

Conference Program MOUNT MERU HOTEL | ARUSHA, TANZANIA

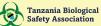


Global Voices

Celebrating Diversity in Biosafety & Biosecurity









Global Partnership Against the Spread of Weapons and Materials of Mass Destruction





Welcome to the Global Voices conference, hosted by the International Federation of Biosafety Associations (IFBA) and Tanzania Biological Safety Association (TaBSA). Under the umbrella of Canada's G7 Presidency of the Global Partnership Against the Spread of Weapons and Materials of Mass Destruction, this conference reiterates its ongoing commitment of inclusivity and building bridges within our global community.

The Global Voices conference will feature presentations and panel discussions from our diverse global network of biosafety & biosecurity professionals. This diversity isn't limited to cultural, ethnic or gender differences – it encompasses a rich tapestry of thought, experience, education, and expertise. Our community has been unlocking the value of their diversity, driving innovation and creativity in their approaches. When we come together, we bring a range of new possibilities to the table, gather details from the life experiences of others and amplify our collective knowledge. Delegates have a remarkable opportunity this week to meet each other in-person, share unique perspectives from all corners of the globe, and gain a deeper understanding of the best way to work towards global health security.

As a global biosafety & biosecurity community, collectively our diversity is our greatest asset.

Tuko Pamoja!



WELCOME MESSAGE



Tanzania Biological Safety Association (TaBSA) President, Dr. Zachariah Ephraim Makondo

Guest of Honor, Delegates from Government of Tanzania, Delegates from the Government of Canada, IFBA Executive Director, IFBA Member Associations, Dear Biosafety and Biosecurity Community,

Ladies and Gentlemen,

I greet you, "Jamhuri ya Muungano wa Tanzania". On behalf of Tanzania Biological Safety Association (TaBSA), I'm greatly privileged and excited to welcome you all for the International Biosafety and Biosecurity Conference "Global Voices: Celebrating Diversity in Biosafety & Biosecurity" being held for the first time in Africa and indeed here in tourism city of Arusha, Tanzania.

There is unprecedented challenges globally which is brought about by increasing emerging and reemerging animal and human health threats due to factors such as climate change, potential bioterrorism and other high-risk pathogens with pandemic potentials. TaBSA is doing all it entails to address the challenges aforementioned with taskforces laid out from different career paths and outreach platforms to help pave the way to tackle biosafety and biosecurity concerns. I would like to recognize by all teams, committees, technical working groups and others who continue to move forward the amazing work of biological risk management.

Allow me to extend my sincere thanks to Government of Tanzania officials, delegates from the Government of Canada, IFBA Executive Director, IFBA Member Associations and all participants for their continued participation and enthusiasm in our Biosafety and Biosecurity community. Partners and Sponsors, thank you for your incredible support before and during this conference session. To the Guest of Honor, thank you too for accepting to grace our conference amid your tight schedule, your presence here means a lot and we believe your good office will support our efforts towards implementing the requirement for the Biological Weapon Convention and establishing a Biosafety and Biosecurity Legislation in Tanzania.

I wish you all fruitful participation of the conference.



WELCOME MESSAGE



International Federation of Biosafety Associations (IFBA) Board Chair, Dr. Miguel Martin N. Moreno II

Ladies and Gentlemen, Esteemed colleagues, Cherished friends, It is with great pleasure that I welcome you to the International Federation of Biosafety Associations Global Voices Conference: Celebrating Diversity in Biosafety & Biosecurity. Hosted in the vibrant city of Arusha, Tanzania, this event reflects the diverse and dynamic nature of our field. Our gratitude goes to the Tanzania Biological Safety Association (TaBSA) and the dedicated conference organizing team whose efforts have made this conference possible, symbolizing a collective commitment to global unity and collaboration.

As we embark on this journey together, we look forward to exploring a tapestry of sessions designed to enrich our understanding and practices in biosafety and biosecurity. Through diverse perspectives, achievements of our global community, insights from future leaders, and discussions on emerging challenges and strategies, this conference promises to be a transformative experience. Let us embrace the diversity that strengthens us and build networks that will advance global health security for all. Welcome to this historic event, and may it be a meaningful and enriching experience for everyone involved. Thank you.



WELCOME MESSAGE



Global Affairs Canada and the Global Partnership Against the Spread of Weapons and Materials of Mass Destruction Trevor Smith

Canada's Weapons Threat Reduction Program (WTRP) is very proud to support this inaugural Global Voices Conference: Celebrating Diversity in Biosafety & Biosecurity. Together with the other member countries of the G7-led Global Partnership Against the Spread of Weapons and Materials of Mass Destruction, we are deeply committed to advancing gender equality through the creation and delivery of impactful programming to prevent, detect and respond to threats posed by chemical, biological, radiological and nuclear (CBRN) weapons and materials. The Global Voices Conference, which will convene at the very outset of Canada's 2025 G7 Presidency, provides a platform to highlight and further advance the African Women's Network for Biosafety and Biosecurity, a WTRP-conceived and supported effort through the Global Partnership's Signature Initiative to Mitigate Biological Threats in Africa (SIMBA). The establishment of the African Women's Network is an important step towards gender equality and empowering women in the biosafety and biosecurity context, but it is only the beginning. What comes next is up to you, the participants at the Global Voices Conference. It is for you to identify what more can be done, by whom and where. And it is for all of us who will gather in the beauty of Arusha, Tanzania to consider how to connect continents and build bridges so that the global health security community of tomorrow will better reflect and leverage the tremendous talents, expertise, and potential of a more diverse stakeholder community.



THANK YOU

Thank You to the Global Voices Conference Sponsors

The Global Voices Conference extends its gratitude to its partners and sponsors for making this event possible and enabling delegates to attend from all parts of the world. Their support demonstrates a commitment to diversity, equity & inclusion within the international biosafety & biosecurity community. Together, through collaboration and forging strategic partnerships within our diverse communities, we can collectively work towards global health security.

Asante sana to all our conference partners & sponsors!







Monday, January 20th

8:30am	Workshop Registration
9:00am	Workshop Commencement
10:30am	Networking Tea Break (30min)
1:00pm	Lunch Break (60min)
2:00pm	Workshop Conťd
3:30pm	Networking Tea Break (30min)
5:00pm	Workshop Completion
TEMBO ROOM	

9:00am-5:00pm	Cyberbiosecurity

FARU ROOM

9:00am-5:00pm	Biological Risk Assessment

Tuesday, January 21st

Workshop Registration
Workshop Commencement
Networking Tea Break (30min)
Lunch Break (60min)
Workshop Cont'd
Networking Tea Break (30min)
Workshop Completion

TEMBO ROOM

9:00am-5:00pm	Cyb
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Cyberbiosecurity Cont'd

FARU ROOM

9:00am-1:00pm	Diversity, Equity & Inclusion in Biosafety & Biosecurity
2:00pm-5:00pm	Dual Use Research, Bioethics & DNA Synthesis Screening



Wednesday, January 22nd CONFERENCE CENTRE / TEMBO ROOM 8:00AM - 5:00PM

8:00am 9:00am	Conference Registration (Conference Centre) Opening Ceremony (Conference Centre)
	Master of Ceremonies, Jacob Lusekelo, Ministry of Health, Tanzania
	Arrival Guest of Honor
	Hon. William Vangimembe Lukuvi (MP), Minister of State, Prime Minister's Office (Policy, Parliament, and Coordination), Tanzania
	National Anthem, East Africa Anthem
	Welcoming Remarks
	Global Affairs Canada
	Zachariah Ephraim Makondo, President, TaBSA
	Miguel Martin N. Moreno II, Chair, IFBA Board of Directors
	Broadcast of "Global Voices: Diversity is Strength" Video
10:15am	Guest of Honor Opening Speech
10:45am	Official Photo & Networking Tea Break
12:00pm	Keynote Address (Conference Centre)
	Professor Gerald Misinzo, SACIDS Foundation for One Health, Sokoine University of Agriculture, Tanzania
12:30pm	ASEAN Leaders Declaration on Biosafety & Biosecurity
12:45pm	Maasai Indigenous Knowledge on Pastoralism & Infectious Diseases
	Eddy Cleopa Ole Sululu, Sululu Boma, Tanzania
1:00pm	Lunch Break (60min)
2:00pm	Parallel Breakout Sessions



Wednesday, January 22nd

CONFERENCE CENTRE / TEMBO ROOM 8:00AM - 5:00PM

2:00pm Parallel Breakout Sessions

Stream 1 – Diverse Perspectives in Biosafety & Biosecurity CONFERENCE CENTRE

Moderator, Nataly Spears, Global Affairs Canada

Ireen Kiwelu, Kilimanjaro Clinical Research Institute, "Establishment of the KCMC Centre of Excellence in Tanzania"

Sana Masmoudi, Coalition for Epidemic Preparedness Innovations, "Intersection Between Biosecurity and Equity"

Rachel Gamble, Director Science & Technology, Pond & Company, "Collaborative Biological Risk Assessment: A Diversified and Inclusive Team-Based Approach to Risk Mitigation"

Catarina Santos, "Biosafety and Biosecurity in Lusophone Countries"

Stream 2 - IFBA Member Associations Highlights TEMBO ROOM

Moderator, Khalid Temsamani, Moroccan Biosafety Association

Olivier Manigart, IFBA Board of Directors, West African Biorisk Management Network "WABNET – West Africa's Voices for Biorisk Management"

Geoff Jagero, President, Biorisk Management Association of Kenya, "Biorisk Associations, Business Unusual"

Shawn Kirk, Chairman, Caribbean Society for Biosafety & Biosecurity, "Braving the Waters: Navigating Biosafety and Biosecurity across the Caribbean"

Maureen Ellis, Executive Director, "IFBA 5-year Strategic Plan "Vision of Tomorrow": Where are we Now & Where are we Going?"

3:30pmNetworking Tea Break (30min)4:00pmParallel Breakout Sessions cont'd



Wednesday, January 22nd

CONFERENCE CENTRE / TEMBO ROOM 8:00AM - 5:00PM

4:00pm Parallel Breakout Sessions cont'd

Stream 1 – Diverse Perspectives in Biosafety & Biosecurity CONFERENCE CENTRE

Moderator, James Sakwa, Masinde Muliro University of Science and Technology

Paula Sotto-Mayor, Angola, "Community of Portuguese Speaking Countries: FELINO Exercise"

Vorathep Sachdev, University of Edinburgh, "A Critical Perspective on Laboratory Biosafety & Biosecurity Governance in Thailand"

Gábor Kemenesi, National Laboratory of Virology, University of Pécs, Hungary "HCL Research and Training Center in Hungary: Cutting-Edge Research, Biosafety Training and International Collaboration Opportunities at the National Laboratory of Virology"

P.T. Nhean, Dominique Anne S. Aluquin, Jo Yi Chow, NTI Next Generation for Biosecurity, "Advancing Gender Equity in ASEAN Agriculture for Resilient Biosecurity"

Stream 2 - IFBA Member Association Business Meeting (By Invitation Only) TEMBO ROOM

IFBA Member Associations Business Meeting

5:00pm

End Conference Day 1



Thursday, January 23rd

CONFERENCE CENTRE / TEMBO ROOM 8:00AM - 5:00PM

8:00am	Morning Meet & Greet (Conference Centre)
	IFBA and TaBSA Conference Hosts, Conference Sponsors
9:00am	Plenary Session (Conference Centre) Moderator, Jeremiah Seni, Catholic University of Health and Allied Sciences, Tanzania
	Paul Okwalinga, President Biosafety Biosecurity Association Uganda, "Strengthening Uganda's Health Security Resilience: Implementing Risk-Based Biosafety and Biosecurity Standards Across Human, Animal, Water, and Environment Sectors"
	Ben Fontes, Senior Associate Director/Biosafety Officer, Yale University "Advancing and Sustaining Biorisk Principles Through Partnership and Shared Projects"
	Emile Muhindo-Milonde, National Institute Biomedical Research, Goma DRC, "Biosecurity in the Context of Epidemic Management at the Rodolphe Mérieux Laboratory"
	Jeff Serle, Germfree, "Containerized BSL 2 Laboratory with Worldwide Localizations: From Ghana to Hawaii"
10:30am	Networking Tea Break (30min)
11:00am	Plenary Session cont′d (Conference Centre) Moderator, Sacha Wallace-Sankarsingh, International Federation of Biosafety Associations
	Jacob Lusekelo, Tanzania Ministry Health, "Eastern Africa Regional Centre of Excellence for Biosafety & Biosecurity"
	Claudio Mafra, Brazilian Biosafety & Biosecurity Society, Chair IFBA Certification Body, "Upholding Professional Competency & the Future of our Global Network"
	Lela Bakanidze, Vice-President BACAC, "Biosafety Association for Central Asia & Caucasus: Building Regional Bridges"
1:00pm	Lunch Break (60min)
2:00pm	Parallel Breakout Sessions



Thursday, January 23rd

CONFERENCE CENTRE / TEMBO ROOM 8:00AM - 5:00PM

2:00pm Parallel Breakout Sessions

Stream 3 – Youth Leaders for A Vision of Tomorrow

CONFERENCE CENTRE

Moderator, Stephanie Norlock, International Federation of Biosafety Associations

Elvis Mambo, Brian Nabuyia, MMUST, "BSc. Biosafety & Biosecurity Video"

Trizzer Ochieng, Fides Mukuri, Susan Tuvei, MMUST "In our Own Words: Defining a Next Generation of Women Biosafety & Biosecurity Champions"

Janet Hankins, University of British Columbia, "Bridging Borders: Perspectives on International Co-Teaching MMUST BSc Biosafety and Biosecurity"

Leonard Makanga & Aggrey Barasa, MMUST "Biosafety Career Pathways: The Role of Biosafety Officers in an Industrial Context"

Luis Ochoa Carrera, Pandemic Tech, "Pandemic Tech Virtual Journal Club"

Stream 4 – Emerging Biosecurity Challenges

TEMB0 ROOM

Moderator, John Kuot Kuany Diing, Biosafety & Biosecurity Association South Sudan

Nyambura Moremi, Director Tanzania National Public Health Lab, "Mobile Laboratory Potential for Handling Infectious Agents and Biosafety Implications"

Peter Babigumira Ahabwe, National Institute of Public Health, Uganda, "Enhancing Regional Capacities for Detecting and Managing Deliberate Biological Threats in Africa"

Ronaldo Puno, Biorisk Association of Philippines, "Biosecurity Impact of Emerging Biotechnologies: The Southeast Asian Perspective"

Tarja Sironen, University of Helsinki, Finland "One Health Approach to Preparedness for Emerging Infectious Diseases"

3:30pmNetworking Tea Break (30min)4:00pmParallel Breakout Sessions cont'd



Thursday, January 23rd

CONFERENCE CENTRE / TEMBO ROOM 8:00AM - 5:00PM

4:00pm

Parallel Breakout Sessions cont'd

Stream 3 – Youth Leaders: A Vision of Tomorrow CONFERENCE CENTRE

Kelly Elimian, Biosecurity Game Changers "The Next Generation of Biosecurity Leaders"

Jud Rasmussen, One Marketing "Communication Across Generations and Cultures"

Judith Okolo, National Biotechnology Development Agency, Nigeria, "Biosafety Biosecurity Handbook for Students in Nigeria"

All Session Participants, "Envisioning Tomorrow: A Round-Table Discussion on Biosafety and Biosecurity's Next Generation"

Stream 5 – Implementation Strategies for ISO 35001 Biorisk Management TEMBO ROOM

Joris Sprokholt, RVIM, Netherlands, "Community-Based Approach to ISO35001 Implementation in East & Central Africa"

Stefan Wagener, Biorisk International, Malta, "International Accreditation System for Certification Bodies of ISO 35001:2019"

Panelists

Christine Namulindwa, National Health Lab & Diagnostic Services, Uganda

Tafesse Koran Wodaj, Animal Health Institute, Ethiopia

Musonda Mandona, Ministry of Health, Zambia

5:00pmEnd Conference Day 27:00pmGala BBQ Dinner (Mount Meru Hotel Garden)



Friday, January 24th

CONFERENCE CENTRE / TEMBO ROOM 8:00AM - 3:30PM

8:00am	Morning Meet & Greet (Conference Centre) Global Biosafety & Biosecurity Human Library
9:00am	Health Security Partners Special Session, "Global Biosecurity Success Stories: Diverse Perspectives on Implementing Effective Programs" (Conference Centre) Moderator, Taylor Sturman, Health Security Partners
	Judith Okolo, Nigeria, "Promoting Sustainable Biosecurity Practices in Nigeria through Capacity Building"
	Plebeian Medina, Philippines, "Building a Culture of Sustainable Biosafety and Biosecurity Training in the Philippines"
	Amanda Morais, Brazil, "Navigating Cyberbiosecurity Challenges: Bridging Laboratories and Society"
	Aysen Gargili, Turkey, "Development of a Select Agent List in Türkiye to Improve Biosafety and Biosecurity Oversight"
	Ali Ahmad Sheikh, Pakistan, "Implementing Biorisk Management Standard: Pakistan's Journey towards ISO 35001 Conformance and Capacity Building"
10:30am 11:00am	Networking Tea Break (30min) Parallel Breakout Sessions



Friday, January 24th

CONFERENCE CENTRE / TEMBO ROOM 8:00AM - 3:30PM

11:00am

Parallel Breakout Sessions

Stream 6 – Africa Women's Network Meeting TEMB0 R00M

Moderator, Dr. Ndekya Oriyo, Tanzania

Nataly Spears, Canada, "Opening Remarks on Behalf of the Global Partnership"

Stephanie Norlock, Canada, "The Role of Women's Networks in Cultivating Sustainable Futures in Health Security: Where Are We Now?"

Chinelo Ebruke, Nigeria; Mariam Laatifi, Morocco, "GP Women's Network Terms of Reference Overview & Update on Membership"

Nyambura Moremi, Tanzania, "Update on African Women Leaders Network Course"

Judith Okolo, Nigeria; James Marcomic Maragia, Kenya, "GP Women's Network Update on Activities"

Stream 7 - One Health Approach to Biosafety & Biosecurity

CONFERENCE CENTRE

Moderator, Rachel Gamble, Pond & Company

Ian Peter Busuulwa, Biological Threat Reduction, World Organisation for Animal Health (WOAH), "Advancing Biosafety and Biosecurity in Animal Health in Africa"

Angélique Angot, Animal Production & Health Division, Food & Agriculture Organization, "FAO Global Support on Biosafety/ Biosecurity in Veterinary Laboratories"

Ray Kayaga, Nelson Mandela African Institute of Science & Technology, Tanzania Veterinary Laboratory Agency "Protecting Researchers in the Field Against Infectious Zoonotic Rodent Diseases"

Gabriel Mkilema Shirima, Public Health Re-emerging & Emerging Infectious Zoonoses, Nelson Mandela African Institute of Science & Technology, "Assessment of Biosecurity Practices in Poultry Flock in Northern Tanzania"

1:00pmLunch Break (60min)2:00pmParallel Breakout Sessions cont'd



Friday, January 24th

CONFERENCE CENTRE / TEMBO ROOM 8:00AM - 3:30PM

2:00pm Parallel Breakout Sessions cont'd

Stream 6 – Africa Women's Network Meeting TEMB0 R00M

> Mah-Séré Keita, Mali; Geraldine Pretorius, South Africa, "Strategic Partnerships for the GP Women's Network"

Stephanie Norlock, Canada, "Next Steps for the GP Women's Network, Similar Networks in ASEAN and LAC Regions, and the IFBA DEI Implementation Tool"

Viewing Scientific Posters & Exhibits CONFERENCE CENTRE

> Closing Ceremony Best Poster Award Closing Remarks Global Affairs Canada Tanzania Biological Safety Association International Federation of Biosafety Associations

3:30pm End Conference

3:00pm



Global Voices Conference – Poster Presentations

Friday January 24th - 2:00pm Viewing Scientific Posters & Exhibits (Conference Centre)

1 Balancing Open Science and Biosecurity: Navigating the Dual-Use Dilemma in Modern Scientific Communication

> Professor Ali Talha Khalil, Assistant Professor, Molecular Biology Lady Reading Hospital Pakistan

2 Assessing Cyber Biosecurity Awareness & Online Behaviour among Life Science Researchers in Karachi-Pakistan

> Dr. Amber Khan, Research Fellow The Karachi Institute of Biotechnology & Genetic Engineering Pakistan

3 Promoting Biosecurity Education Among Nigeria Students: The Youth Engagement Program

> Dr. Judith Okolo, Assistant Chief Research Officer National Biotechnology Research and Development Agency Nigeria

4 Biological Risk Assessment Practices in Clinical & Research Laboratories in Nigeria

> Augusta Zuokemefa (presented by Judith Okolo), Assistant Chief Research Officer National Biotechnology Research Development Agency Ireland

5 Optimizing Autoclave Validations Using the F0 Value and Biological Indicators

Dr. Bintou Ahmadou Ahidjo, Assistant Professor/Research Platform Manager Facility for Infectious Disease & Epidemic Research University of British Columbia Canada



6	Building Global Biosafety: A Mexican Institute's Role in International Networking
	Carolina Becerril Esquivel, Biological Risk Management Coordinator Vice President
	Northeast Biomedical Research Center of the Mexican Social Security Mexican Biosafety Association Mexico
7	Combining Workers' Perceptions and Experts' Evaluations to Disclose Biological Risks
	Dionysis Vourtsis, President Communications & Project Officer Hellenic Biosafety Society IFBA Greece
8	The "My Mistake" Forum as a Catalyst for Improved Biosafety and Biosecurity in Laboratory Settings
	Dr. Hafsa Faruqui, Research Associate
	Dow University of Health Sciences Pakistan
9	A Capacity Building of Tertiary Care Hospital Laboratory for Biosafety & Biosecurity by Assessing & Predicting Gap Scoring by Use of BSS LAT 9.0 Software
	Dr. Jehan Zaib Arshad, Senior Medical Technologist
	Jinnah Post Graduate Medical Center Pakistan
10	Strengthening Laboratory Capacity for Biosafety and Biosecurity in Sindh, Pakistan
	Dr. Maria Zahid, Assistant Professor Dow University of Health Sciences Pakistan



11 Adherence to Biosafety Protocols in Medical and Veterinary Laboratories in Benin

Dr. Philippe Sessou, Associate Professor University of Abomey-Calavi Benin

12 Catalyzing Change: Strengthening Public Health Laboratories to Enhance Global Health Security Across Pakistan

Dr. Sadia Sabir, Technical Officer Labs & Biosafety Jhpiego An Affiliate of Johns Hopkins University Pakistan

13 Cultivating the Next Generation of Biosafety Professionals: Undergraduate BSc. Degree in Biosafety & Biosecurity

Dr. Susan Tuvei, Lecturer, Department of Medical Laboratory Sciences Masinde Muliro University of Science and Technology Kenya

14 POND & Company

James S. Ellis, Director of Architecture, Life Sciences POND & Company United States

15 BioSAFE Engineering

Roland Kallechy, Director of Operations BioSAFE Engineering United States

16 NuAire

Alicia Johnson, International Sales Manager NuAire United States



17	NTI bio Next Generation for Biosecurity Competition
	P.T. Nhean, Biosecurity Researcher, SEA Bio Cambodia
	Dominique Anne S. Aluquin, National University of Singapore Philippines
	Jo Yi Chow, Nanyang Technological University Malaysia
18	Advancing Regional Biocontainment and Diagnostics: Collaborative Research and Capacity Building Between BSL-4 and BSL-2+ Laboratories in the Balkans
	Dr. Pavle Banovic, Head, Department for Prevention of Rabies & Other Infectious Diseases
	Pasteur Institute Novi Sad Serbia
19	Laboratory Biological Medical Waste Management During SARS-CoV-2 Testing in Tripoli, Libya
	Professor Abdulaziz Zorgani, Head, Bacteriology Unit National Center for Disease Control Libya
20	One Health Approach to Biosafety & Biosecurity
	Mariam Makange, Chief Laboratory Scientist SACIDS Foundation for One Health at Sokoine University of Agriculture Tanzania
21	Fostering Equitable and Inclusive Biosafety & Biosecurity Practices
	Patience Mushanawani, Safety Officer Central Veterinary Laboratory
	Zimbabwe



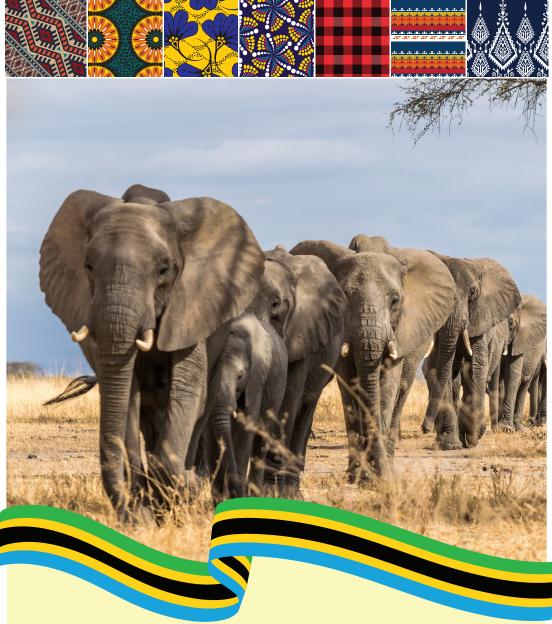
22 One Health Approach to Biosafety & Biosecurity

Elsy Karelle Batantou Mampembe, Principal Engineer of Industrial Techniques | Collaborator Ministry of Agriculture, Livestock and Fisheries, General Directorate of Livestock | Veterinary Diagnostic Laboratory of Brazzaville

Congo

23 A New Opportunity to Strengthen Biosafety: Training Program for BSL-3/4 Laboratories in Hungary

Balázs Somogyi, Research Fellow | BSL-4 Laboratory Manager University of Pécs | National Laboratory of Virology Hungary





Global Voices

Celebrating Diversity in Biosafety & Biosecurity





Tanzania Biological Safety Association



Global Partnership Against the Spread of Weapons and Materials of Mass Destruction

