



ONE HEALTH CURRICULUM REVIEW WORKSHOP PROGRAM

Organised by: University of Nairobi – Department of Medical Microbiology & Immunology

Supported by: COHESA & Partners

Venue: IBIS Hotel, Westlands **Dates:** August 5, 6 & 7, 2025

WORKSHOP PROGRAM

DAY 1 - TUESDAY, AUGUST 5, 2025

Focus: Setting the Context, align on competencies, identify gaps and One Health Foundations

Time	Activity	Lead	
08:00 - 09:00	Arrival & Registration	Secretariat	
09:00 – 09:30	Opening and Welcome Remarks Introductions	Dr. Marianne Mureithi Prof. Washington Onyango-Ouma	
	Workshop Objectives	Prof. David Odongo	
09:30 – 9:45	Remarks from Partners: COHESA, ILRI vision for One Health	Dr. Florence Mutua	
09:45 – 10:15	Keynote Address: Why One Health for Postgraduate Medical Training?	Prof. Salome Bukachi	
10:15 – 10:30	Group Photo & Health Break		
10:30 – 11:30	Session 1: Overview of Current MSc Curricula and challenges (Microbiology & TID); Strengths, Challenges & Alumni Insights	Prof. Julius Oyugi Prof. Omu Anzala Alumni Panel	
11:30 – 12:00	Session 2: Advancing One Health Education – Stakeholder Needs & Public Health Gaps	Prof. Lillian Omutoko	
12:00 – 13:00	Plenary Discussion: Competency gaps Competency Gaps in One Health, AMR, Digital Health, Gender, Climate Change	Moderator: Prof. Lillian Omutoko Panel: Prof. Bukachi, Dr. Onono, Dr. Masika, Dr. Vincent Ojwang, Dr. Jane Rutto, Dr. Florence Mutua, Dr. Winnie Mutai	
13:00 – 14:00	Lunch Break		
14:00 – 14:45	Session 3: One Health Competency Framework & Global Best Practices	Dr. Joshua Onono & Dr. Tequiero Abuom	
14:45 – 16:15	Breakout Session 1: Mapping Existing Units Against One Health Competencies	Facilitators (see below)	





Time	Activity	Lead
16:15 – 16:30	Day 1 Wrap-Up, Reflection & Action Points	Rapporteur
	Tea break	
	End of Day one	

DAY 2 – WEDNESDAY, AUGUST 6, 2025

Focus: Curriculum Redesign and Infusion of One Health Elements

 $Objective: Strengthen\ content\ alignment\ with\ current\ OH\ trends, teaching\ modalities\ and$

interdisciplinary links

Time	Session	Facilitator(s)
08:30 – 08:45	Recap of Day 1 Day 2 Agenda briefing	Dr. Marianne Mureithi
08:45 – 09:15	A OH approach in the control of Emerging and Neglected Tropical diseases	Prof. Anzala
09:15 – 09:35	Q&A Session: Audience Clarifications and Key Insights	Moderator
09:30 – 10:45	Breakout Session 2: Redesign of Core & Elective Modules with One Health Integration. Curriculum audit: Course relevance and delivery, Pedagogy	Group Leads
10:45 – 11:00	Tea Break	_
11:00 – 12:30	Integration Exercise: Infusing AMR, Digital Health, Climate Change, Gender Equity, Community	Dr. Moses Masika and Dr. Hellen Mwaura
12:30 – 13:00	Group Presentations: Revised Module Concepts	Rapporteurs
13:00 – 14:00	Lunch Break	_
14:00 – 14:45	Case Studies: Global Innovations	Dr. Allan Yienya (JOOTRH), Dr. Valarie Marah (Morgan State) Dr. Najib Isse Deputy Rector for Research and Consultancy SIMAD University





Time	Session	Facilitator(s)
	PANEL DISCUSSION	
14:45 – 15:45	Research & Innovation for the Future: Driving Discovery to Impact	
	Segment 1: Cutting-Edge Science for One Health (15 min)	
	 Dr. Daniel Muema (UoN) Prof. Valerie Odero-Marah (UoN/Morgan State) Dr. Hellen Mwaura (UoN) 	
	Strengthen advanced molecular tools for disease research, Digital health/Al innovations for disease surveillance, Big data integration for One Health	
	Segment 2: Winning Grants for One Health Research (15 min)	
	 Prof. Patrick Maelo (Moi University) Dr. Moses Masika (UoN) Dr. Marianne Mureithi (UoN) Prof. Julius Oyugi (UoN) Dr. Winnie Mutai (UoN) 	
	Crafting competitive proposals, Positioning African research globally, Avoiding common funding pitfalls	
	Panel Q&A: Practical Advice for Researchers (15 min)	
5:45 – 16:00	TEA BREAK	
6:00 – 16:30	Consensus Dialogue: Cross-Institutional Harmonisation Strategy	Prof. Odongo
16:30 - 17:00	Day Wrap-Up: Draft Recommendations & Key Action Points	Workshop Committee





DAY 3 - THURSDAY, AUGUST 7, 2025

Focus: Validation, Implementation Roadmap & Commitments – finalize revisions, develop action plan and assign responsibilities

Time	Session	Facilitator(s)
08:30 – 08:45	Recap & Objectives for Day 3	Dr. Marianne Mureithi
08:45 – 10:30	Showcase of Revised Curriculum Modules Purpose: Share outputs from breakout groups and gather final input Review recommendations of Draft Revised Curriculum & Competency Matrix	Group Rapporteurs & curriculum committee
10:30 – 10:45	Tea Break	_
10:45 - 11:30	Collaborative Insights: Perspectives from Kenyan Universities on One Health	
11:30 – 12:00	Implementation/ Action Plan/ Timelines: Commitments & Roadmap Accreditation Readiness, Mentorship & Monitoring	Dr. Marianne Mureithi
12:00 -12:30	Monitoring & Mentorship Framework: How to sustain momentum	Prof. Salome Bukachi Prof. Lilian Omutoko
12:30 – 13:00	Closing Ceremony: Reflections, Certificates & Next Steps	Prof. Salome Bukachi, Dr. Marianne Mureithi
13:00 – 14:00	Lunch Break	

Group 1: Bacteriology & Mycology - AMR & Environmental Links

Facilitators: Dr. Winnie Mutai, Meshack Juma, Victor Musyoki Expected Outputs:

- Revised bacteriology modules
- AMR-focused elective outline

Group 2: Virology & Immunology - Pandemic Preparedness & Digital Surveillance

Facilitators: Prof Julius Oyugi, Dr. Moses Masika, Dr Daniel Muema, Dr. Samuel Nyamweya Expected Outputs:

- Updated virology curriculum
- Integration of bioinformatics content





Group 3: Parasitology & Vector Control - Climate Health & Vector-Borne Diseases

Facilitators: Prof. David Odongo, Dr. Mukoko Dunstan, Dr. Kariuki Njaanake Expected Outputs:

- Revised parasitology modules with climate-health links
- Framework for vector-borne disease preparedness

Group 4: One Health Core, Research & Leadership - Policy, Ethics & Gender

Facilitators: Prof. Lillian Omutoko, Prof. Salome Bukachi, Dr. George Agot, Dr. Emily Nyariki Expected Outputs:

- One Health core module framework
- Strategy for research mentorship and gender integration Participants: All partner universities, AMREF, KRCS, ILRI

Group 5: Molecular Diagnostics & Genomics - Digital Health

Facilitators: Dr. Daniel Muema, Dr. Noel Onyango, Dr. Florence Mutua, Prof Valerie Odero-Marah Expected Outputs:

- New module on Molecular Diagnostics & Genomics
- Integration of bioinformatics, sequencing, and digital health tools

Rapporteurs

Roles of Rapporteurs in the Curriculum Review Workshop

- 1. Record keeping Capture all discussions, key issues raised, and proposed solutions.
- 2. Summarising outputs Consolidate inputs from breakout sessions into clear summaries.
- 3. Daily reports Prepare a brief summary of daily outcomes for review by the organizers.
- 4. Final report Compile the full workshop report, including recommendations, revised modules, and action plans.

Main Plenary Rapporteur: Antonina Odak/Sarafina Jeptoo

Breakout Groups:

- O Group 1: Daniel Wainaina
- O Group 2: Nigel Madara
- O Group 3: Simba Yahaya
- O Group 4: Janet Kombo





Curriculum Review Philosophy and Rationale

The programs aim to produce highly skilled professionals capable of addressing infectious disease challenges using an integrated One Health approach. This ensures graduates can function effectively in academia, research, clinical practice, and policy development within human, animal, environmental and planetary health systems.

Objectives of the Workshop

- 1. Align MSc Medical Microbiology and MSc Tropical & Infectious Diseases (TID) curricula with One Health principles.
- 2. Build consensus among partner universities for cross-institutional harmonisation.
- 3. Develop updated modules, manuals, and thematic inputs that embed One Health competencies.
- 4. Produce an implementation roadmap and monitoring framework for One Health integration.

Expected Deliverables

- o Revised curriculum integrating One Health competencies.
- o One Health curriculum manual & training module draft.
- Consensus document on implementation strategy.
- o Stakeholder engagement and collaboration framework.