

ONE HEALTH HIGH-LEVEL EXPERT PANEL (OHHLEP)

Biographies

Wiku Bakti ADISASMITO

Professor in Health Policy, University of Indonesia

Nationality: Indonesia

Professor Wiku Adisasmito holds a PhD in Environmental Health and Policy from the Colorado State University, Colorado, USA. He is an expert in health policy and infectious disease control. He has been appointed as a Professor of health policy at the Faculty of Public Health, Universitas Indonesia, since 2010. In addition, he has served as an Adjunct Professor of Infectious Disease and Global Health at Tuft University and an Affiliate Professor of Environmental Health Science at the University of Minnesota since 2018.

In his early career, he worked as a researcher at the US CDC Division of Vector-Borne and Infectious Diseases, Fort Collins, Colorado, and the US CDC- WHO Dengue Reference Laboratory, San Juan, Puerto Rico. During the Avian Flu pandemic in 2006- 2007, he was assigned as an expert panel member at Indonesia's national task force for Avian Influenza control. Then in 2008-2010, he was also appointed as a member of the Asian Partnership for Avian Influenza Research (APAIR). In the same period, he served as the expert panel member of the National Committee for Avian Influenza Control and Preparedness for Pandemic Influenza.

After the Avian Influenza outbreak ended, Professor Wiku served as an expert staff member of the National Commission for Zoonoses Control in Indonesia. He also serves as a member of the Steering Committee of the Asian Partnership for Emerging Infectious Disease Research, and a member of the Regional Core Group Eco-health Field Building Leadership Initiative Southeast Asia. He is currently coordinating the Indonesia One Health University Network (INDOHUN).

During the COVID-19 response in Indonesia, he becomes the Coordinator of the Expert Team for the Task Force for the Acceleration of COVID-19 Mitigation. Furthermore, The President Republic of Indonesia mandates him as the Government Spokesperson for the COVID-19.

Salama AL MUHAIRI

Director of Veterinary Laboratories Division, Abu Dhabi Agriculture and Food Safety Authority

Nationality: United Arab Emirates

Dr Salama Al Muhairi holds a PhD in Genetics and Molecular Biology of the University of Sussex, UK. She is currently working as director of the veterinary laboratories division in the Abu Dhabi Agriculture and Food Safety Authority (ADAFSA) and head of the OIE collaborating centre for quality



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management systems. Member of the UAE national laboratories network on COVID 19 response. Contributed as an expert with OIE multi-disciplinary group to develop a guidance for national veterinary services to support public health services with COVID-19.

Author of over 20 scientific publications on one health related research and contributed to the OIE bulletin on “Strengthening Preparedness and Resilience to Emergencies” and “How lessons learned from MERS have benefitted the response to COVID-19 in the United Arab Emirates”.

Dr Al Muhairi is also a member of the OIE ad hoc group on laboratories sustainability and of OIE’s technical working group on Biosafety Research Roadmap. She participated as an expert in the OIE consultation on Sustainable Laboratories, 2018. Provided consultancy to WHO’s Eastern Mediterranean Regional Office in 2019 to develop and finalize a full package tool and the guidance notes to assess the national capacities to detect and respond to MERS and other emerging zoonotic respiratory threats. Provided expert review for FAO/OIE on the Global Laboratory Leadership Program (GLLP), which is the first One Health initiative developed for teaching core competences to laboratory leaders from animal, environmental, and public health laboratories.

She is the first national expert on one health in UAE, developed the first biosecurity strategy for the Emirate of Abu Dhabi and the head of Abu Dhabi biosecurity committee. Initiated and currently working with FAO/SNG on developing the first integrated biosecurity index with assessment and monitoring tools allowing the identification of potential transboundary threats and risks to food safety, animal health, plant health and human health with multisectoral collaboration.

Casey BARTON-BEHRAVESH

Personal capacity

Nationality: USA

Dr Casey Barton Behravesh (serving on the One Health High Level Expert Panel in her personal capacity) holds a Doctor of Veterinary Medicine and a Master of Science from Texas A&M University and a Doctor of Public Health degree from the University of Texas Health Science Center School of Public Health. She is a Diplomate in the American College of Veterinary Preventive Medicine. She is Director of the One Health Office at the U.S. Centers for Disease Control and Prevention.

She served on the One Health Action Collaborative for the National Academies of Sciences, Engineering, and Medicine Forum on Microbial Threats (2018-2021). She is recognized for accomplishments in applying a One Health approach to address emerging infectious diseases and zoonoses; supporting countries and regions in prioritizing zoonoses for One Health collaboration; collaborating on capacity building for zoonoses; and building One Health coordination mechanisms.

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During her career, she has led hundreds of foodborne and zoonotic outbreak investigations, managed infectious disease surveillance systems, conducted epidemiologic research in collaboration with partners in the U.S. and globally, and most recently led CDC's One Health response to COVID-19. Her work has directly led to policy changes like the U.S. Food Safety Modernization Act. Since 2015, she has collaborated with the FAO-OIE-WHO Tripartite in several roles including as head of an OIE Collaborating Center for Emerging and Re-Emerging Zoonotic Diseases, and as an expert/consultant for initiatives including the Tripartite Zoonoses Guide and several COVID-19 working groups.

She has authored >90 publications, chapters, and reports, contributes as a peer reviewer for scientific journals, and was an invited editor of the 2019 OIE Scientific and Technical Review, "Successes and remaining challenges within the One Health approach." She has received >50 awards for her contributions. She enjoys mentoring students and teaching them to apply One Health to their careers.

Pépé BILIVOGUI

Technical Consultant, Project REDISSE (World Bank/OOAS)

Nationality: Guinea

Dr BILIVOGUI holds a Master Degree in Public Health from the Prince Leopold Institute of Tropical Medicine Antwerp in Belgium and a Medicine Diploma from the University of Conakry (currently named Gamal Abdel Nasser University of Conakry – UGANC).

He is a Public Health Specialist, who occupied many key positions within the national health pyramid of Guinea, from community level to central level as National Director of Public Hygiene for the Ministry of Health.

As expert consultant, he has conducted many assessments and surveys on various subsequent topics such as health impact of Climate change, health and biodiversity, and was strongly implicated in the fight against Epidemics and Pandemics diseases.

Namely, in the fight against the Ebola outbreak, he was the first Field Executive Coordinator in Guinea, and became subsequently a member of the National Coordination of Response against the Ebola Outbreak, and the Chief Medical Officer of the Surveillance Unit.

Dr Bilivogui's experience in Epidemiology and in the fight against Epidemics and Pandemics diseases allowed him to work in the One Health Implementation process in his country, where he is currently the Technical Advisor – Permanent Secretary of the Technical Multisectoral Committee of the One Health Platform.

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Recently He has also mentored students in Guinea for the Field Epidemiological Training Program – FETP/AFENET (US CDC).

Salome BUKACHI

Associate Professor, Institute of Anthropology, University of Nairobi
Nationality: Kenya

Professor Salome Bukachi holds a PhD in Anthropology of the University of Nairobi's Institute of Anthropology, Gender and African Studies, specializing in Medical Anthropology. Author of over 45 publications, she is one of the Members of the Africa One Health Network Steering Committee, a Board member of the International Association of Ecology and Health, Member of the Global Advisory Panel (GAP) for the REACH Programme – Improving Water Security for the Poor, Ad-hoc Committee member for the TDR and WaSH/WHO to support activities to control water-related infectious diseases with a special focus on vector-borne diseases.

Salome has also served as Temporary Adviser to the WHO on Gender and intersectionality on infectious diseases of poverty, been a Member of the Working Group for the development of a guidance framework on testing and deploying the Sterile Insect Technique against mosquito-borne diseases under the IAEA/WHO/ UNICEF/UNDP/WORLD BANK/WHO Special Programme for Research and Training in Tropical Diseases (TDR).

She is currently a member of the Anthropological Association of Kenya, American Anthropological Association, Society of Medical Anthropologists and the International Water Resource Association. She has won several research grants and fellowships from organisations/Institutions such as the Government of Kenya, EU, IDRC, BMGF, Universities of Oxford & Cambridge, Netherlands Fellowship Program. She is currently a fellow in the inaugural Fellowship Programme in the Social Science in Humanitarian Action Platform and an alumni fellow (2019) of the African Oxford Initiative. Professor Bukachi serves in the Editorial and Review boards of many PUBMED cited journals. Salome has mentored many African Anthropologists and has created a niche for herself in the emerging field of Anthropology of Infectious diseases

Natalia CASAS

National Zoonoses Coordinator, Ministry of Health of Argentina
Nationality: Argentina

Veterinary Natalia Casas holds a MSc in Epidemiology, Management and Public Health Policies of the University of Lanús and a specialization in Field Epidemiology Training Program of the University

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of Tucumán. She is the National Zoonosis Coordinator in the Ministry of Health of Argentina since 2010, working in the surveillance, prevention, control and eradication of zoonotic diseases, including planning and management. She was Supervisor of the Regional Unit of Epidemiology and Environmental Health in the Ministry of Health of the Province of Rio Negro, working in zoonosis, epidemiology, bromatology and environmental health. Previously, Dr Casas worked in the Faculty of Veterinary of the University of Buenos Aires and in small animal clinics.

Author and co-author of over 40 publications on rabies, hydatidosis, hantavirus, leishmaniasis, poisonous animals, psittacosis, leptospirosis, brucellosis, yellow fever and botulism, she is member of the Argentine Association of Zoonosis (AAZ), the Argentine Association of Hydatidology, the International Steering Committee for Rabies in the Americas (RITA) and the Society for Vector Ecology (SOVE).

Dr Casas is part of regional groups coordinated by PANAFTOSA/VPH-PAHO/WHO, such as Directors of the Rabies Programs of the Americas (REDIPRA) and South American Initiative to the control of Cystic Echinococcosis/Hydatidosis. She was also part of the visit by experts to review the file on the elimination of human rabies transmitted by dogs in Mexico and advised the National Program of Surveillance and Control of Zoonotic Diseases in Aruba.

Natalia CEDIEL BECERRA

Lecturer and researcher, Universidad de la Salle - Bogotá
Nationality: Colombia

As Veterinarian, MSc Public Health (Colombian National University), PhD Veterinary Sciences (Università Degli Studi di Torino, Italy), Natalia Cediél has fourteen years of experience working in multi-disciplinary health teams and intercultural workplaces on veterinary public health education and epidemiologic research in zoonoses.

Her current work is focused on gender based One Health, the implementation of a one health approach for rabies in Colombia and Latin America, risk perception of zoonoses and setting priorities for surveillance, prevention and control of zoonoses in developing and developed countries. After finishing her PhD, Natalia has been working creating educational material to teach the One Health approach in veterinary programs in Latin America with the international SAPUVETNET Project signed between Europe and Latin America (www.sapuvetnet.org). Likewise, she has been supporting the One Health informed policy making with technical documents on the integrated and integral

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approach to zoonoses together with the Colombian Ministry of Health and the Pan-American Health Organization.

Currently, she is lecturer and researcher at La Salle University, Colombia, works as independent consultant on public health and is one of the Iberoamerican [Cyted](#) Thematic Network in One Health, Climate Change and Loss of Biodiversity leaders. She has several publications on epidemiology of infectious diseases, health and social inequalities of Colombian rural populations and the 2030 Agenda on sustainable development. Since 2020, she is co-editor and host for [Frontiers in Public Health Journal](#) on the Research Topic "*Challenges and Successes of One Health in the Context of Planetary Health in Latin America and the Caribbean*". In 2021, she is coordinating the course "*International Theoretical-Practical Course on One Health and One Welfare: from concept to implementation*", for Spanish speaking professionals organized by the Colombian Observatory of Animal Welfare and Health of La Salle University in Bogotá.

Dominique CHARRON

Vice-President, Programs and Partnerships, International Development Research Centre, Ottawa
Nationality: Canada

Dominique Charron is Vice-President, Programs and Partnerships at Canada's International Development Research Centre (IDRC), where she leads research for development programming strategy and builds partnerships toward supporting knowledge and innovation in developing regions, led by researchers in those regions.

She contributed to writing IDRC's new Strategy 2030, and a transformational agenda for the organization. She has implemented a new framework for more gender-responsive and inclusive programming that reduces inequalities in the world. She was instrumental in building IDRC's animal health innovation and emerging infectious disease prevention and control programs and co-authored the Centre's pandemic preparedness plan in 2009. Dominique previously was IDRC's Director, Agriculture and Environment, and Program Leader, Ecosystems and Human Health.

Dominique Charron holds a PhD in epidemiology and a Doctor of Veterinary Medicine from the University of Guelph. Previously, she managed research programs on infectious diseases, environment and climate change and engaged in international cooperation with Caribbean developing countries while at the Public Health Agency of Canada. She has authored reports, editorials, an edited volume and articles in peer-review in the areas of One Health, Ecohealth, and emerging diseases. She lives in Ottawa, Canada.

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Abhishek CHAUDHARY

Assistant Professor, Dept. of Civil Engineering, Indian Institute of Technology (IIT) Kanpur
Nationality: India

Professor Abhishek Chaudhary is an Assistant Professor at the Indian Institute of Technology ([IIT](#)) Kanpur leading the [Sustainability Data Analytics Lab](#). His area of [research](#) includes sustainable agriculture and diets, biodiversity conservation, life cycle assessment (LCA), and environmental modeling. He is the author of over 35 peer-reviewed journal [articles](#) and has presented his work in more than 25 international conferences around the globe.

His work focuses on statistically analyzing existing data, applying mathematical models and developing quantitative methods to generate information for policymakers on the sustainability of everyday products, human activities, economic sectors, national consumption and international trade. He works on current issues such as climate change, biodiversity extinction, food security, land degradation, environmental pollution, and loss of ecosystem services.

Prior to joining IITK, he held Postdoctoral Researcher and later a Senior Scientist position at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland from where he also earned his Ph.D. in Environmental Engineering in 2015. Dr Chaudhary worked at the United States Environmental Protection Agency (EPA) in Cincinnati, USA from 2009-2012 as an Environmental Engineer. He has won several prestigious research grants from organizations such as Swiss National Science Foundation, European Commission, US EPA, IIASA etc.

Currently, he is serving as one of the experts in the international research group on nutritional combined environmental LCA led by the UN FAO. He is also a member of the IUCN SSC Phylogenetic Diversity Task Force ([PDTF](#)) and [ES&T's](#) Early Career Editorial Advisory Board. In the past, he has contributed to EAT-Lancet commission's [report](#) on healthy diets as well as to The Nature Conservancy's [report](#) on benefits of source water protection. His work on biodiversity within LCA has been recognized by UNEP-SETAC as [best practice](#). He has previously served as member of technical advisory group to the LEAP initiative of United Nations' FAO.

Janice CIACCI ZANELLA

Veterinarian researcher in the area of Animal Virology and Director General of Swine and Poultry Research Center, EMBRAPA, Brazil
Nationality: Brazil

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Janice Reis Ciacci Zanella is a veterinarian graduated by the Veterinary School of the Federal University of Minas Gerais, Brazil, Master of Sciences and Ph.D. in Molecular Virology at the University of Nebraska, USA.

Currently, she is an EMBRAPA (Brazilian Agriculture Research Corporation) researcher in the area of Animal Virology as well as the Director General of Embrapa's Swine and Poultry Research Center (ESPRC), holding already a second term in that position. She was a visiting scientist at the USDA NADC laboratory in Ames, Iowa, USA, within the agreement of ARS/EMBRAPA LABEX. She represents Brazil in the FAO - OIE - WHO committee to coordinate global surveillance of influenza in swine (OFFLU) since 2011, and has been elected Co-Chair of the committee. Coordinates research projects in swine and avian viruses, such as PRV, PCV2 (held the first diagnosis of SIV and PCV2 in Brazil), SVA, PRRSV, ALV, FLUAV and in emerging zoonotic diseases, such as influenza and recently in SARS-CoV-2. She is the coordinator of the ESPRC COVID-19 Diagnostic Laboratory in support of the Brazilian Health Ministry.

In addition to science, managerial expertise, she has international experience, having served as interim coordinator of LABEX at the NADC/ARS/USDA and many international missions required by EMBRAPA's Presidency, such as to the People's Republic of China (CAAS). Coordinated the Eradication of Aujeszky's disease in SC, Brazil. For 5 years, she was the chair of the Steering Committee of the Portfolio of Projects for Animal Health at EMBRAPA that determined research lines for the 43 EMBRAPA research centers. She was the International Articulator at ESPRC for three mandates to promote articulation with research centers in the world. She is the representative of the Directors of the South Region in the board of managers of EMBRAPA. Also, advises under- and graduate students of Brazilian, Argentine and Colombian Universities. She participates in the Agriculture Ministry Technical Committee on Swine Health Programs and participated at OIE Ad Hoc committees such as CSF and ASF. She has a total of 25 awards and titles, among those 4 international awards. She serves as Peer reviewer of 10 journals.

Andrew Alexander CUNNINGHAM

Deputy Director of Science, Zoological Society of London
Nationality: UK

Professor Andrew Cunningham has a Bachelor's degree in Veterinary Medicine and Surgery from the University of Glasgow and a PhD in amphibian epidemiology from the Royal Veterinary College, University of London. Professor Cunningham is the Deputy Director of Science at the Zoological Society of London, where he has worked since 1988, initially as veterinary pathologist and, most recently, as Professor of Wildlife Epidemiology.

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He investigates infectious and non-infectious disease threats to wildlife conservation, including disease ecology and the drivers of disease emergence and zoonotic spill-over. He has published > 400 scientific articles, including primary data and reviews on wildlife disease and emerging infectious diseases, including a seminal paper on emerging infectious disease threats to biodiversity and public health which was published in *Science* in 2000. He discovered a new epidemic ranaviral disease of amphibians in Europe and he published the first definitive report of the global extinction of a species by an infectious disease.

He has led several international and multi-disciplinary wildlife disease research projects, including the investigation of vulture declines in South Asia and the international team that discovered the fungus *Batrachochytrium dendrobatidis* as a cause of global amphibian declines. Since 2007 he has co-led investigations to understand the ecology of zoonotic pathogens in their natural chiropteran hosts and risk factors for zoonotic spill-over and disease emergence. He is a member of DEFRA's GB Wildlife Disease Surveillance Partnership and he led the team that discovered a novel disease causing greenfinch declines in the UK. In 2010, he won a Royal Society Wolfson Research Merit Award for his work on zoonotic viruses in African bats, a project which he continues to co-lead with colleagues in the Universities of Ghana and Cambridge and in 2016 he was awarded Fellowship of the Royal College of Veterinary Surgeons for meritorious contributions to knowledge.

Osman DAR

Consultant in Global Public Health, Public Health England & Director - One Health Project, Chatham House, Royal Institute of International Affairs
Nationalities: UK, Pakistan

Dr Osman A Dar is a Fellow of the Royal College of Physicians (Edinburgh) and a Fellow of the Faculty of Public Health (UK). Osman completed his medical degree at the Aga Khan University in Pakistan before going on to do clinical training in general medicine at Cambridge University Hospitals NHS Trust. He subsequently undertook specialist training in Public Health and Communicable Disease Control at the London School of Hygiene and Tropical Medicine and the London/KSS Deanery School of Public Health.

At Chatham House, he is director of the One Health Project - an umbrella term referring to the Institute's work on emerging infections, ecological approaches to disease control, antimicrobial resistance, environmental public health and health inequalities, and sustainable livestock development and its links to food security and nutritional outcomes. For the UK Health Security Agency, he is technical co-lead on One Health for the global International Health Regulations (IHR) capacity building programme and sits on the UK cross-government technical working group on One

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Health. Osman has taken part as an invited expert, trainer and facilitator for numerous initiatives on disaster preparedness and response, health security, and IHR capacity building across Europe, Africa and Asia.

As part of his commitment to academic research, training and capacity building, Osman has written widely on One Health matters with over 50 peer-reviewed publications, in addition to numerous government and UN agency reports, and has helped secure over £25,000,000 of funding through competitive grants and development funding. Current grant roles include being Principal Investigator on a Gates Foundation project focused on global governance and institutional fragmentation in the food and agriculture sector, as Co-Investigator for the EDCTP-PANDORA research consortium working on emerging infections in Africa, and as Co-Investigator on a UK NIHR grant examining behavioural interventions to improve COVID-19 outcomes in ethnic minority communities.

Nitish DEBNATH

Team Lead, Fleming Fund Country Grant to Bangladesh, DAI Global, LLC - National Coordinator One Health Bangladesh
Nationality: Bangladesh

Professor Nitish Debnath is a veterinarian, holds a PhD in Virology of the University of Surrey, MSc in Tropical Veterinary Medicine of the University of Edinburgh and had his postdoctoral training on nonspecific immunity in Japan. He started his career in the government veterinary services and then moved to Bangladesh Livestock Research Institute as senior scientist.

In his mid-career, he moved to academia as Principal of the newly established Chittagong Government Veterinary College which was later transformed into Chittagong Veterinary and Animal Sciences University and he was appointed as a founding Vice Chancellor. He has been involved with many national and international research projects on animal health and veterinary education and served in many research and academic committees nationally and internationally. He also worked for FAO and Global Health Development as senior technical advisor. Since January 2020 he has been working as Team Lead of Fleming Fund Country Grant to Bangladesh.

Author of more than 100 publications, he served as Presidents of the Bangladesh Veterinary Council and Agriculturists (Krishibid) Institution Bangladesh, member of the board of Governors of International Association of Ecology and Health. He is an Associate Fellow of Chatham House Global Health and core member of the board of Governors of the Council on International Veterinary Medical Education.

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He organized the first International One Health Conference in Chittagong in March 2008 and launched a membership based professional organization called One Health Bangladesh (OHB). Since inception, he has been chairing the National Coordination Committee of OHB and organized 10 annual One Health conferences. Also actively engaged internationally in One Health activities, he made presentations in three International One Health Congresses, contributed to regional One Health workshops, attended IHR-PVS National Bridging workshop, attended Salzburg Global Seminar to develop One Health Surveillance Matrix, contributed to prepare the Tripartite Zoonoses Guideline and is member of the central team of South Asia Surveillance Network.

Baptiste DUNGU

Chief Executive Officer, Onderstepoort Biological Products SOC (OBP), South Africa
Nationality: Democratic Republic of the Congo

Baptiste Dungu holds a veterinary Degree (DVM) and a PhD in Veterinary Microbiology & Vaccinology from the University Lubumbashi (DR Congo) and University of Pretoria, South Africa respectively. Author of over 40 peer reviewed publications and few book chapters, he has specialized in research, development and access to livestock diseases control tools and strategies, in the form of diagnostic assays, vaccines and epidemio-surveillance strategies.

He established in the early 1990 the first nucleic acid-based diagnostic laboratory at the Onderstepoort Veterinary Institute, South Africa, where several new PCR tests got developed and used as diagnostic tools. He later established and managed the Bovine Spongiform encephalopathy (BSE) laboratory in the early days of this zoonosis. Working already on several zoonotic diseases such as Rift Valley Fever and Brucellosis, and major viral diseases, he headed the Foot and mouth disease vaccine development and manufacturing Institute, before becoming the head of operations and R&D for the Onderstepoort Biological Products (OBP) in 2002. In 2008 he moved to Edinburgh Scotland to head R&D for the international charity GALVmed, which supports the availability and access of vaccines and medicines to livestock keepers in developing countries.

In 2019, he returned to South Africa to occupy his current position of Chief Executive Officer of the OBP, the South African State-owned livestock vaccine manufacturing company and one of the largest on the African continent.

Baptiste is also one of 6 members of the World Organization for animal Health (OIE) Scientific Commission, serving also on several diseases' ad hoc groups. He is also a board member of the International Veterinary Vaccinology Network. His contribution to One health has therefore been through his extensive work on major zoonotic diseases such as RVF, BSE, brucellosis, rabies,

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Trypanosomosis and neglected zoonotic diseases such as Porcine cysticercosis (linked to neurocysticercosis), all of which require a one health approach for their control.

Elmoubasher FARAG

Senior Infectious Disease Epidemiologist, Head of Communicable Diseases Control Programs, Director-One Health Projects, Qatar Ministry of Public Health (MOPH)

Nationality: Sudan

Dr Elmoubasher Farag is a senior infectious disease epidemiologist and the head of the Communicable Disease Control Programs at the Ministry of Public Health, Qatar. He is a country coordinator for the International Atomic Energy Agency (IAEA) project on Zoonotic Disease Integrated Action (ZODIAC).

Dr Farag holds a PhD in Communicable Disease Surveillance and Control from the University of Gezira, Sudan and another PhD in Emerging Infectious Disease from Erasmus MC, Netherlands. Dr Farag is also a Fellow at the Faculty of Public Health, Royal College of Surgeon and Physicians FFPH (UK). Further, he was one of 10 international experts assigned by the WHO in 2021 to trace the origin of COVID-19.

When MERS-CoV evolved in Qatar in 2012, Dr Farag led the field investigation to identify the source of the virus and its mode of transmission. Using the One Health approach, he managed to identify the source of MERS-CoV from dromedary camels, marking the first isolation of the novel virus from the animal kingdom. His subsequent epidemiological investigations helped determine the potential risk factors and the most-at-risk populations. Dr Farag's efforts were crowned with 'Doha Declaration on MERS-CoV and One Health' and adopted by MERS-affected countries at the Regional workshop on MERS-CoV and One Health in 2015, Qatar.

He led the investigation in Qatar for COVID-19 cases and uncovered the first COVID-19 cluster of cases among a group of migrant workers in March 2020. Dr Farag currently leads seven research grants on One Health. Author of over 150 publications. He serves as a scientific expert to develop both the WHO/EMRO Framework for Emerging Infectious Disease and One Health. Dr Farag's research on "one health and emerging infections" was awarded the main prize of WHO's Fifth meeting of the Eastern Mediterranean Acute Respiratory Infection Surveillance (EMARIS) network in 2019.

George Fu GAO

Director-General, Chinese Center for Disease Control and Prevention

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Nationality: People's Republic of China

Professor Gao is the Director-General of Chinese Center for Disease Control and Prevention (China CDC). He obtained his PhD (DPhil) degree from Oxford University and held his postdoctoral trainings in Oxford and Harvard University.

Using interdisciplinary methods, including virology, immunology and structural biology, George has made remarkable contributions to the study of inter-species pathogen transmission. His work revealed the origin and interspecies transmission mechanism of avian influenza virus. He is a leading figure for the control of infectious diseases in China and a world advocate voice of global public health strategy. He led the China Mobile Laboratory Testing Team in the fight against Ebola outbreak in Sierra Leone in 2014 and continued his leadership in China CDC's efforts supporting public health capacity strengthening in developing countries in Africa.

George is elected as the international fellow/member of many academies and societies worldwide such as the Third World Academy of Sciences, African Academy of Sciences, US National Academy of Sciences, European Molecular Biology Organization, etc. In addition, he served as member of Boards or Expert Panels of many influential international associations or initiatives such as GPMB, IANPHI and CEPI, where the voices of public health practitioners from developing countries are well respected and heard.

George has published more than 600 peer-reviewed papers, including papers in Cell, Nature, Science, New England Journal of Medicine, The Lancet, Proceedings of the National Academy of Sciences USA etc., 24 books or book chapters and holds more than 56 UK, US and Chinese patents. George was awarded the TWAS Prize in Medical Science in 2012 and the Nikkei Asia Prize in 2014, and with numerous awards and prizes from China, including the National Award for the Distinguished Scientist in 2016, the National Science and Technology Award and National Innovation Award in 2017.

David HAYMAN

Professor of Infectious Disease Ecology, Massey University, New Zealand

Nationality: New Zealand

Professor Hayman holds a PhD in Veterinary Science from the University of Cambridge, UK, with degrees from University of Edinburgh (BVM&S) and University of Kent (MSc), and postdoctoral training in infectious disease biology from Colorado State University, USA. Author of over 90 publications, he is Professor of Infectious Disease Ecology at Massey University, New Zealand, where he co-directs a large research team, the Molecular Epidemiology and Public Health Laboratory



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(^mEpiLab), and directs a larger network of researchers across the university as the Director of the Infectious Disease Research Centre (IDREC).

The ^mEpiLab is part of a World Organization for Animal Health (OIE) Collaborating Centre for Veterinary Epidemiology and Public Health and has PC2/3 laboratory facilities. Professor Hayman's work focuses on emerging and endemic infectious diseases that primarily cause human illness or cause serious ecological problems. He has received notable award for his research, including Wellcome Trust, David H Smith and Royal Society Te Apārangi research fellowships.

Professor Hayman has worked in Europe, the Americas, Africa, Asia and the Pacific, held several visiting positions at universities and research institutes, and supports equity in science and society. Professor Hayman is on a number of committees, including an *ad hoc* committee for the US National Academy of Sciences for Pakistan One Health Fellowships, and has led or co-authored key reports for national governments and intergovernmental organisations.

Most recently, in response to the emergence of SARS-CoV-2, he has contributed to the 'Workshop Report on Biodiversity and Pandemics' of the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES), and the WHO-convened global study of origins of SARS-CoV-2: China Part report. Professor Hayman's work focuses on the ecological and evolutionary processes that lead to infectious disease emergence and the impact of human activities on disease emergence events among people and wildlife.

Margaret KHAITSA

Professor of International Veterinary Epidemiology, Mississippi State University
Nationality: Uganda

Professor Margaret Khaitsa holds a Ph. D in Veterinary Preventive Medicine/Epidemiology, The Ohio State University, USA, MSc in Tropical Veterinary Medicine, University of Edinburgh, UK, and Bachelor of Veterinary Medicine, Makerere University, Uganda. Her postdoctoral training was in Epidemiology/Food Safety, University of Nebraska, Lincoln, USA. She is Board certified by the American College of Veterinary Preventive Medicine, and her research interests are in infectious disease epidemiology and food safety.

Author of over 70 publications, a book chapter, and numerous presentations at scientific conferences, Dr Khaitsa co-edited a Special Issue Pan African Medical Journal on Transboundary Animal Diseases & Zoonoses and served as Director of an MSc degree in International Infectious Disease Management. In 2010-2015, with collaborators from Africa and North America, she led a One Health multi-institutional project, "Capacity Building in Integrated Management of



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Transboundary Animal Diseases & Zoonoses in Eastern Africa." She has mentored numerous junior faculty/students and continues to train the next-generation global workforce through "One Health in the Global environment" and a study abroad in "Tropical Veterinary Medicine & One Health" courses.

Dr Khaita has received numerous awards, including: 2020/2021 Fulbright Fellowship; MSU President's Commission on the Status of Women; Outstanding Faculty Woman Award; and two Carnegie African Diaspora Fellowships. She was President Elect, American Association of Veterinary Medical Colleges, Public Health Committee and participated in Engaging Inter-Governmental Organizations (WHO/FAO/OIE/WTO). Dr Khaita and her colleagues were awarded a USDA-FAS Technical Exchange grant for Veterinary Epidemiology training in China (2016). In 2017, she served on WHO/FAO/OIE Tripartite "Training and Workforce Development" Technical Working Group for upgrading the Zoonoses Guide. She currently leads a USDA-FAS-grant to harmonize SPS regulations across Regional Economic Communities of the African Union. Dr Khaita co-founded and chairs the Board of Higher Education Resource Services, East Africa, an NGO advancing women economic empowerment and leadership development.

Marion P. G. KOOPMANS

Head of Department of Viroscience, Erasmus MC

Nationality: The Netherlands

Professor Marion Koopmans, DVM PhD focuses on global population level impact of rapidly spreading zoonotic virus infections, with special emphasis on foodborne transmission. Her research focuses on unravelling the modes of transmission of viruses among animals and between animals and humans, and the use of pathogenic genomic information to unravel these pathways and to signal changes in transmission or disease impact.

She is co-PI in the FP7 funded PREPARE project (www.prepare-europe.eu) aimed at building a pan-European operational network for rapid and large-scale European clinical research in response to infectious disease outbreaks with epidemic potential.

She is the director of the WHO Collaborating Centre for emerging infectious diseases at Erasmus, and Scientific Director "Emerging infectious diseases" of the Netherlands Centre for One Health (www.ncoh.nl). She has received the Infectious disease award of the Dutch Association for Infectious Diseases and is the recipient of the Stevin Premium 2018. In 2019, she became a member of the KNAW (Royal Dutch Academy of Sciences). She has co-authored >500 papers that have been cited > 20.000 times.



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Catherine MACHALABA

Senior Policy Advisor and Senior Scientist, EcoHealth Alliance

Nationality: USA

Dr Machalaba holds a PhD in Environmental and Planetary Health Sciences from the City University of New York School of Public Health and a Masters in Public Health from Dartmouth, both in the U.S. She serves as senior policy advisor and senior scientist at EcoHealth Alliance, a scientific non-profit organization working at the nexus of conservation, global health, and capacity strengthening.

She leads multiple research and policy projects in close collaboration with partners around the world, including a long-term One Health study on causes and risk factors for acute febrile illness in Liberia. She was a lead author of the World Bank Operational Framework for Strengthening Human, Animal and Environmental Public Health Systems at their Interface (“One Health Operational Framework”) published in 2018 to assist countries and donor institutions in implementing One Health approaches. Her research interests center on assessing system gaps and opportunities for strengthening global and national coordination across sectors, particularly to support effective integration of wildlife and environmental health services, and One Health economic analyses to target cost-effective strategies to reduce disease risk and impact.

Dr Machalaba is programme officer for the IUCN Species Survival Commission’s Wildlife Health Specialist Group and active in the GHSA Consortium and several biodiversity-related initiatives, including Future Earth and the WHO-IUCN Expert Working Group on Biodiversity, Climate Change, One Health and Nature-based Solutions. While serving as Chair of the American Public Health Association’s Veterinary Public Health group she led development of the Association’s One Health policy statement. Her work has been published in the *Bulletin of the World Health Organization*, *OIE Scientific and Technical Review*, *Annals of Global Health*, and *Foreign Affairs*, among other venues. She began her One Health career in 2004 as a field agent for West Nile virus surveillance in birds at a state public health office.

John MACKENZIE

Emeritus Professor, Curtin University, Perth

Nationality: Australia

Professor Mackenzie holds a PhD in Microbiology (Virology) of the Australian National University, and his post-doctoral training at the Public Health Research Institute of the City of New York. Author of over 350 publications, he is a fellow of the Australian Academy of Technological Sciences and

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Engineering and the American Academy of Microbiology. He is an Emeritus Professor of Curtin University where he had been Professor of Tropical Virus Diseases. He formerly held the Chair of Microbiology at The University of Queensland and academic positions including a Personal Chair in Microbiology at The University of Western Australia. He is currently an Honorary Professor of The University of Queensland and an Honorary Senior Principal Fellow at the Burnet Institute, Melbourne.

He is a Past President of the Australian Society for Microbiology, and a former Secretary-General of the International Union of Microbiological Societies. He currently serves as a member of the WHO's International Health Regulations (IHR) Emergency Committee on the International Spread of Polio and of the IHR Emergency Committee regarding the coronavirus disease (COVID-19). He had previously chaired the IHR Emergency Committee on Pandemic Influenza in 2009-10. He was a member of the Steering Committee of the Global Outbreak Alert and Response Network (GOARN) between 2001 and 2017, and of the Technical Advisory Committee of the Asian Pacific Strategy for Emerging Diseases (APSED) from 2005-17.

He was the inaugural recipient of the Mahathir Science Award of the Malaysian Academy of Sciences, awarded in recognition of contributions and innovations towards solving problems in the tropics through science and technology. He co-founded the World One Health Congresses, the first being held in Melbourne in 2012, and co-founded the One Health Platform Foundation between 2014 and 2021. The One Health Platform was initiated as a scientific network to assist in communication and sharing research information in the One Health arena, and running the World One Health Congresses and Forums. He has been a member of various WHO and Australian national committees concerned with viral diseases and health security.

Wanda MARKOTTER

Professor, Centre for Viral Zoonoses, University of Pretoria
Nationality: South Africa

Professor Wanda Markotter holds a PhD in Virology from the University of Pretoria, South Africa, with part of this research completed as a visiting scientist at the Centre for Disease Control and Prevention, USA. She started her academic career at the same university in 2004 and is currently the Director of the Centre for Viral Zoonoses, Department of Medical Virology, Faculty of Health Sciences.

Since January 2016, she is also occupying a South African Research Chair in "Infectious Diseases of Animals (Zoonoses)" and, in 2021, accepted an additional research chair in People, Health and Places (One Health) at the Future Africa Institute. She is a virologist who has been involved in an



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interdisciplinary research programme on disease ecology in bat species in South Africa and other African countries since 2005. The research includes extensive fieldwork focusing on bats and potential spillover hosts, virological testing, bat biology, ecological investigations and human behaviour studies. The focus is not only to detect viruses but also to understand spillover factors and develop mitigation strategies.

She has published more than 80 scientific publications and several book chapters and regularly contributes to public media forums. She has been the Principal Investigator of several multi-collaborative international viral surveillance programmes, including the Global Disease Detection Programme, Centres for Disease Control and Prevention and Defence and Threat Reduction Agency, USA. She also plays a leading role in several national and international committees, including the Multisectoral National Outbreak response team, National Rabies Advisory Group, National One Health forum and International One Health Bat Research Network.

Thomas METTENLEITER

President of the Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Germany
Nationality: Germany

Professor Thomas C. Mettenleiter studied biology and earned his doctorate on molecular genetics at the Eberhard-Karls-University in Tübingen. For his postdoctoral studies he received a fellowship from the German Research Foundation to work at Vanderbilt University, Nashville, TN, USA. His main field of research are virus infections of farm animals. Besides studies on the basic processes of virus-host interaction he has a focus on the development of novel vaccines using molecular technology. His scientific record contains more than 450 peer-reviewed publications and he supervised more than 100 young scientists.

From 1994 to 2019 he headed the Institute of Molecular Virology and Cell Biology at the Friedrich-Loeffler-Institut (FLI), Federal Research Institute for Animal Health on the Isle of Riems. Since 1996 he is President of the FLI. He coordinates several international projects with focus on animal health and One Health aspects.

Thomas C. Mettenleiter is member of several international committees and working groups, e. g. the OIE Ad Hoc Group on SARS-CoV-2 at the human-animal interface and the Ad Hoc Group on Safe Trade concerning SARS-CoV-2. He has been a two-term member of the Scientific Commission of the OIE. He is member of the German National Academy of Sciences Leopoldina, the Academy of Sciences in Hamburg, the Polish Academy of Science and the Royal Belgian Academy of Medicine.

He was awarded an honorary doctorate from the University of Veterinary Medicine Hannover, an extraordinary professorship from the University of Greifswald and a honorary professorship from

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the University of Rostock. Furthermore, he is recipient of the Robert von Ostertag Medal of the German Federal Chamber of Veterinarians.

Professor Mettenleiter serves as Senior Editor for the scientific journals “Advances in Virus Research” and “Berliner und Münchener Tierärztliche Wochenschrift”. Furthermore, he is active in the Editorial and Review boards of several Pubmed listed scientific journals.

Serge MORAND

Director of Research, CNRS, Montpellier University

Nationality: France

Dr Serge Morand, research director of the French National Centre for Research (CNRS), holds a PhD in Ecology of the University of Rennes (Brittany, France) and postdoctoral training at Oxford University with a fellowship of the Royal Society.

He has authored over 480 publications and 20 books. He has coordinated several international projects on the interlinkages between biodiversity and zoonotic diseases involving intensive field studies. He has been a Visiting Professor at some universities in Europe and Asia, participating in “One Health” or “Biodiversity and Health” programs. For this, he obtained an Honoris Doctorate from Kasetsart University (Thailand).

Serge Morand serves in the Editorial and Review boards of several journals in the fields of Zoology, Parasitology and Disease Ecology. He is highly cited in the domains of Ecology and Public health. He was a member of the former “Biodiversity and Health” technical group of the third National Environment and Health Plan at the French Ministry of Ecology. He is member of the Knowledge Coordination Body of the European EKLIPSE, and of the scientific committee of “One Sustainable Health”, and representative of the CNRS to the PREZODE initiative. Serge Morand is a member of the Small Mammal Group and the Wildlife Health Group of the IUCN Survival Species Commission. He is actually co-coordinating a “One Health” project for the French Ministry of Foreign Affairs.

Vyacheslav SMOLENSKIY

Deputy Head, Russian Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing

Nationality: Russian Federation

Graduated in 2002 from the Tver Medical University, Dr Smolenskiy joined the state public health agency Rospotrebnadzor in 2004 in the Epidemiological Surveillance Department. In 2008, he took

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the position of Deputy Director of the Science and International Cooperation Department and between 2011 and 2018 he served as Director for Science and International Relations.

Dr Smolenskiy got his PhD in epidemiology in 2012. He also received a master's degree in business administration from the Kingston University in London. He is an author and co-author of more than 20 scientific publications, including on biological security and IHR related topics, and 2 monographs.

In his day-to-day work, he coordinates multilateral and bilateral international relations of Rospotrebnadzor with UN agencies (including WHO, FAO, UNAIDS, Codex Alimentarius, IAEA etc), relevant international and intergovernmental organizations (CIS, G20, BRICS, WB, SCO, WTO, OECD, BTWC, ASEAN, APEC).

Since 2006, he leads the participation of the Russian Federation in international cooperation and development assistance in the area of public health, especially in implementing IHR and fighting communicable diseases. In this capacity, he worked with more than 20 countries. During the last 10 years under the supervision of Dr Smolenskiy, Rospotrebnadzor implemented more than 20 programs to assist developing countries in Eastern Europe, Central Asia, Africa and South-East Asia in fighting infectious diseases and building their capacities to prevent and respond to outbreaks. He coordinated and was directly involved in the Russian participation in response to the Ebola outbreak in Guinea, led assistance missions to Kyrgyzstan, Tajikistan, Vietnam and other countries. In February 2020, he headed the Russian mission to China to conduct consultations on the disease caused by the novel coronavirus SARS-COV2.

His areas of expertise are: public health, IHR implementation, pandemic preparedness and response, global health security, vaccination, epidemic modeling and forecasting, biosecurity, outbreak rapid response teams and mobile labs.

Lei ZHOU

Chief of Branch for Emerging Infectious Disease, China CDC

Nationality: People's Republic of China

Professor Lei Zhou holds a MD in Epidemiology of the Peking University and her Diploma of Global Health of Duke University and Peking University, and participated in the Field Epidemiology Training Program (FETP) on the job education in China CDC.

Author of over 50 publications, she is Member of the Youth Committee, the ninth session, Public Health Branch, Chinese Medical Association, Member of the first Committee of Influenza Control and Prevention, Chinese Society of Preventive Medicine, Member of the first World Health

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Organization Pandemic Influenza Special Studies (PSS) expert working group, Member of the WHO/GOARN global expertise network.

Professor Zhou is in charge of the prevention and control of emerging infectious disease such as avian influenza (different variants), plague, Ebola, MERS, Zika, etc, and pandemic preparedness and response in China CDC, and was invited as a Guest Researcher in US CDC several times for collaboration and cooperation on pandemic preparedness and global health. She provided assistance as a scientific expert on behalf of China to HFMD outbreak in Cambodia in 2012 and Histoplasma public health event in Guyana in 2019 and joined the WHO Yolanda Humanitarian Response for two months in the Philippines in 2014. Professor Zhou has served as a scientific expert of the WHO Joint External Evaluation (JEE) in Brunei in 2019, and the WHO-China joint mission of H7N9 response assessment in 2013.

Professor Zhou has worked as the deputy lead of the Epidemiology Task Force and International Collaboration Task Force within the COVID-19 emergency response in China CDC since COVID-19 was detected at the end of 2019. She was deployed to the field for investigation firstly in 2020 and served as scientific expert of the WHO-China joint mission of COVID-19 response assessment in February in 2020 and the WHO Global COVID-19 Origin Tracing Study-China part in 2021.