



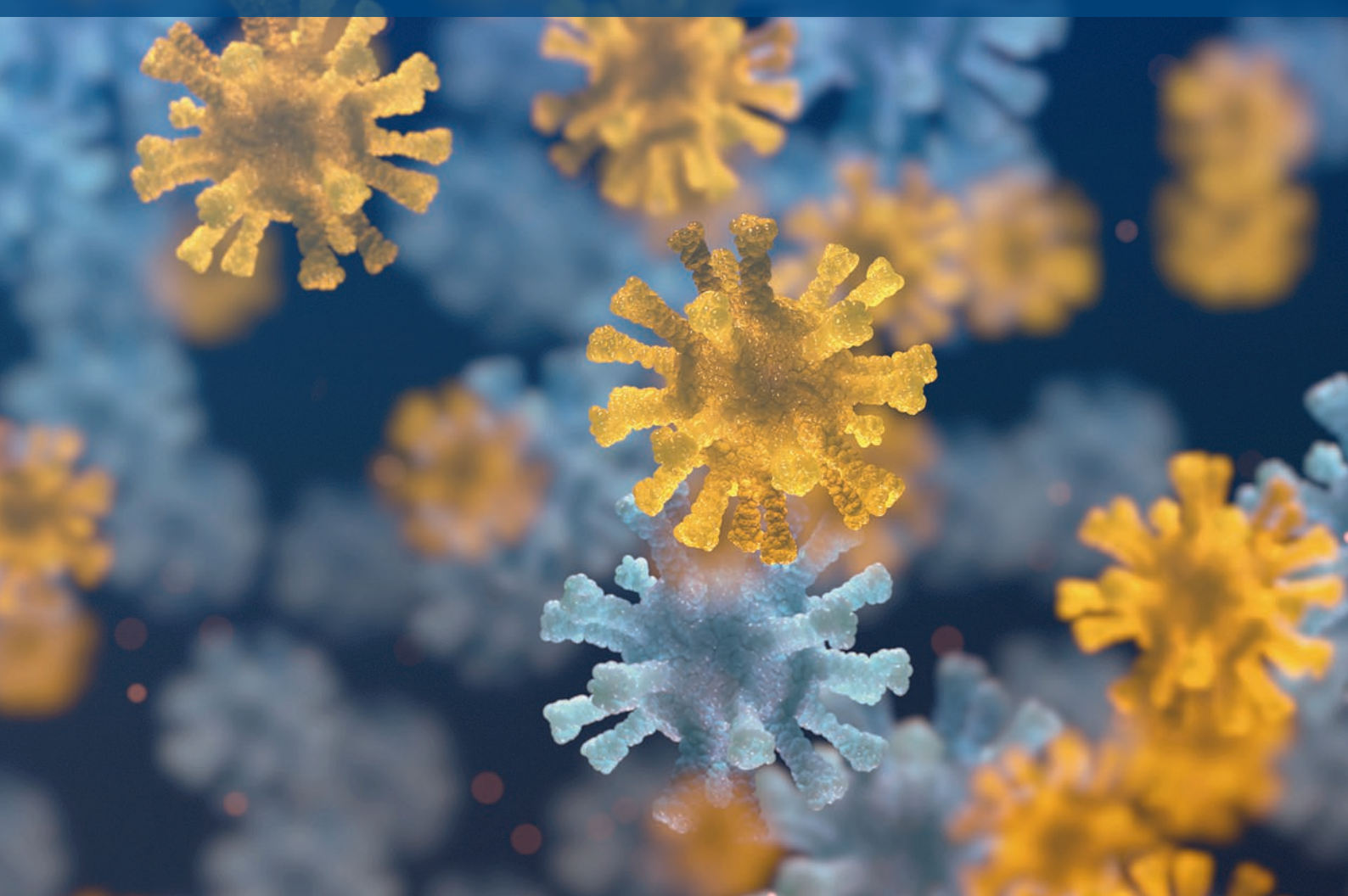
Leopoldina
Nationale Akademie
der Wissenschaften

Workshop Programme

Infectious Diseases beyond COVID-19

Organised by the Academy of Science of South Africa, the Académie Nationale des Sciences et Techniques du Sénégal, the Ethiopian Academy of Sciences, and the German National Academy of Sciences Leopoldina

23 – 24 May 2023 | Max Planck Institute for Infection Biology
Charitéplatz 1 (Campus Charité Mitte) | 10117 Berlin



Imprint

Publisher:

German National Academy of Sciences Leopoldina,
Jägerberg 1, 06108 Halle (Saale), Germany

Editors:

Dr. Thomas Plötze, Isabel Scheer, German National Academy of Sciences Leopoldina

Contact:

Dr. Thomas Plötze, t: +49 345 472 39-832, email: international@leopoldina.org

Title image:

Adobe Stock | Jezper

Layout and typesetting:

unicom Werbeagentur GmbH, Berlin

Published: May 2023

Infectious Diseases beyond COVID-19

Organised by the Academy of Science of South Africa, the Académie Nationale des Sciences et Techniques du Sénégal, the Ethiopian Academy of Sciences, and the German National Academy of Sciences Leopoldina

23 – 24 May 2023 | Max Planck Institute for Infection Biology
Charitéplatz 1 (Campus Charité Mitte) | 10117 Berlin

Infectious Diseases beyond COVID-19

Organised by

Academy of Science of South Africa,
Académie Nationale des Sciences et Techniques du Sénégal,
Ethiopian Academy of Sciences,
German National Academy of Sciences Leopoldina

Addressing and containing infectious diseases is a major global challenge. While the fight against the recent pandemic has enabled unprecedented progress in many areas, the focus on COVID-19 has also simultaneously led to reduced control measures for HIV/AIDS, tuberculosis and malaria, significantly leading to a profound increase in cases and deaths. Given this observation, it is time to take a comprehensive approach to manage all infectious diseases. Future strategies need to incorporate broader integrated control programs, rapid responses and new technologies (e.g. artificial intelligence) to reduce global morbidity and mortality.

The Academy of Science of South Africa (ASSAf) and the National Academy of Sciences Leopoldina, together with the Académie Nationale des Sciences et Techniques du Sénégal (ANSTS) and the Ethiopian Academy of Sciences (EAS), are organizing a two-day workshop using the COVID-19 pandemic as a starting point to look at a broader picture of Infectious Diseases. It aims to discuss the newest advances in research about re-emerging Infectious Diseases, future pandemic preparedness and the integration of the One Health approach.

In a public roundtable, representatives of various stakeholders from politics, business and science will discuss the experiences and lessons learned from the COVID-19 pandemic. COVID-19 has demonstrated how quickly infectious diseases can spread worldwide when hitting unprepared societies. While no one can prevent the outbreak of new infectious diseases, better preparedness and resilient health systems can help mitigate future pandemics.

Prior investments in infectious diseases, open science, research infrastructure and human resource capacity building efforts and strong collaborations and partnerships between LMICs and HICs enabled unprecedented progress in the development of diagnostics, vaccines and treatments buttressed by strong information systems. However, challenges like the unequal access and distribution of diagnostics, vaccines and treatments between LMIC and HIC remain. The recent health crises has once more shown how important a multi-sectorial and -dimensional approach to pandemics should be. How can societies effectively implement prevention measures? And how can pandemic preparedness be increased globally?

Scientific coordinators:

- ▶ Quarraisha Abdool Karim (ASSAf)
- ▶ Papa Salif Sow & Mamadou Ndoye (ANSTS)
- ▶ Wondwossen Amogne (EAS)
- ▶ Stefan H.E. Kaufmann (Leopoldina)

It is the fourth workshop of a series on Infectious Diseases for post-doc researchers from Africa and Europe, which ASSAf and Leopoldina initiated in 2016.

Programme

Tuesday | 23 May 2023

Venue: Max Planck Institute for Infection Biology | Charitéplatz 1 | Berlin

09:00 – 09:20 **Welcome Remarks**

Executives from partnering academies

Melusi Thwala

Academy of Science of South Africa (ASSAf)

Ruth Narmann

German National Academy of Sciences Leopoldina

Papa Salif Sow

Académie Nationale des Sciences et Techniques du Sénégal (ANSTS)

Wondwossen Amogne Degu

Ethiopian Academy of Sciences (EAS)

09:20 – 09:30 **Aims, Objectives and Format of the Workshop**

Stefan H.E. Kaufmann

Scientific Coordinator, Leopoldina

09:30 – 10:30 **KEYNOTE**

“COVID-19: Current status and lessons learnt”

Salim S. Abdool Karim

*Centre for the AIDS Programme of Research in South Africa (CAPRISA),
Durban, South Africa*

Moderator: Quarraisha Abdool Karim

Scientific Coordinator, ASSAf

10:30 – 10:45 **Coffee break**

10:45 – 11:45 **PANEL DISCUSSION A on Pandemic Preparedness**

Panelists:

Beate Kampmann

*Institute for International Health of the Charité –
Universitätsmedizin Berlin, Berlin, Germany*

Wondwossen Amogne Degu

Addis Ababa University, Addis Ababa, Ethiopia

Gabriela Cromhout

University of KwaZulu Natal, South Africa

Moderator: Ndeye Fatou Ngom

University Alioune DIOP of Bambey, Bambey, Senegal

11:45 – 12:45	BREAKOUT SESSION A Pandemic Preparedness (Format: World Café)
	<p>World Café A1 Negligence of infants & young children during the pandemic</p> <p>World Café A2 Negligence of HIV during COVID-19</p> <p>World Café A3 Negligence of Tuberculosis during COVID-19</p>
12:45 – 13:45	Lunch incl. senior science mentorship
13:45 – 14:30	Presentation of discussion results World Café A (plenum) and Wrap-Up Day 1
15:00 – 16:30	<p>Field Trip I – WHO Hub on Pandemic Preparedness</p> <ul style="list-style-type: none"> ▶ Presentation of WHO Hub, and exchange with researchers from the Hub ▶ Presentation of the Global AMR Hub at WHO Hub ▶ Interaction with WHO Hub Scientists
18:30 – 20:15	ASSAf-Leopoldina Public Roundtable Discussion “Pandemic Preparedness beyond COVID-19: Learn from the past, prepare for the future” in cooperation with the Embassy of the Republic of South Africa, Berlin
Venue: Embassy of the Republic of South Africa Tiergartenstr. 18 10785 Berlin	
18:35 – 18:40	Opening Address & Renewal of Memorandum of Understanding
	<p>Professor Dr Ulla Bonas ML Leopoldina Vice President</p> <p>Professor Dr Quarraisha Abdool Karim ASSAf Representative</p>
18:40 – 18:45	Introduction by Moderators
	<p>Professor Dr Dr h.c. Stefan H.E. Kaufmann ML Emeritus Director at the Max Planck Institutes for Infection Biology, Berlin, and for Multidisciplinary Sciences, Göttingen, Germany</p> <p>Professor Dr Quarraisha Abdool Karim Associate Scientific Director, CAPRISA (Center for the AIDS Programme of Research in South Africa), and Professor of Epidemiology, Columbia University, New York, USA</p>
18:45 – 20:15	Roundtable Discussion
	<p>H.E. Phumelele Stone Sizani <i>Ambassador of the Republic of South Africa to the Federal Republic of Germany [TBC]</i></p> <p>Mr Heiko Rottmann-Großner <i>Head of Subdivision “Health Security”, German Federal Ministry of Health</i></p> <p>Dr Morena Makhoana <i>Chief Executive Officer, Biovac, Cape Town, South Africa</i></p> <p>Dr Huwaida Bulhan <i>Project Lead, Global Health Equity, Roche/Genentech Inc. Kenya, Nairobi, Kenya</i></p>

Professor Dr Ndèye Coumba Touré Kane
*Rector of Université du Sine Saloum El-Hâdj Ibrahima NIASS (USSEIN),
Kaolack, Senegal*

Professor Dr Workeabeba Abebe Taye
*Professor of Pediatric Infectious Diseases, Addis Ababa University;
Ethiopian Young Academy of Sciences, Addis Ababa, Ethiopia*

Professor Dr Salim S. Abdool Karim
*Director of the Centre for the AIDS Programme of Research in South
Africa (CAPRISA), Durban, South Africa; Special Advisor (on pandemics)
to the Director-General of the WHO*

Wednesday | 24 May 2023

Venue: Max Planck Institute for Infection Biology | Charitéplatz 1 | Berlin

08:55 **Welcome & Outlook**

09:00 – 10:00 **PANEL DISCUSSION B on Global Health**

Panelists:

Joacim Rocklöv
University Heidelberg, Heidelberg, Germany

Ndèye Coumba Touré Kane
*Université du Sine Saloum El-Hâdj Ibrahima NIASS (USSEIN),
Kaolack, Senegal*

Emanuel Wyler
Max Delbrück Center for Molecular Medicine, Berlin, Germany

Moderator: Zamani Cele
Council of Scientific and Industrial Research (CSIR), Pretoria, South Africa

10:00 – 11:00 **BREAKOUT SESSION B Global Health (Format: World Café)**

World Café B1

AI and etiology of climate change and the emergence of infectious diseases

World Café B2

Control and prevention measures of Antimicrobial resistance

World Café B3

One Health, drug resistance and the development of new technologies

11:00 – 11:30 **POSTER COFFEE SESSION**

11:30 – 12:15 **Presentation of discussion results World Café B (plenum) and Wrap-Up**

12:15 – 13:15 **Guided Tour through Max Planck Institute for Infection Biology**

13:15 – 14:00 **Lunch incl. senior science mentorship**

SPECIAL SESSION | Innovation and Entrepreneurship in Public Health

Moderator: Papa Salif Sow, ANSTS

14:00 – 14:30

Impulse Talk 1

Research findings and the translation into business:

The foundation of small enterprises in Health

Utz Dornberger

University of Leipzig, Leipzig, Germany

14:30 – 15:00

Impulse Talk 2

Tomorrow's Entrepreneurs – How much startup is in your project?

Nina Spiri

Falling Walls Foundation, Berlin, Germany

15:00 – 15:30

Impulse Talk 3

Architecting Inclusive Research and Access in Africa

Huwaida Bulhan

Roche/Genentech Inc. Kenya

15:30 – 16:30

Closing Remarks, Feedback, Networking, and Farewell

Scientific Coordinators

List of Participants

Speakers & Emerging Scientists

* Scientific Coordinators

Prof Dr Quarraisha Abdool Karim*

Associate Scientific Director of the Centre for the AIDS Programme of Research in South Africa (CAPRISA), Durban, South Africa; Professor in Clinical Epidemiology, Columbia University, New York, USA; Pro-Vice Chancellor for African Health, University of KwaZulu-Natal, South Africa; Member of ASSAf

Prof Dr Salim S. Abdool Karim

Director of the Centre for the AIDS Programme of Research in South Africa (CAPRISA), Durban, South Africa; Professor of Global Health at Columbia University, New York, USA; Special Advisor to the Director-General of the World Health Organization

Prof Dr Ulla Bonas

Vice President, German National Academy of Sciences Leopoldina, Halle/S., Germany

Dr Huwaida Bulhan-Betts

Project Lead, Global Health Equity, Roche/Genentech Inc. Kenya, Roche Kenya Limited, Nairobi, Kenya

Dr Caoimhe Cawley

Scientist (Epidemiology), Robert Koch Institute, Berlin, Germany

Dr Zamani Cele

Senior Researcher, Council of Scientific and Industrial Research (CSIR), Pretoria, South Africa

Dr Gabriela Cromhout

Medical Doctor, Paediatric Human Immunodeficiency Virus (HIV) Research, University of KwaZulu Natal, South Africa

Prof Dr Wondwossen Amogne Degu*

Associate Professor of Internal Medicine & Infectious Diseases, College of Health Science, Addis Ababa University, Addis Ababa, Ethiopia; Representative, Ethiopian Academy of Sciences (EAS), Addis Ababa, Ethiopia

Prof Dr Utz Dornberger

Professor for Development Economics with special emphasis on Small and Medium-sized Enterprises, Director of International SEPT Program (SEPT- Small Enterprise Promotion & Training), University of Leipzig; Director of Entrepreneurship Initiative SMILE, University of Leipzig, Leipzig, Germany

Dr Basil Benduri Kaburi

Medical Epidemiologist & Doctoral Researcher, Helmholtz Centre for Infection Research (HZI), Braunschweig, Germany; Hannover Medical School (MHH), Hannover, Germany

Prof Dr Beate Kampmann

Head, Institute for International Health of the Charité – Universitätsmedizin Berlin, Berlin, Germany

Dr Reagon Karki

Researcher/Data Manager, Fraunhofer Institute for Translational Medicine and Pharmacology (ITMP) Discovery Research ScreeningPort, Hamburg, Germany

Prof Dr Dr h.c. Stefan H.E. Kaufmann*

Director Emeritus, Max Planck Institute for Infection Biology, Berlin, Germany; Emeritus group leader on systems immunology, Max Planck Institute for Multidisciplinary Sciences, Göttingen, Germany; Member of Leopoldina

Dr Berit Lange

Head, Clinical Epidemiology & Evidence Synthesis Research Group, Helmholtz Centre for Infection Research (HZI), Braunschweig, Germany

Dr Morena Makhoana

CEO, Biovac, Cape Town, South Africa

Dr Lyle Murray

Lecturer, University of the Witwatersrand, Johannesburg, South Africa

Prof Dr Ndeye Fatou Ngom

Professor of Infectious Diseases, Department of Medicine, Université Alioune DIOP de Bambey, Bambey, Senegal

Dr Nthatsi Nyembe

Lecturer, Department of Zoology and Entomology, University of the Free State, Qwaqwa, South Africa

Prof Dr Joacim Rocklöv

Group Leader, Climate-Sensitive Infectious Diseases lab, Heidelberg Institute of Global Health (HIGH), Interdisciplinary Centre for Scientific Computing (IWR), Heidelberg University, Heidelberg, Germany

Heiko Rottmann-Großner

Head, Subdivision "Health Security", German Federal Ministry of Health

H.E. Phumelele Stone Sizani

Ambassador of the Republic of South Africa to the Federal Republic of Germany

Prof Dr Papa Salif Sow*

Université Cheikh Anta DIOP, Dakar, Senegal; Head of Health Initiatives, Mastercard Foundation, Senegal; Chairman of the Scientific, Strategy and Forecasting Committee, Académie Nationale des Sciences et Techniques du Sénégal, Dakar, Senegal

Nina Spiri

Interim Head of Program Young Entrepreneurs in Science, Falling Walls Foundation gGmbH, Berlin, Germany

Dr Workeabeba Abebe Taye

Professor of Pediatric Infectious Diseases, Department of Pediatrics and Child Health, College Health Sciences, Addis Ababa University; Member, Ethiopian Young Academy of Sciences, Addis Ababa, Ethiopia

Prof Dr Ndèye Coumba Touré Kane

Rector, Université du Sine Saloum El-Hâdj Ibrahima NIASS (USSEIN), Kaolack, Senegal

Dr Emanuel Wyler

Molecular Biologist, Markus Landthaler Lab, Max Delbrück Center for Molecular Medicine, Berlin, Germany

Academy Associates

Dr Ruth Narmann

Deputy Head, International Relations Department, German National Academy of Sciences Leopoldina, Halle (Saale), Germany

Dr Khutso Phalane-Legoale

Programme Officer: Health and Related Sciences, Academy of Science of South Africa, Pretoria, South Africa

Dr Thomas Plötze

Senior Officer, International Relations Department, German National Academy of Sciences Leopoldina, Halle (Saale), Germany

Isabel Scheer

Assistant, International Relations Department, German National Academy of Sciences Leopoldina, Halle (Saale), Germany

Dr Melusi Thwala

Manager, Science Advisory Program and Strategic Partnerships, Academy of Science of South Africa, Pretoria, South Africa

Participating Guests

Dr Kathrin Kraller

Senior Officer, International Relations Department, German National Academy of Sciences Leopoldina, Halle (Saale), Germany

Usha Lamichhane

Scientific Programme Officer, Global AMR R&D Hub, Berlin, Germany

Dr Lucie Loyal

Regenerative Immunology and Aging, BIH Center for Regenerative Therapies (BCRT), Charité - Universitätsmedizin Berlin, Berlin, Germany

Dr Ralf Sudbrak

Interim Secretariat Lead, Global AMR R&D Hub, Berlin, Germany

Prof Dr Andreas Thiel

Deputy Spokesperson for Charité 3R – Replace | Reduce | Refine, Charité – Universitätsmedizin Berlin, Berlin, Germany

As of 16 May 2023 | subject to change

Curriculum Vitae

(In alphabetical order)



© CAPRISA

Professor Dr Quarraisha Abdool Karim

is an infectious diseases epidemiologist whose seminal contributions spanning over three decades have shaped the global HIV prevention landscape, notably in prevention technologies for women. She demonstrated that ARVs prevent sexually transmitted HIV that laid the foundation for HIV pre-exposure prophylaxis (PrEP); and has provided insights in Africa and globally on the impact of Covid-19 on HIV and in the evaluation of Covid-19 vaccines and therapeutics. Abdool Karim is the President of The World Academy of Sciences (TWAS). She is an elected member of the National Academy of Medicine (USA); and Fellow of The World Academy of Science, Royal Society of South Africa, Academy of Science of South Africa and the African Academy of Science. Her research contributions have been recognized nationally and internationally with over 30 honours including South Africa's Order of Mapungubwe, 2014 TWAS-Lenovo Prize; the John Dirks Canada Gairdner Global Health Award; the 2020 Christophe Mérieux Prize; and the 4th Hideyo Noguchi Africa Prize for Medical Research. She is the Associate Scientific Director of CAPRISA; Professor in Clinical Epidemiology, Columbia University; and Pro-Vice Chancellor for African Health, University of KwaZulu-Natal, South Africa.



© CAPRISA

Professor Dr Salim S. Abdool Karim

is a South African clinical infectious diseases epidemiologist widely recognized for scientific contributions and leadership in AIDS and Covid-19. He is Director of the Centre for the AIDS Programme of Research in South Africa (CAPRISA), Durban, and Professor of Global Health at Columbia University, New York. He is adjunct Professor of Immunology and Infectious Diseases at Harvard University, adjunct Professor of Medicine at Cornell University and Pro Vice-Chancellor (Research) at the University of KwaZulu-Natal. He previously served as President of the South African Medical Research Council.

He serves as Special Advisor (on pandemics) to the Director-General of the WHO. He is a member of the WHO Science Council and Vice-President of the International Science Council. He serves on the Boards of the *New England Journal of Medicine*, *Lancet* Global Health and *Lancet* HIV. His many awards include the Canada Gairdner Award, VinFuture Prize, Japan's Hideyo Noguchi Prize and the African Union's Kwame Nkrumah Prize, the highest award for research in Africa.

He is member of the US National Academy of Medicine and the American Academy of Microbiology. He is a Fellow of the Royal Society.

© Thomas Meinicke



Professor Dr Ulla Bonas

studied Biology at the University of Cologne from 1974 to 1980. In 1984, she completed her PhD thesis in Genetics at the University of Cologne with a dissertation entitled *In-vitro cloning of a transposable element in the chalcone synthase gene of Antirrhinum majus*. From 1985 to 1987, she worked as a postdoc at the University of California, Berkeley, supported by fellowships from DAAD, DFG and the Max-Planck society.

From 1988 to 1993, she was the Leader of an Independent Research Group at the Institute for Gene Biology Research in Berlin. In 1992, she habilitated in Genetics at the Free University of Berlin with a thesis on *Molecular genetic analysis of the interaction between Xanthomonas campestris pv. vesicatoria and the plant*. From 1993 to 1998, Ulla Bonas was a Groupleader (Directeur de Recherche; permanent) at the CNRS Institute of Plant Sciences in Gif-sur-Yvette, France. From 1998 until 2021, she was a Full Professor of Genetics at the Martin Luther University Halle-Wittenberg, Halle, Germany. Her research was focused on the genetic and molecular analysis of pathogenicity and plant disease resistance in the *Xanthomonas*/plant interaction.

Ulla Bonas is a member of the European Molecular Biology Organization (EMBO) and in 2011 received the prestigious Gottfried Wilhelm Leibniz Price of the German Research Foundation (DFG). Since 2008, she is a member of the German National Academy of Sciences Leopoldina, and since 2015, she is vice-president of the Leopoldina.

© Roche-Kenya



Dr Huwaida Bulhan

joined Roche-Kenya in 2019 bringing over a decade of experience in primary healthcare and the biotech industry to the team. She leads the clinical research operations activities in East, Central and West Africa for Roche, supporting the advancement of scientific discoveries. Huwaida just completed a global assignment addressing barriers in global clinical trial participation as a Project Lead with the Roche Global Health Equity and Population Science department. Huwaida is also responsible for the

recruitment, retention and development of diverse local talent within the clinical research space on the continent. She is currently a member of the Roche Africa Evidence Generation Squad (AEGS), a core team member for the Evidence Generation Network Enabler (EGNE) global community, leads the MTO1 deliverable for the LMIC Corporate Access Goal Squad, and is a member of the Advancing Inclusive Research Community of Practice within the Roche global organization.

Prior to her role at Roche, Huwaida worked as a medical doctor for the Ministry of Health in Kenya, in Nairobi and Garissa, before moving to clinical research oversight and management in private industry as well as academia in Europe and North America. She acquired her medical training at the University of Nairobi, and further training in Public Health with a focus in Global Health research, at the University of East London. Huwaida is passionate about health equity, and how research can be transformative to healthcare practice and policy in Africa.

Job Title: Senior Clinical Research Operations Team Lead Area Africa | Evidence Generation Network Enabler (EGNE Core Team) | Area Africa Evidence Generation Squad member | LMIC Access Goal Squad Member



Dr Caoimhe Cawley

is an infectious disease epidemiologist with an interest in One Health topics. She has worked on the epidemiology and control of bloodborne viruses (HIV, hepatitis B and C), sexually transmitted infections (syphilis, gonorrhoea, chlamydia) and respiratory viruses (tuberculosis, COVID-19), both in European and African settings. Her PhD from 2010 to 2015 focused on the uptake and impact of HIV counselling and testing services on HIV incidence and changes in sexual behaviour in rural Tanzania. She has also worked on the epidemiology and surveillance of HIV and other STIs in blood donors and other key populations in Europe (men who have sex with men, people experiencing homelessness). More recently, she has developed an interest in Burden of Disease methodology, and is currently working on an international collaboration to calculate the burden of disease due to COVID-19 in 14 countries and sub-national regions in Southeast Europe, the Caucasus and Central Asia. Dr Cawley is increasingly interested in One Health topics, and concerned about how climate change, habitat destruction and loss of biodiversity will contribute not only to ever-increasing pressure on the ecosystems within which we live, but also to more frequent and pervasive public health events, including epidemics and/or pandemics. She believes that in order to effectively tackle the public health problems of the future, integrated and interdisciplinary approaches will be necessary, involving different branches of science and medicine, and based on a One Health model.



Dr Zamani Cele

is a Senior Researcher at the Council of Scientific and Industrial Research (CSIR) in Pretoria, South Africa. He holds a PhD in Pharmaceutical Chemistry from the University of KwaZulu-Natal (UKZN). During his PhD studies, he worked in the field of asymmetric organocatalysis, which is an environmentally friendly way of accelerating and controlling chemical reactions to create specific type of molecules. His research focuses on drug discovery and drug delivery, mainly for infectious diseases such as tuberculosis, antimicrobial resistance, viral infections, and malaria. Zamani is also involved in designing and developing materials with biomedical properties. His works include using computational models to study the mechanism of action by understanding molecular targets and identifying proteins plus activated pathways in the presence of polymer-based materials. He is now emerging as a beacon of the leadership of other black African youths to appreciate their potential in research science. Dr Cele is the lead or co-author of eighteen peer-reviewed scientific journal articles



Dr Gabriela Cromhout

is a medical doctor from South Africa, who is currently working in Paediatric Human Immunodeficiency Virus (HIV) Research in KwaZulu- Natal, South Africa – with a particular focus and interest in HIV cure and TB-HIV treatment research. Dr Cromhout has a wealth of experience working in the South African healthcare system – from deep rural to tertiary, urban settings – with a focus on Infectious Disease in both adults and children.

Dr Cromhout completed her medical training at the University of Stellenbosch in 2014, followed by 5 years of working in state healthcare. She, then, completed her MSc in Tropical Medicine and International Health at the London School of Hygiene and Tropical Medicine, where she further developed her interest in and understanding of infectious diseases, research and global health. She is currently enrolled as a PhD candidate at the University of KwaZulu-Natal, where her work involves a combination of clinical and academic/research work in addition to study clinical co-ordination in the field of paediatric HIV.

Gabriela is passionate about the power of research and global health interventions in the treatment and potential cure of infectious diseases – particularly that of the HIV epidemic in sub-Saharan Africa.



Professor Wondwossen Amogne Degu (MD, PhD)

is an associate professor of Internal Medicine & Infectious Diseases at the Addis Ababa University, College of Health Sciences. He has been given a full honorary molecular and clinical medicine professorship from the University of Dundee, Scotland, since March 18, 2022. He received his Doctorate in Medicine in 1990, a specialty training certificate in Internal Medicine in 1996, and a sub-specialty training certificate in Infectious Diseases in 2012 from the College of Health Sciences,

Addis Ababa University. He received a PhD in Infectious Diseases from Karolinska Institute, Stockholm, Sweden, in 2015. He is the head of the Division of Infectious diseases and HIV medicine at the Department of Internal medicine, College of Health Sciences, Addis Ababa University. He was the college's research and technology transfer director from January 2019 to December 2022. At the national level, he has served on various committees. He gave technical assistance to the National HIV/AIDS Programs Coordinating Office (HAPCO) and the Ethiopian Ministry of Health from 2007 until currently on issues related to different infectious diseases. He was a member of the scientific advisory committee, ICASA 2011, FMOH, and the WHO HIV treatment guideline group 2011. He published over 100 articles in peer-reviewed journals and supervised 12 MSc and 5 PhD candidates. He won an NIH grant as PI in 2014 (Grant number 1U01GH000763-01) and is one of the co-PIs for the Global Health Research Group on Developing Strategies for Hepatitis C in Ethiopia (DESTINE) project. He is the PI for the thematic research project at the AAU entitled „urinary tract infection among pregnant women and PLWH in selected health sectors of central Ethiopia: prevalence, causal agents, and antimicrobial resistance with molecular detection of genetic markers associated with resistance.“ He is an academic editor for two international (PLoS and Frontiers) and one national medical journal. In addition, he has been an Advisory board member for the Journal of Clinical Tuberculosis and other Mycobacterial Diseases since September 2018.

Professor Dr Utz Dornberger

is Professor for Development Economics with special emphasis on Small and Medium-sized Enterprises and the Director of the International SEPT Competence Center (SME Promotion and Training) at Leipzig University. His academic and professional focus lies primarily in innovation management in SMEs, innovation policies, promotion of entrepreneurship and internationalization process of businesses. Currently, he is also the Director of the Self Management Initiative Leipzig (Entrepreneurship Promotion Program) of Leipzig University. Prof. Dornberger is also the founder of in4in-Network (intelligence for innovation) promoting the cooperation between universities worldwide in the fields of technology transfer and entrepreneurship promotion.



© Private

Dr Basil Benduri Kaburi

is a Ghanaian medical epidemiologist. He graduated medical school in 2008 and practiced as a clinician and health service manager in the Ghana Health Service for seven years. He holds a PGD in occupational health (policy and practice), fellowship in health policy and economics, MPhil in applied epidemiology and disease control, advance field epidemiology competency certification, PG certificate in field management of infectious diseases, and certification in behavioural and communication strategies for global epidemics. He has worked in multinational and multidisciplinary teams in collaborative research and public health workforce training programmes. Some of these include Public Health England (now UK Health Security Agency) and the Norwegian Institute of Public Health on an environmental epidemiology training curriculum for enhancing global health security. He also worked with the US-CDC on a second year of life vaccination (2YL) project, KOICA and US-CDC on intermediate field epidemiology training programme, and Vital Strategies in collaboration with African Field Epidemiology Network (AFENET) on a rapid mortality surveillance project in Ghana. He has provided short-term consultancy services for West Africa Health Organisation (WAHO) on post Ebola outbreak public health emergency preparedness of Liberia (2018), and for the International Rescue Committee (IRC) COVID-19 response support for Liberia (2020). His research interest pivots around One Health in which he has researched and published articles in surveillance, outbreak response, antimicrobial resistance, environmental epidemiology, implementation and evaluation of public health systems, and workforce development. Aside English language, he has intermediate fluency in written and spoken French and German.



Professor Beate Kampmann MD PhD FRCPCH FMed Sci

Beate Kampmann is Professor of Global Health and scientific director of the newly established Charite Centre for Global Health and the Institut für Internationale Gesundheit, Charite Virchow Campus.

She recently relocated to Berlin from a Chair in Paediatric Infection & Immunity at The London School of Hygiene and Tropical Medicine (LSHTM), where she directed the Vaccine Centre at LSHTM <https://www.lshtm.ac.uk/research/centres/vaccine-centre>. Over the last 12 years,

she has divided her working time between London and The Gambia, West Africa, where she led the Vaccines and Immunity research and the Childhood Tuberculosis portfolio at the MRC Unit-The Gambia in West Africa. She continues her project and PhD student supervision. Beate trained as a clinician-scientist in Germany, France, USA, South Africa and the UK and holds an MD from the University of Cologne and a PhD from Imperial College, UK. She is a Fellow of the Academy of Medical Sciences, the Royal College of Paediatrics and Child Health in the UK and the West African College of Physicians and an MRC Senior Researcher. Her translational research portfolio focuses on innate and acquired immune responses to infection and vaccination, including in pregnant women and infants and the conduct of clinical trials of novel vaccines and adjuvants. She is the director of IMPRINT- the IMMunising PRegnant women and INfants network. <https://www.imprint-network.co.uk/>, a UKRI-GCRF-funded multi-disciplinary and global network of scientists, clinicians and public health representatives with a special interest in vaccines for pregnant women and newborns and has published over 300 articles.

She has remained clinically active in paediatric infectious diseases throughout her career and has looked after many children with infectious diseases in both Europe and Africa. She has made significant contributions to the career development of young clinician-scientists in both places.



Dr Reagon Karki

worked (Uni Bonn and Fraunhofer SCAI) in the field of neurodegenerative diseases, especially in Alzheimer and Parkinson Disease for about 5 years (Project: AETIONOMY). He specialized in Alzheimer-Diabetes comorbidity through identification of shared genomics, genetics and mechanisms.

His expertise and strengths are applications of systems biology which include knowledge and data integration, disease modeling, hypothesis generation and in silico validation. Currently, Dr Karki is working at

Fraunhofer ITMP, Hamburg as a Researcher/Data Manager and contributes to projects such as PROXIDRUGS, BY-COVID, EOSC Future and AIOLOS.



Professor Dr Dr h.c. Stefan H.E. Kaufmann

is Founding Director of the Max Planck Institute for Infection Biology in Berlin, Germany, where he now is Director Emeritus. He leads the Emeritus group on systems immunology at the Max Planck Institute for Biophysical Chemistry in Göttingen. He is also Professor of Microbiology and Immunology at Charité University Clinics Berlin, Germany, and a Faculty Fellow of the Hagler Institute for Advanced Study at Texas A&M University, College Station, Texas, USA. He received his Doctor

Honoris Causa from the Aix-Marseille University, France and is Fellow of the Royal College of Physicians of Edinburgh (FRCP Edin), UK. His scientific interests include immunity to bacterial pathogens with emphasis on tuberculosis and rational design of vaccines and biosignatures. He is the developer of a tuberculosis vaccine that has reached phase III clinical trial. Kaufmann is former president and honorary member of the German Society for Immunology, former president of the European Federation of Immunological Societies and of the International Union of Immunological Societies. He received numerous prestigious scientific awards, most recently the Gagna A. & Ch. Van Heck Prize. He has more than 900 publications mostly in high-ranking journals with more than 70,000 citations and an h-index of 141 according to Google Scholar; Thomson/ISI: 111. He is member of numerous professional societies and academies including the German National Academy of Sciences Leopoldina, the American Academy of Microbiology, Berlin-Brandenburg Academy of Sciences and Humanities, World Innovation Foundation, and European Molecular Biology Organization (EMBO).

Max Planck Institute of Infection Biology, Berlin, Germany

Dr Berit Lange

is a physician and epidemiologist. After studying medicine in Freiburg, Madrid, Chile and Peru, she worked for several years in Infectiology and Internal Medicine at the University Hospital Freiburg. In 2013, she graduated with a Master of Science in epidemiology from the London School of Hygiene and Tropical Medicine (LSHTM) and returned to the University Hospital of Freiburg after a postdoctoral period at the Infectious Disease Epidemiology at LSHTM. Between 2016 and 2019, she was responsible for the core module and the epidemiology course of a newly established Master's programme (Global Urban Health) at the University of Freiburg. From 2017 to 2019, she also led a research group on infectious disease epidemiology and global health there, in addition to her clinical work in Infectious Diseases.

In May 2019, Berit Lange took over the Clinical Epidemiology team in the Department of Epidemiology at the HZI. Her work focuses on better understanding the spread and burden of disease caused by respiratory infections and evaluating measures to reduce the burden of disease. To do this, she uses multicentre clinical and population-based cohort studies, surveillance data, evidence synthesis and *infection* modelling.

In March 2023, she took over as acting head of the Epidemiology Department.

Berit Lange is elected Deputy President of the German Society of Epidemiology for 2023 and 2026 and President for 2024 and 2025. She has been spokesperson for the Modeling Network for Serious Infectious Diseases since November 2022 and has been responsible for epidemiology on the TBNet Steering Committee since 2017.

Source: <https://www.helmholtz-hzi.de/en/research/research-topics/bacterial-and-viral-pathogens/epidemiology/berit-lange>



Dr Morena Makhoana

joined Biovac in 2004 and holds the role of Chief Executive Officer. He is a member of the Board and the Biovac Executive team. His mandate is to realise the objective of building vaccine manufacturing capacity in Southern Africa.

During Morena's tenure, Biovac has secured three successful technology transfers with global pharmaceutical companies such as Sanofi and Pfizer that has allowed the company to grow its staff complement from 24 to over 400.

Morena is a medical graduate from the University of Cape Town (UCT) in South Africa and has participated in numerous executive and business courses at both Harvard and Stanford Universities. Prior to his CEO role at Biovac he held the role of Deputy CEO and prior to that of Medical Affairs Director for Biovac.

He serves on a number of committees within the vaccine industry and serves as a board member of other healthcare and non-healthcare companies.



Dr Lyle Murray

is a Lecturer at the University of the Witwatersrand and a Consultant in Infectious Diseases at Charlotte Maxeke Johannesburg Academic in Johannesburg, South Africa. He is a clinician scientist with a particular interest in the immunology of infectious diseases and the impact of HIV infection thereon. He completed his MBChB at the University of Cape Town and his specialist clinical training in Internal Medicine and Infectious Diseases at the University of the Witwatersrand. He did a

DPhil (PhD) as a Rhodes Scholar in the Nuffield Department of Clinical Medicine at Oxford University focussing on the reconstitution of immunity to *Mycobacterium tuberculosis* in individuals with HIV on antiretroviral therapy. His current research involves the Genetics, Immunology and Virology of COVID-19 in Africa (GIVOCA) study that explores the genetics of the immune response to SARS-CoV-2 in black Africans. He also has an interest in HIV cure and immunotherapy research and is an alumnus of the IAS HIV Cure Academy. He is involved as an investigator in multiple multinational clinical trials in the fields of Infectious Diseases and Pulmonology including the RECOVERY and REMAP-CAP trials.



Dr Ruth Narmann

is Deputy Head of the International Relations Department of the German National Academy of Sciences Leopoldina. She co-ordinates the Asia Desk of the Academy and Leopoldina's involvement with international organizations/UN. She is also engaged in the national academies' activities to provide policy advice to the annual G7- and G20 summits. Before joining Leopoldina, Dr Narmann gained extensive experience in international science and research management, e.g. at German

Research Foundation (DFG). Dr Narmann studied Chinese Studies, American Studies and Speech Communication and Rhetoric at the University of Tübingen (Germany), National Political University (Taipeh, R.O.C.) and Yale University (New Haven, USA). She received her PhD from the University of Tübingen.

Professor Dr Ndeye Fatou Ngom

is an Infectious Diseases Professor at the University Alioune Diop of Bambey of Senegal. She graduated from the Faculty of Medicine and Dentistry of Cheikh Anta Diop University in Dakar where she obtained her doctorate in medicine in 1998. She is a specialist in infectious and tropical diseases at the same university and holds a doctorate in public health, epidemiology at the University of Montpellier under the direction of Professor Eric Delaporte from the IRD of Montpellier.

Professor Ngom is an experienced public health professional, with over twenty years of experience implementing HIV prevention, care and treatment and managing chronic transmissible pathologies. She is a teacher in Medicine and community health at University of Bambey since 2017. In addition to that, she is working as a Chief of the HIV clinical ambulatory treatment Center in Fann Hospital since 1998. She worked in general on HIV/AIDS, tuberculosis and Hepatitis in particular, focusing on clinical management and care, teaching and research. Her research focused particularly on the diagnosis and treatment of opportunistic infections as well as first line antiretroviral therapies and HIV/AIDS management strategies in resources limited countries and Hepatitis management. She has contributed significantly to the community approach to HIV care in Senegal and neighboring countries.

Fatou was a member of the Senegalese Writing ARV Guidelines Committee. She participated in the production of policy documents, standards, care management guidelines, PMTCT, screening, Counseling in Senegal and beyond. She is currently responsible for the Chair of Infectious Diseases at the UADB and Head of the Department of Medicine at the same University.



© Private

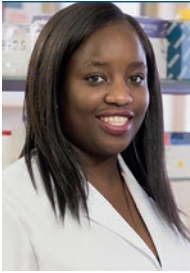
Dr Nthatsi Nyembe

is a lecturer at the University of the Free State, Qwaqwa campus in the department of Zoology and Entomology. She completed her postdoctoral fellowship at the North-West University, North-West Province of South Africa. She graduated from Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Hokkaido, Japan, with a Doctor of Philosophy in Animal and Food Hygiene, specializing in Animal Husbandry. She obtained her BSc degree in Botany and proceeded to

B.Sc. Honours and M.Sc. degree in Zoology, with focus on Veterinary Parasitology, at the University of the Free State, Qwaqwa campus, South Africa. Her B.Sc. Honours and M.Sc. thesis focused on screening medicinal plants for possible compounds for the treatment of parasitic gastrointestinal nematodes of small stock (sheep and goats).

Her current research focuses on the screening of natural and synthetic compounds for the treatment of tropical diseases such as trypanosomosis, malaria, leishmania, and toxoplasmosis. She has worked as a research assistant at Obihiro University of Agriculture and Veterinary Medicine and the University of Free State in the parasitology and biology fields. Her research interests include drug screening, nanoparticles, zoonotic disease, diagnostics and epidemiology, and cell cultures. Her hobbies are skiing, traveling, reading, and community involvement.

© Private



Dr Khutso Phalane-Legoale

Programme Officer: Health and Related Sciences, Academy of Science of South Africa (ASSAf)

Markus Scholz for the Leopoldina



Dr Thomas Plötze

Senior Officer, International Relations Department, German National Academy of Sciences Leopoldina

© Private



Professor Dr Joacim Rocklöv

is an epidemiologist, modeler and data scientist conducting interdisciplinary research within the field of climate change and infectious diseases. He obtained his PhD from Umeå University, Sweden. In the year 2021, he was awarded an Alexander von Humboldt Professorship endowed by the The Federal Ministry of Education and Research in Germany. The chair at Heidelberg University focuses on applying data science and modelling to the area of One Health and climate change. It functions as a bridge between the Heidelberg Institute of Global Health (HIGH) and the interdisciplinary Centre for Scientific Computing (IWR). Prior to the Alexander von Humboldt award, Rocklöv was in the year 2018 awarded the Albert II of Monaco and the Institute Pasteur Prize for research on environmental change and infectious diseases. Professor Rocklöv is a Guest Professor at Umeå University in Sweden.

<https://csidlab.iwr.uni-heidelberg.de/index.html>

© German Federal Ministry of Health



Heiko Rottmann-Großner

heads the Department of Health Security in the Federal Ministry of Health (MoH) in Germany since 2018. This department includes units e.g. for infectious diseases, crisis management, pandemic preparedness and counter bioterrorism.

From 2013 to 2018, Mr. Rottmann was the Head of Executive Group of the MoH. Before joining MoH, from 2009 to 2013, he operated for the political party Christian Democratic Union (CDU) of Germany in Berlin as head of Office of the Secretary General. From 2002 to 2008 he worked as Personal Adviser to Minister of State and State secretary in the Federal Chancellery and to Member of Parliament in the German Bundestag in Berlin.

Mr. Rottmann holds a bachelor degree of Political Sciences and Economics. He holds the military rank „Major“ in the reserve of the Medical Service of the German Armed Forces (Bundeswehr).

H. E. Ambassador Phumelele Stone Sizani

has been accredited as Extraordinary and Plenipotentiary Ambassador of the Republic of South Africa to the Federal Republic of Germany since 2016. At the age of 18 he was arrested and sent to Robben Island as a political prisoner, where he remained incarcerated from 1978 to 1980. From 2008 to 2016, Ambassador Sizani served as Member of Parliament, the last three years of which he acted as Chief Whip of the ANC.

Source: <https://www.suedafrika.org/en/embassy/ambassador.html>



© Private

Professor Dr Papa Salif Sow

is a Medical Doctor, an Infectious Diseases specialist, and a Professor from the University of Dakar Senegal. He extensively worked in the field of Infectious Diseases in general and HIV/AIDS, tuberculosis, and malaria focusing on clinical care, teaching, and research. Professor Sow is an expert on global health diplomacy with a focus on emerging infectious diseases and pandemic management. He is a member of the Senegalese National Academy of Sciences and Technology (ANSTS), President of the

Scientific Commission for Research and Innovation.



© Falling Walls Foundation

Nina Spiri

studied Innovation Management & Entrepreneurship at the TU Berlin as well as Business Administration at the University of Twente. After graduation, she started her career as Innovation Manager in the medical field at World of Medicine in Berlin. Building up a small but dedicated innovation department there, Nina became more and more passionate about facilitating group workshops and trainings with the focus on user-centered approaches (i.e. Design Thinking). Since 2018, she works as innovation trainer & coach, mainly in the NGO sector. At Falling Walls, Nina has been developing the curriculum for “Young Entrepreneurs in Science”, a project that promotes Entrepreneurship, Intrapreneurship & Innovation as inspiring career options for PhDs and PostDocs by offering different workshops and webinars.

© Private



Professor Dr Workeabeba Abebe Taye

is professor of pediatric infectious diseases at the Department of Pediatrics and Child Health, College Health Sciences, Addis Ababa University (AAU). She is also a Consultant Pediatrician and the first Pediatric Infectious Diseases sub-specialist at Tikur Anbessa Specialized Hospital (TASH). She is a chair of the Department of Pediatric and child health. Her research interests focus on childhood infectious diseases mainly pediatric HIV, hospital epidemiology, antimicrobial resistance, and antimicrobial stewardship. Currently, she is PI of the research project on surveillance of healthcare-associated infections and feasible laboratory-strengthening interventions for a sustainable clinical bacteriology sector to support antimicrobial stewardship at TASH. She has published over 70 peer-reviewed research articles in reputable journals. Her publications can be accessed on Google Scholar using the link <https://scholar.google.com/citations?user=HTCgLfkAAAAJ&hl=en>

She is member of the Editorial Boards of Ethiopian Journal Pediatric and Child Health and Ethiopian Medical Journal. She is also member of technical and advisory groups for pediatric ART at the Federal Ministry of Health; member of the National Immunization Technical Advisory Group (NITAG) and EC member for the National Certificate Committee (NCC) for Polio free status of Ethiopia. She is a fellow of the Young Academy of Sciences at the Ethiopian Academy of Sciences.

Currently, Prof. Workeabeba is founding member of the Women Health Research Working Group (WHRWG) at AAU, Chair of Adverse effect following immunization (AEFI) at Ethiopian Food and Drug Authority (EFDA), and member of the Africa Union-Smart Safety Surveillance Joint Signal Management (AU-3S JSM).

© Private



Dr Melusi Thwala

Manager: Science Advisory and Strategic Partnerships Academy of Science of South Africa (ASSAf)



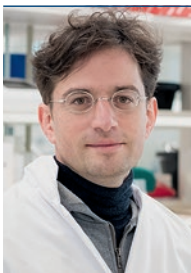
Professor Dr Ndèye Coumba Touré Kane

is Rector of El-hadj Ibrahima NIASS University of Sine Saloum (USSEIN) since July 2020. She is a Pharmacist-Biologist, specialist in Bacteriology-virology, Holder of a PhD in molecular virology. She is Full Professor of exceptional class in Bacteriology-Virology at University, Scientific Director and Head of the IRESSEF Biology Platform (Research Institute in Senegal), Technical Advisor N°1 to the Minister of Higher Education, Research and Innovation from May 2019 to July 2020. She a member of the Senegalese National Academy of Sciences and Technology.

Her research interests include:

- ▶ In the Health field: the molecular epidemiology, physiopathology and Drug Resistance of HIV and many other infectious diseases agents. She assisted in the implementation of Alternative tools for the virologic monitoring of HIV infected patients including the DBS (Dried Blood Spot) for Viral Load and Genotyping assays. She has contributed to the documentation of molecular epidemiology of HIV, HPV and HBV in several countries of the African AIDS Research Network. She also contributed to the laboratory system strengthening in many countries.
- ▶ In the field of food safety and environment, she is working in bioconservation, HACCP implementation in industries including little ones. She is also working on the environmental impact of food and health by using novel approach toward monitoring air quality and its linkage to respiratory health and using metagenomic technology for pathogens detection.
- ▶ She is active in the One Health approach promotion for better recognition by stakeholders that the health of people is closely connected to the health of animals and our shared environment and encourage collaborations in research and sharing of knowledge at multiple levels across various disciplines like human health, animal health, plants, soil, environmental and ecosystem health in ways that improve, protect and defend the health of all species.

She is involved in many research projects. She authored or co-authored more than 200 papers published in international peer-reviewed journals. She is member also of many scientific boards, organizations and is very active in the promotion of scientific women.



Dr Emanuel Wyler

works as a molecular biologist in the lab of Markus Landthaler at the Berlin Institute for Medical Systems Biology, within the Max Delbrück Center for Molecular Medicine in the Helmholtz association. In his research, he investigates molecular processes in herpes and coronavirus infections, as well as high-throughput sequencing-based metagenomics of wastewater samples.

Partnering Academies

The **Académie Nationale des Sciences et Techniques du Sénégal (ANSTS)** is a non-profit learned society under the patronage and protection of the Head of State. The purpose of the Academy is to assist, to advise the Senegalese State and the Public and Private Institutions within the framework of the definition and the implementation of the National Policy as regards Science and Technology; to encourage scientific research, to initiate, impulse and develop programs in the fields of Science and Technology; to contribute to the promotion and valorization of research results; to encourage scientific vocations among young people and women; to facilitate exchanges with similar organizations; to award prizes and fellowships to individuals who have particularly distinguished themselves through their work; to contribute to the development of scientific culture and the rapprochement between Science and Society.

► www.ansts.sn

The **Academy of Science of South Africa (ASSAf)** aspires to be the apex organisation for science and scholarship in South Africa, recognised and connected both nationally and internationally. Through its membership which represents the collective voice of the most active scholars in all fields of scholarly enquiry, ASSAf aims to generate evidence-based solutions to national problems.

► www.assaf.org.za

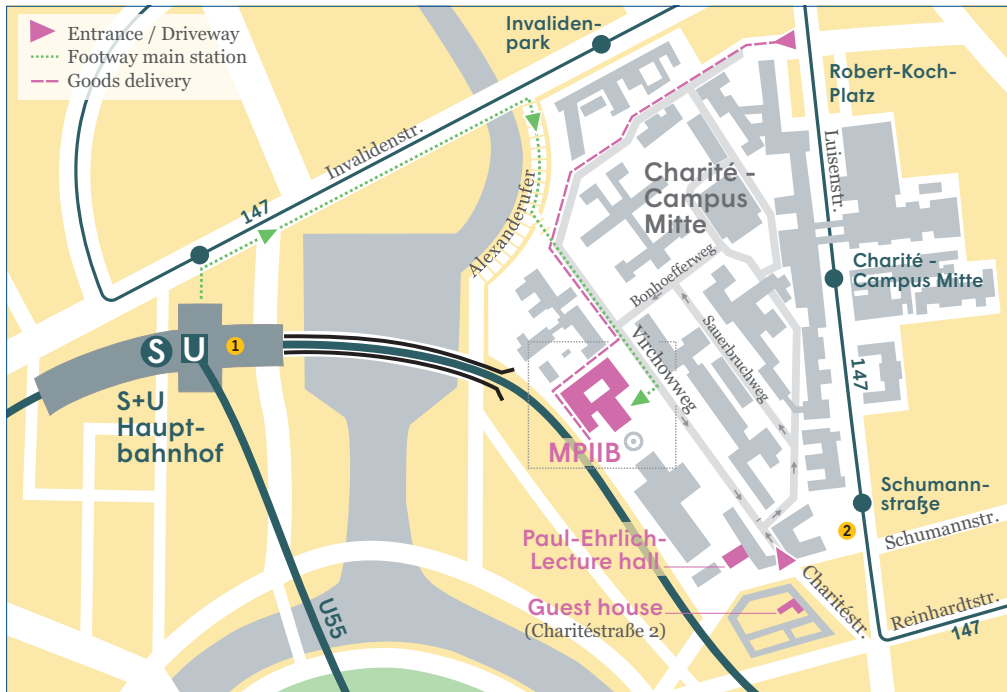
The **Ethiopian Academy of Sciences (EAS)** is a nonprofit and non-governmental organization established in 2010 to promote a culture of scientific inquiry and creativity and the pursuit of excellence and scholarship in the sciences among Ethiopians. The Academy embraces the diverse disciplines of science and recognizes the irreplaceable role each play in developing innovation, creativity and enriching the quality of life for Ethiopians and hence has and continues to make a concerted effort to ensure that the diverse disciplines of sciences are, as much as possible, represented in the composition of our Fellows and Working Groups. The Ethiopian Academy of Sciences strives to foster scientific culture and innovation and advance the knowledge of the sciences, arts and indigenous knowledge.

► www.eas-et.org

Founded in 1652, the **German National Academy of Sciences Leopoldina** brings together some 1,500 outstanding scientists from about 30 countries. It is dedicated to the advancement of science for the benefit of humankind and to shaping a better future. In its role as the German National Academy of Sciences, the Leopoldina represents the German scientific community in international committees. It offers unbiased scientific opinions on political and societal questions, publishing independent studies of national and international significance. The Leopoldina promotes scientific and public debate, supports young scientists, confers awards for scientific achievements, conducts research projects, and campaigns for the human rights of persecuted scientists.

► www.leopoldina.org

How to get there



Venue:
Max Planck Institute for
Infection Biology
Charitéplatz 1 (Campus Charité Mitte)
10117 Berlin

The event is kindly supported by:



Contact:

Dr Thomas Plötze
Senior Officer, International Relations Department
German National Academy of Sciences Leopoldina
Phone: +49 (0)345 47239-832
Email: international@leopoldina.org

Dr Khutso Phalane-Legoale
Programme Officer: Health and Related Sciences
Academy of Science of South Africa (ASSAf)
Phone: +27 12 349 6600
Email: khutso@assaf.org.za

www.leopoldina.org

Further Information:

