

Engaging a Trusted Scientific Network in Southeast Asia to Counter Misleading Information about Biological Threats

Committee

Jeanne Fair

Co-Chair

Jeanne Fair, Ph.D. is a scientist in Biosecurity & Public Health Group with a focus in epidemiology and wildlife disease ecology. Dr. Fair's research interest is to support biosurveillance and zoonotic infectious disease detection capabilities in wildlife, animals, and humans. Dr. Fair is dedicated to cooperative engagement for strengthening capabilities for biosurveillance around the world. This includes building research collaborative networks and learning and sharing how to foster strong scientific collaborations and research partnerships.

Dung Le Tien

Co-Chair

Dung Le Tien, Ph.D. is a Vietnamese-born and internationally trained biotechnologist who is currently working in the seed industry across Asia Pacific for a multinational corporation. He is currently an executive member of the Viet Nam Association for Biochemistry and Molecular Biology (VABMB). He has been serving as a grant panel member for the Viet Nam Foundation for Science and Technology Development (NAFOSTED) since 2015. He has strong interest in evidence-based science communication. Dr. Le's PhD degree in Biochemistry and Molecular Biology was awarded by Chungbuk National University, South Korea in 2005.

Amna Greaves

Member

Amna Greaves, M.S. is an Assistant Group Leader in the AI Software Architectures and Algorithms group at MIT Lincoln Laboratory. She has been with the Laboratory since 2007 in several roles. Ms. Greaves has 30+ years of engineering experience, specializing in Human-AI teaming and real-time command and control for robotics, sensors, and systems. She has worked at Raytheon, MITRE, Foster-Miller and other DoD-focused technology companies before joining MIT Lincoln Laboratory. She received her MS in Mechanical Engineering from Columbia University in 1988 and BE in Mechanical Engineering from SUNY Stony Brook in 1987. Ms. Greaves has been PMP accredited since 2007. Among other awards, Amna and her team received the Department of Homeland Security - Science and Technology Undersecretary's award for the prototype development of a Next Generation First Responder system to rapidly detect and locate victims during a disaster based on cellphone and drone technologies.

Shikha Jain

Member

Dr. Shikha Jain is a board-certified hematology and oncology physician. She is a tenured associate professor of medicine in the Division of Hematology and Oncology at the University of Illinois Cancer Center in Chicago. She is the Director of Communication Strategies in Medicine and the Associate Director of Oncology Communication & Digital Innovation. Her clinical focus is GI oncology with a special interest in neuroendocrine tumors. Her research interests include neuroendocrine tumors, immunotherapy, colorectal and pancreatic cancers, hepatocellular carcinoma advances in cancer therapy, the impact of social media and healthcare and gender equity.

Erik Karlsson

Member

During his doctoral work in the Department of Nutrition at the Gilling's School of Global Public Health, University of North Carolina at Chapel Hill, Dr. Karlsson studied the effect of nutrition, especially diet-induced obesity, on immune responses to viral pathogens. Following completion of his Ph.D., Dr. Karlsson began to pursue a research career focused on emerging and endemic infectious disease surveillance, viral evolution, host-pathogen interactions, and immune responses. As a Postdoctoral Research Associate at St Jude Children's Research Hospital, he expanded my knowledge of virology, viral pathogenesis, co-infection, immunology (primary and vaccine-induced), and infectious disease surveillance. His work focused on the interaction of nutrition and infectious disease as well as helping to oversee influenza surveillance at the animal-human interface worldwide. Currently Dr. Karlsson serves as the Deputy Head of the Virology Unit at Institut Pasteur du Cambodge (IPC) in Phnom Penh and is in charge of all ongoing activities related to respiratory viruses, including human seasonal and zoonotic viruses. He is the Director of the National Influenza Center and the Regional WHO H5 Reference lab and the Coordinator for the WHO Global COVID-19 Reference Laboratory in the Virology Unit. Dr. Karlsson's work at IPC focuses on surveillance of endemic and emerging viruses in Cambodia, including developing Early Warning systems against the next pandemic. He also frequently consult for UN organizations (FAO and WHO) and am the founder of a research think-tank named: "CANARIES: Consortium of Animal market Networks to Assess Risks of emerging Infectious diseases through Enhanced Surveillance."

Jay B. Labov

Member

Jay Labov is currently retired but remains active in the improvement of STEM education through consulting, service on boards, and committees, and volunteering in a local elementary school. Prior to retiring he was a member of the biology faculty of Colby College for 18 years and then a staff member at the National Academies of Sciences, Engineering, and Medicine for 23 years, where he was a program officer, board director, and senior advisor for education and communication, and directed or directly contributed to more than 30 National Academies projects and reports. Labov is an education fellow of the American Association for the Advancement of Science, a Kellogg Foundation National Fellow, and has received lifetime achievement awards from the National Association of Biology Teachers and the National Science Teachers Association. He received a B.S. in biology from the University of Miami and an M.S. in zoology and a Ph.D. in biological sciences from the University of Rhode Island.

Finarya Legoh

Member

Dr. Finarya Legoh retired from the Agency for Assessment & Application of Technology and the Ministry of Research and Technology of Indonesia in 2019. She is now working at the Indonesian Academy of Sciences (AIPI) as the Director of International Relation & Funding and also as a senior lecturer at the Department of Engineering of the University of Indonesia. During her work, up to now the main task is bridging the gap and communicating S&T to public, industries, stakeholders. She was appointed as Focal Point of various programs in ASEAN, APEC, in gifted in science for youths and educators. Finarya was selected as the Chair of Special Committee in SHARE (Science, Health, Agriculture, Risk and Environment) Communication within AASSA (the Association of Academies & Societies of Sciences in Asia) since 2022, and members since 2018. She is also the member of working group of Southeast Asia Science Advice Network (SEA SAN) since 2020.

Maude Phipps

Member

Maude Phipps, Ph.D. is Professor of Human Genetics at the Jeffrey Cheah School of Medicine and Health Sciences at Monash University Malaysia. Professor Phipps collaborates with local researchers and participates in international projects with co-investigators from the National University of Singapore, Chinese Academy of Sciences, National Institute of Genetics Japan, National Institute of Biomedical Genomics India, University of Oxford, University of Cambridge, European Bioinformatics Institute UK, Max Planck Institute for Evolutionary Anthropology (MPIEA) Germany, Stanford University, UC Berkeley USA and Cinevestav Mexico.

Wibool Piyawattanametha

Member

Wibool Piyawattanametha, Ph.D. is a professor at the Department of Biomedical Engineering and a Director of Advanced Imaging Research (AIR) Center, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand. In 2010, he co-founded and served as an executive member of the Global Young Academy (GYA) based in Berlin, Germany. He has been appointed as an Adjunct Professor, Institute for Quantitative Health Sciences & Engineering (IQ), Michigan State University, Michigan, USA since 2018.

Viji Vijayan

Member

Viji Vijayan, M.D. holds dual appointment in Duke-NUS Graduate Medical Schools as the Assistant Dean of Safety, Health and Emergency Management and Director Research Operations. She is also chair the School's safety and crisis management committee, which oversees all aspects of safety, security and emergency preparedness in the school.

Seema Yasmin

Member

Seema Yasmin, M.D. is director of the Stanford Health Communication Initiative, clinical assistant professor in the Department of Medicine (division of primary care and population health) at Stanford University, and visiting assistant professor of health crisis management and communication at the Anderson School of Management at UCLA. She teaches advanced clinical communication skills to faculty and medical students, health and science journalism, and global health storytelling. Her research focuses on the spread of misinformation and disinformation about disease and the ways that false information can fuel epidemics and impact public health. Working at the intersection of epidemiology and communications, she is mapping health information equity across the U.S. to understand how access to information—now understood to be a determinant of health—influences health outcomes.