD Kennedy School
BELFER CENTER
for Science and International Affairs



HARVARD UNIVERSITY
CENTER FOR AFRICAN STUDIES

MONDAY, NOVEMBER 6, 2017

Joseph B. Martin Conference Center

Moderator **Ramadhani Abdallah Noor**, Africa
Academy for Public Health

1:00pm Opening Remarks
Dean Michelle Williams, Harvard T.H.
Chan School of Public Health

1:15pm Welcome and Introduction
Wafaie Fawzi, Harvard T.H. Chan School
of Public Health

1:45pm Keynote: Nutrition-Sensitive Agriculture
Patrick Webb, Tufts University Friedman
School of Nutrition Science and Policy

2:30pm Break

2:45pm Panel: Food Systems, Diet, and Nutrition
Eileen Kennedy, Tufts University Friedman
School of Nutrition Science and Policy
Habtamu Fekadu, Save the Children
Nilupa Gunaratna, Purdue University
Moderated by: **Isabel Madzorera**,
Harvard T.H. Chan School of Public Health

4:00pm Plenary: Lessons on Agricultural
Development for Nutrition from China
Tang Lixia, China Agricultural University


4:45pm Closing Remarks
Walter Willett, Harvard T.H. Chan School
of Public Health

5:00pm Poster Session and Reception
Elements Café

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TUESDAY, NOVEMBER 7, 2017

Bell Hall, Belfer Building, Harvard Kennedy School

Moderator **Dominic Masha**, Africa Academy for Public Health

9:00am Welcome and Introduction
Calestous Juma, Harvard Kennedy School

9:15am Opening Remarks
Dean Douglas Elmendorf, Harvard Kennedy School

9:30am Keynote: Agriculture, food and nutrition security in Africa: The time is now
Kanayo Nwanze, International Fund for Agricultural Development

10:15am Panel: Food Systems and the Environment
Christopher Golden, Planetary Health Alliance
James McCann, Boston University
Rainer Sauerborn, Heidelberg University
Moderated by: **Lindsay Jaacks**, Harvard T.H. Chan School of Public Health

11:30am Plenary: Agriculture, Nutrition, Health, and the Environment: What Does Good Policy Look Like?
Robert Paarlberg, Harvard Kennedy School

12:15pm Closing Remarks
Emmanuel Akyeampong, Harvard University Center for African Studies

12:30pm End of Program

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SPEAKER BIOGRAPHIES



Emmanuel Akyeampong, MA, PhD, is Ellen Gurney Professor of History and of African and African American Studies; and Oppenheimer Faculty Director of the Harvard University Center for African Studies. Professor Akyeampong is a Fellow of the Ghana Academy of Arts and Sciences and a Corresponding Fellow of the Royal Historical Society, UK. He serves as the president of the African Public Broadcasting Foundation, a partnership of academic researchers, African broadcasters and African producers dedicated to the production of development oriented programs for broadcast on television, radio and the Internet. He is a co-founder and director of the International Institute for the Advanced Study of Cultures, Institutions and Economic Enterprise based in Accra, Ghana. He served as chair of the Committee on African Studies at Harvard from July 2002 to June 2006. Professor Akyeampong has been awarded several research fellowships, and from 1993 to 1994, he was the Zora Neale Hurston Fellow at the Institute for Advanced Study and Research in the African Humanities at Northwestern University. He was named a Corresponding Fellow of the Royal Historical Society in 2002, and was nominated to be a Fellow of the Ghana Academy of Arts and Sciences.



Douglas Elmendorf, AM, PhD, is Dean of the Faculty at the John F. Kennedy School of Government at Harvard University, where he also serves as the Don K. Price Professor of Public Policy. A leading economist, Dean Elmendorf served as the director of the Congressional Budget Office from January 2009 through March 2015. Prior to joining CBO, he was a senior fellow in economics and the Edward M. Bernstein Scholar at the Brookings Institution, where he also served as co-editor of the Brookings Papers on Economic Activity and director of The Hamilton Project. He was previously an assistant professor at Harvard University, a principal analyst at CBO, a senior economist at the White House's Council of Economic Advisers, a deputy assistant secretary for economic policy at the Treasury Department, and an assistant director of the Division of Research and Statistics at the Federal Reserve Board. In those positions, he worked on budget policy, health care issues, the macroeconomic effects of fiscal policy, Social Security, income security programs, financial markets, macroeconomic analysis and forecasting, and other topics. Dean Elmendorf earned his Ph.D. and A.M. in economics from Harvard University, where he was a National Science Foundation graduate fellow.



Wafaie Fawzi, MBBS, MPH, MS, DrPH, is the Richard Saltonstall Professor of Population Sciences, Professor of Nutrition, Epidemiology, and Global Health and Chair of the Department of Global Health and Population at Harvard T.H. Chan School of Public Health. His research has generated significant new knowledge on the discovery and translation of interventions to enhance maternal and child health and human development, with emphasis on nutritional factors. His research includes the epidemiology of adverse pregnancy outcomes, childhood infections, and HIV, TB and malaria among populations in Tanzania, Ethiopia, India and other developing countries. Dr. Fawzi established a Forum on Nutrition, Agriculture, and Health at Harvard that addresses and documents existing gaps; advances the research agenda; and convenes multi-disciplinary partners. He is a co-founder of the Africa Academy of Public Health, a Harvard affiliate registered in Tanzania with the mission to improve health in the African region through collaborative research, education, and knowledge translation. He also established the Africa Research, Implementation Science, and Education (ARISE) Network, a partnership of leading academic institutions in Africa, and the China Harvard Africa Network (CHAN) to advance cutting-edge training of public health leaders through South-South-North institutional partnerships.

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Habtamu Fekadu, PhD, is Senior Nutrition Director at Save the Children (US), where he is responsible for leading global nutrition programs. A nutritionist and pediatrician by training, Dr. Fekadu has been working in child health and nutrition for the last 20 years, with more than 10 years of nutrition program design, management, and leadership experience. He managed USAID's nutrition work in Ethiopia for over eight years, including the Nutrition and HIV project, USAID's flagship ENGINE (Empowering New Generations to Improve Nutrition and Economic opportunities) program, and the large scale multi-sectoral nutrition and WASH project, Growth through Nutrition. Dr. Fekadu led the design of the first multi-sectoral national nutrition plan of action for Ethiopia working with UNICEF and was involved in the design of the Community Based Nutrition Program of UNICEF in Ethiopia. He has made substantial contributions to the integration of nutrition-sensitive interventions into Ministry of Agriculture programs and strategies in the country. He has presented at international conferences such as the International Conference on Nutrition in Spain, Save the Children's global nutrition symposium, and the Alive and Thrive stunting reduction workshop, among others. Dr. Fekadu has published two papers and delivered seminars on multi-sectoral nutrition programming.



Christopher Golden, MPH, PhD, is a Research Scientist in the Department of Environmental Health at Harvard T.H. Chan School of Public Health and Associate Director of the Planetary Health Alliance. Dr. Golden is an ecologist and epidemiologist focused on the nexus of trends in global environmental change and human health, particularly centered on the role of terrestrial wildlife and fisheries in supporting the nutrition of people living in the developing world. Since 1999, Dr. Golden has been conducting environmental and public health research in Madagascar where he created a local research organization called MAHERY (Madagascar Health and Environmental Research). In 2014, Dr. Golden was named one of 14 National Geographic Emerging Explorers, an award that recognizes "uniquely gifted and inspiring young adventurers and scientists—explorers who are already making a difference early in their careers." He is one of 12 members on the CBD/WHO joint task force asked to synthesize connections between biodiversity and human health. Dr. Golden is also one of 40 members of the Intergovernmental Platform on Biodiversity and Ecosystem Services' working group dedicated to creating the methodological framework by which all future ecosystem services assessments should follow. Dr. Golden holds a BA in Environmental Conservation from Harvard College, and an MPH in Epidemiology and PhD in Environmental Science, Policy and Management from the University of California, Berkeley.



Nilupa Gunaratna, MS, PhD, is an Assistant Professor at Purdue University in the Department of Nutrition Science, the Public Health Graduate Program, and the Cluster on Advanced Qualitative and Quantitative Methodologies for Social, Behavioral, and Health Sciences. Her research aims to identify and evaluate multisectoral interventions, particularly those involving agriculture, that can equitably and sustainably improve nutrition and health outcomes at scale in developing countries. With a focus on Africa, she has conducted randomized studies and surveys on the effectiveness, consumer acceptance, and strategies for promotion and scaling up of nutrition-sensitive agricultural technologies; evaluation of large-scale integrated nutrition and agriculture programs; and clinical trials on the safety and efficacy of nutrition-specific interventions to reduce the risks of adverse nutrition and health outcomes among neonates, infants, young children, adolescent girls, and women of reproductive age in low resource settings. Her current work evaluates interventions and technologies such as genetic and agronomic biofortification, promotion of improved livestock, and the use of peer groups to encourage positive behaviors relating to child feeding, early childhood stimulation, sanitation and hygiene, and gender relationships. Dr. Gunaratna holds Master's Degrees in Agronomy and Statistics and a PhD in Statistics. Prior to joining the Purdue faculty, she was a Research Associate in the Department of Global Health and Population at the Harvard T.H. Chan School of Public Health.

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Lindsay Jaacks, PhD, is an Assistant Professor of Global Health in the Department of Global Health and Population at Harvard T.H. Chan School of Public Health. Dr Jaacks' research focuses on improving our understanding of the global drivers of the epidemiological transition from communicable to non-communicable diseases. Specifically, she is interested in the complex interactions between nutritional and environmental exposures within the food system and the role that these interactions play in the etiology of obesity, diabetes, and cardiovascular disease. She has worked on a number of epidemiological studies in China, India, and the United States. Current projects include persistent organic pollutants and diabetes in India; assessment of persistent organic pollutants and chemicals and diabetes in the United States; and cookstove fuel use and blood pressure in China. She is a co-investigator for a large, multi-country (India, Rwanda, Guatemala, and Peru) household air pollution intervention trial. She is also working on several projects relating to understanding drivers of food choice among overweight women in low- and middle-income countries, and new approaches to quantifying the nutrition transition. Dr. Jaacks has served as a consultant for the UK Department for International Development on addressing overweight and obesity in low- and middle-income countries and for RTI International on policies to prevent diabetes in the United States. She is a Visiting Professor at the Public Health Foundation of India.



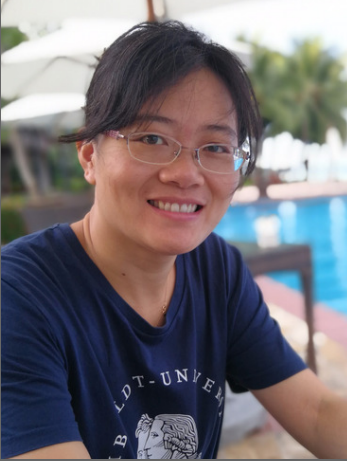
Calestous Juma, PhD, is Professor of the Practice of International Development at Harvard Kennedy School; Director of the Science, Technology, and Globalization Project at the Belfer Center for Science and International Affairs; and Faculty Chair of the Edward S. Mason Fellows Program. He also directs the Center's Agricultural Innovation Policy in Africa and Health Innovation Policy in Africa projects both funded by the Bill & Melinda Gates Foundation. Professor Juma serves as Faculty Chair of the Innovation for Economic Development and Technology, Innovation and Entrepreneurship in Africa executive programs. He is a former Executive Secretary of the UN Convention on Biological Diversity and Founding Director of the African Centre for Technology Studies in Nairobi. He co-chaired the African Union's High-Level Panel on Science, Technology and Innovation. He is on the jury of the Queen Elizabeth Prize for Engineering, the Africa Prize for Engineering Innovation, and the Africa Food Prize. He has been elected to several scientific academies including the Royal Society of London, the US National Academy of Sciences, the World Academy of Sciences, the UK Royal Academy of Engineering and the African Academy of Sciences. He holds a doctorate in science and technology policy studies and has written widely on science, technology, and environment. Juma serves on the boards of several international bodies including the Aga Khan University and the Pan-African University. He is editor of the International Journal of Technology and Globalisation and the International Journal of Biotechnology.



Eileen Kennedy, MS, DSc, is Professor and former Dean of the Friedman School of Nutrition Science and Policy at Tufts University. Dr. Kennedy's research focuses on assessing the health, nutrition, diet and food security impacts of policies and programs; nutrient density and diet diversity; and agriculture nutrition linkages. She is a member of the High Level Panel of Experts on Food Security and Nutrition of the UN Committee on World Food Security and was formerly a member of the United Nations Advisory Group on Nutrition. She founded and was the first Executive Director of the United States Department of Agriculture Center for Nutrition Policy and Promotion. Dr. Kennedy created the Healthy Eating Index, which is used as a single summary measure of diet quality. She is currently a member of the World Economic Forum's Global Council on Food Security and Nutrition. Previously, Dr. Kennedy was Global Executive Director of the International Life Sciences Institute, and co-chair of the US National Nutrition Summit. Dr. Kennedy holds an undergraduate degree from Hunter College, two master's degrees from Pennsylvania State University, and a Doctor of Science in Nutrition from Harvard T.H. Chan School of Public Health.

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Tang Lixia, PhD, is an Associate Professor of Development Studies in the College of Humanities and Development Studies at China Agricultural University in Beijing, China. Dr. Lixia's research focuses on poverty analysis and livelihood development, social public policy analysis, international development aid and Chinese engagements in Africa. Her research covers more than 20 provinces in China and several developing countries, including Zambia, India, Thailand, Zimbabwe, Malawi, Tanzania and Ethiopia. Previously, she participated in the Sino-German research cooperation "Conservation of cultural landscapes through diversification of resource-use strategies and technologies for agro-ecosystems in mountainous Southwest China" from 2008 to 2010. Dr. Lixia is from Anhui province in China and holds a PhD in development studies from China Agricultural University and a PhD in agricultural science from Humboldt University of Berlin (2013).



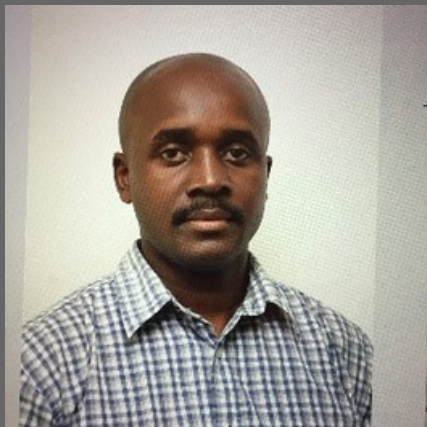
Isabel Madzorera, MS, is a Zimbabwean national and a 4th year doctoral student in Nutritional Epidemiology at the Harvard T.H. Chan School of Public Health. Isabel has a BSc degree in Nutrition from the University of Zimbabwe and a Master's degree in Food Policy and Nutrition from Tufts University. Prior to her doctoral studies, Isabel worked in the area of international nutrition and development for more than 10 years, mostly in Southern Africa. Isabel's work experience includes maternal and child nutrition and nutrition-sensitive agriculture intervention design and management with NGOs including Save the Children and the International Institute of Tropical Agriculture (IITA). Isabel's research interests are around the intersections of nutrition, agriculture and development and promoting sustainable diets. More specifically, her dissertation research focuses on the effects of maternal diets on pregnancy and child growth outcomes, as well as child diets and their effect on nutritional recovery from severe acute malnutrition in low income countries. In her free time Isabel likes to try out and cook different foods from all over the world.



James McCann, MA, PhD, is Professor of History and Associate Director for Development at the African Studies Center at Boston University. Professor McCann is a well-known scholar on the history of the food, ecology, and agriculture of Africa. His research focuses on the agricultural and ecological history of Africa, Ethiopia, and the Horn of Africa, field research methods in African studies, the agro-ecology of tropical disease, and the history of food/cuisine in Africa and the Atlantic world. He previously served as Director, ad interim, of the Frederick S. Pardee Center for the Study of the Longer-Range Future. Professor McCann is author of six books and numerous articles in the area of agricultural and environmental history. He received a John S. Guggenheim Foundation Fellowship in 2012-2013 and was a Fulbright fellow in Ethiopia for completion of his sixth book on the history of malaria in Ethiopia. He received the George Perkins Marsh Prize for Best Book in Environmental History for *Maize and Grace*, and *Stirring the Pot* won a 2011 "Best in the World" award from Paris' *Gourmand Magazine*. He has been a two-time finalist for the Melville Herskovits Prize for Best Book in African Studies, received the Choice Magazine Award for Outstanding Books, and was named to the Outstanding book award list. In 2014 he was elected to the Ethiopian Academy of Science and was also named the 2014 Distinguished Scholar by the American Society for Environmental History.

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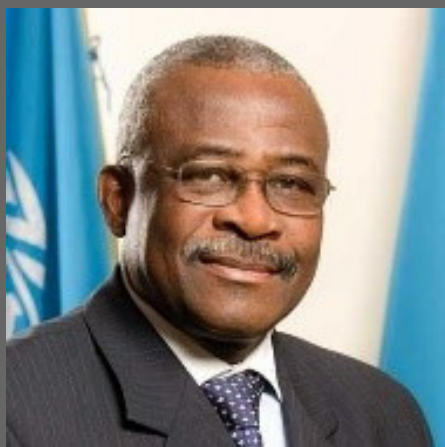
SPEAKER BIOGRAPHIES



Dominic Masha, MD, PhD, is a Senior Research Scientist at Africa Academy for Public Health in Tanzania. An epidemiologist with medical training, Dr. Masha has vast experience in developing and leading health research projects, including hospital- and field-based studies, data analysis and evaluation of maternal and child health effectiveness studies. His current work includes nutrition-sensitive interventions and control of non-communicable diseases in Tanzania. He was previously a project leader at Ifakara Health Institute, where he was responsible for leading maternal and child health clinical trials. He has more than 15 publications in international peer-reviewed journals focused on maternal and child health. Dr. Masha's PhD thesis focused on maternal health and medicine safety in pregnancy. He is an active member of Tanganyika Medical Association, the Malaria in Pregnancy Consortium, and the American Society of Tropical Medicine and Hygiene. Dr. Masha has a medical background and a PhD in Epidemiology from Basel University, Switzerland, and was a postdoctoral research fellow at Harvard T.H. Chan School of Public Health.



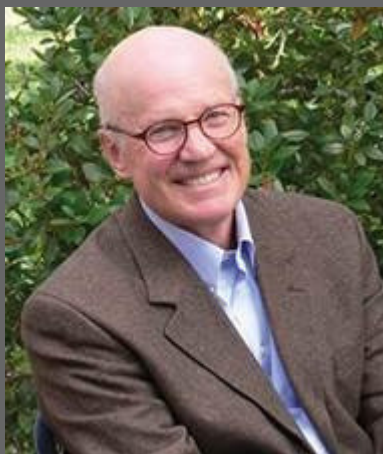
Ramadhani Abdallah Noor, MPH, MD, is a doctoral candidate in Nutrition Epidemiology at the Harvard T.H. Chan School of Public Health and a Research Scientist at Africa Academy for Public Health in Tanzania. He is a physician with training in public health and nutrition with over 10 years of experience practicing medicine and conducting public health research in Tanzania and globally. His research is primarily in the area of micronutrients and especially the implementation of large-scale food fortification programs and nutrition-sensitive agriculture. He has strong experience in international research and implementation science for programs in nutrition and health, with a focus on maternal and child health. Dr. Noor has worked with various teams and field sites in Africa, in close collaboration with partners from the US. He has increasing zeal and competence in designing, testing, and delivery of integrated interventions for improving nutrition and health of women and children in resource-limited settings.



Kanayo F. Nwanze, PhD, DSc, is the immediate former President of the International Fund for Agricultural Development (2007–2017). Currently, he is a Special Goodwill Ambassador for Zero Hunger Africa Region and serves on the Consultative Group on International Agricultural Research (CGIAR) System Management Board and the Board of the Alliance for a Green Revolution in Africa. A Nigerian national, Dr. Nwanze has a strong record as an advocate and leader of change with a keen understanding of the complexity of development issues with emphasis on smallholder producers and rural development. He has over 40 years of experience across three continents in poverty reduction through agriculture, rural development and research. Previously, he was Director-General of the Africa Rice Center for a decade. In addition, Nwanze has held senior positions at a number of research centers affiliated with CGIAR in Africa and Asia. He obtained his PhD in agricultural entomology from Kansas State University (1975). He has received several national honours in recognition of his service to the rural poor of developing countries. He was awarded a doctorate of science degree honoris causa from McGill University, Canada in 2012 and University of Warwick, UK in 2015. He has published extensively and is author of *A Bucket of Water: Reflections on Sustainable Rural Development* (2017). Dr. Nwanze was awarded the inaugural Africa Food Prize in 2016 for his outstanding leadership and passionate advocacy in putting Africa's smallholder farmers at the center of the global agricultural agenda.

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Robert Paarlberg, PhD, is Adjunct Professor of Public Policy at the Harvard Kennedy School, a Visiting Professor of Environmental Science and Public Policy at Harvard College, and an Associate at the Weatherhead Center for International Affairs at Harvard University. His principal research interest is in international agricultural and environmental policy, with a focus on farming technologies and poverty in the developing world. Dr. Paarlberg has served as a legislative aide in the U.S. Senate, and as an officer in the U.S. Navy Intelligence Command. He has served as a member of the Board of Agriculture and Natural Resources at the National Research Council of the National Academies, a member of the Board of Directors of Winrock International, a member of the Emerging Markets Advisory Committee at the U.S. Department of Agriculture, a scientific liaison officer to IFPRI from the U.S. Agency for International Development, and as a consultant to the National Intelligence Council, USAID, IFPRI and the World Bank. He also has published books on the use of food as a weapon, international agricultural trade negotiations, environmentally sustainable farming in developing countries, US agricultural policy, genetically engineered crops, and America's over-consumption of food and fossil fuels.



Rainer Sauerborn, MD-PhD, DrPH, MSc, MPH, is the former Head of the Institute of Public Health at the Heidelberg University Hospital. He was guest professor of Global Health and Climate Change at Umeå University/Sweden and at the Université Sorbonne Paris Cité. He trained as a pediatrician in Heidelberg and London, and received his public health training at the Harvard T.H. Chan School of Public Health. In the early 1980s, he spent three years as a District Medical Officer in Nouna, Burkina Faso. Since then, he helped to set up a Health and Demographic Surveillance System in the same town and was one of the founders of the INDEPTH network of such centers, which currently has 56 members in Africa and Asia. He served on the Scientific Council on Global Environmental Changes to the German Federal Government from 2000-2004. Dr. Sauerborn was a lead author of the health chapter of the last IPCC report. For the past 10 years, his research has focused on the impact of climate change on health in Sub-Saharan Africa, most recently on the nexus of weather variability, agricultural yields and childhood under-nutrition. He has developed three MOOCs on Climate Change and Health, one of them for policy-makers at the COP21 in Paris.



Patrick Webb, MA, PhD, is the Alexander McFarlane Professor of Nutrition at the Friedman School of Nutrition Science and Policy at Tufts University. Dr. Webb has vast expertise in food policy analysis, agriculture systems, international nutrition programming, and emergency relief. His ongoing research involves humanitarian policy and practice, development policy, micronutrient deficiencies, food system development, aflatoxins and nutrition outcomes, and implementation science. He is engaged in research and policy guidance around the globe as Director for USAID's Feed the Future Nutrition Innovation Lab (Nepal, Uganda, Malawi, Bangladesh, Egypt and Cambodia), and leads the US government's Food Aid Quality Review (Burkina Faso, Sierra Leone and Malawi). Dr. Webb holds an endowed chair at the Friedman School, as well as appointments at the Fletcher School of Law and Diplomacy at Tufts University, at Patan Academy of Health Sciences in Kathmandu, Nepal, and at the University of Hohenheim in Stuttgart, Germany. Webb was previously Chief of Nutrition for the United Nations World Food Programme, and a Research Fellow at the International Food Policy Research Institute.

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Walter Willett, MD, DrPH, is Professor of Epidemiology and Nutrition at Harvard T.H. Chan School of Public Health and Professor of Medicine at Harvard Medical School. Dr. Willett has focused much of his work over the last 40 years on the development of methods, using both questionnaire and biochemical approaches, to study the effects of diet on the occurrence of major diseases. He has applied these methods starting in 1980 in the Nurses' Health Studies I and II and the Health Professionals Follow-up Study. Together, these cohorts that include nearly 300,000 men and women with repeated dietary assessments, are providing the most detailed information on the long-term health consequences of food choices. Dr. Willett has published over 1,800 articles primarily on lifestyle risk factors for heart disease and cancer and has written the textbook, *Nutritional Epidemiology*, published by Oxford University Press, now in its third edition. He also has written four books for the general public. Dr. Willett is among the top three most cited persons in all areas of science. He is a member of the National Academy of Medicine of the National Academy of Sciences and the recipient of many national and international awards for his research. Dr. Willett studied food science at Michigan State University, and graduated from the University of Michigan Medical School before obtaining a Doctorate in Public Health from Harvard T.H. Chan School of Public Health.



Michelle Williams, SM, ScD, is Dean of the Faculty at Harvard T.H. Chan School of Public Health, an internationally renowned epidemiologist and public health scientist, an award-winning educator, and a widely recognized academic leader. Prior to becoming Dean on July 1, 2016, she was Professor and Chair of the Department of Epidemiology and Program Leader of the Population Health and Health Disparities Research Programs at Harvard's Clinical and Translational Sciences Center (Harvard Catalyst). Previously, Dean Williams was a Professor of Epidemiology at the University of Washington (UW) School of Public Health. While at the UW, she was active in the Center for Perinatal Studies at the Swedish Medical Center in Seattle, becoming co-director from 2000 to 2011. From 1992 to 2010, she was an affiliate investigator at the Fred Hutchinson Cancer Research Center in Seattle, and from 2008 to 2011 she held a joint appointment in global health at the UW. Dean Williams's scientific work places special emphasis in the areas of reproductive, perinatal, pediatric, and molecular epidemiology. She has published more than 425 peer-reviewed research papers ranging from studies of modifiable behavioral and environmental determinants of adverse health outcomes to genetic and genomic studies of common complications of pregnancy and chronic disorders among children and adults. Dean Williams has a master's in civil engineering from Tufts University, and master's and doctoral degrees in epidemiology from the Harvard T.H. Chan School of Public Health and Harvard University.

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