

WOAH Collaborative Centre Reports Activities 2023

Activities in 2023

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Centre Information

Title of WOA Collaborating Centre	Pan-African Veterinary Vaccine Centre
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Name of the writer:	Ethel Chitsungo

TOR1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOA

Category	Title of activity	Scope
Vaccines (true)	Vaccine Quality Control	The Center certified vaccines batches from 16 African manufacturers laboratories and national regulatory (Egypt-MEVAC, Morocco-MCI, Morocco BIOPHARMA, Senegal-ISRA, Nigeria-NVRI, Chad- IRED, Ethiopia-NVI, Malawi-CTTBD, Kenya-KEVEVAPI, Tanzania-TVI, Tanzania-HESTER Africa, Botswana-BVI, Eritrea-NAPHL, Zambia-AVPU, VDFACA-Ethiopia, GDSV-Burkina-Faso), and 18 manufacturers outside from Africa (Russia, Nepal, USA, India, Jordan, United Kingdom, Kazakhstan, Hungary, Turkey and Vietnam). Analysis of Vaccine Batch Certification: 2022 vs. 2023 • 2022: 332 batches tested • 2023: 276 batches certified • Decrease: 16.87% Over 40 types of vaccine have been tested, among which the most frequently tested are PPR, CBPP, capripox and Newcastle disease.

TOR3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable area
Harmonization of Standards for Registration of Veterinary Vaccines and Certification of Manufacturing Facilities in Africa	Harmonization of Standards for Registration of Veterinary Vaccines and Certification of Manufacturing Facilities in Africa and Eradication of Peste des Petits Ruminants in Africa	Laboratory expertise Training and education health management Animal production Veterinary products

3. In exercising your activities, have you identified any regulatory research needs* relevant for WOA?H?

Yes

Research need : 1

Please type the Research need: Implementation of Next Generation Sequencing (NGS) for the quality control of veterinary vaccines

Relevance for WOA?H Disease Control, Capacity Building, Other, Standard Setting, Animal Welfare, Facilitation of international collaboration,

Relevance for the Codes or Manual Code, Manual,

Field Epidemiology and Surveillance, Diagnostics, Vaccines, Therapeutics,

Animal Category Terrestrial, Aquatic,

Disease:

Kind of disease (Zoonosis, Transboundary diseases) Zoonosis, Transboundary diseases,

If any, please specify relevance for Codes or Manual, chapter and title

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

Answer:

Notes:

Answer: A pilot study was conducted for the use of Next Generation Sequencing (NGS) for the quality control of PPR Vaccine to detect bacterial and/or viral contaminations by using NextSeq 2000 Illumina Inc.. The results indicated that NGSs could be a good approach for vaccine identity and purity testing.

4. Did your Collaborating Centre maintain a network with other WOA?H Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of WOA?H CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Pirbright Institute	United Kingdom	Europe	Twinning Project for FMD vaccine quality control
Botswana vaccine Institute	Botswana	Africa	Vaccine quality control
The Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "Giuseppe Caporale, Teramo	Italy		Vaccine quality control
MCI Sante Animale	Morocco	Africa	Scientific exchange on Vaccine Quality control, Focus on combined PPR/RVF Vaccine QC
			Transfer of a quality-

CIRAD (French Agricultural Research Centre for International Development)	France	Europe	controlled Mycoplasma capricolum subsp. capricolum master seed and vaccine production technology from CIRAD to AU-PANVAC
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TOR4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOAAH Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

Name of WOAAH CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
DTRA/SANDIA	USA	Americas	Biosafety/ biosecurity shipping of infectious diseases Design of ne AU-PANVAC facility
Africa CDC	Ethiopia	Africa	Covid 19 testing One health
Sciencano Belgium Institute for health	Belgium	Europe	Collaboration on LSD quality control
CIRAD (French Agricultural Research Centre for International Development)	France	Europe	Transfer of a quality-controlled Mycoplasma capricolum subsp. capricolum master seed and vaccine production technology from CIRAD to AU-PANVAC

TOR6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOAAH?

No

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

Yes

- AU-PANVAC is committed to provide independent quality control services for veterinary vaccines and production of diagnostics for the surveillance of animal diseases in Africa.
- Harmonization of standards for the registration of veterinary vaccines and certification of vaccine manufacturing facilities in Africa,
- Support the implementation of biosafety and biosecurity to prevent accidental release or intentional misuse of pathogens.
- Advice to National and Regional Authorities (National quality control laboratories, Veterinary Services and AU/IBAR) on vaccine quality requirements and use.

Provided consultancy services and SOPs upon request from African Union Member states laboratory

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOAAH, to personnel from WOAAH Members?

Yes

a) Technical visit : 6

b) Seminars : 11

c) Hands-on training courses: 20

d) Internships (>1 month) : 7

TYPE OF TECHNICAL TRAINING PROVIDED (A, B, C OR D)	CONTENT	COUNTRY OF ORIGIN OF THE EXPERT(S) PROVIDED WITH TRAINING	NO. PARTICIPANTS FROM THE CORRESPONDING COUNTRY
A	Technical visit for the Zambian personnel to have an understanding of AU-PANVAC activities	Zambia	4
A	Follow-up visit on technology transfer to AU-PANVAC personnel on the newly developed combined PPR-RVF vaccine produced by MCI Morocco	Morocco	3
D	Internship for Masters students from PAULESI	PAULESI	7
C	Training in Blackleg and Anthrax vaccine quality control and production	Zimbabwe	2
B	Biosafety, biosecurity and shipping of dangerous goods training	Ethiopia	11
C	Vaccine quality control	Ethiopia	2
C	PPR Vaccine production quality control	Chad	2
C	Vaccine quality control	WAEMU	5
C	IBD & SGP Vaccine Production and quality control	ERITHREA	5
C	BL and Anthrax vaccines production and Quality control	Mazambique	2
C	PPR and CBPP Vaccine Quality Control	Mauritania	2

TOR8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOA?H?

Yes

NATIONAL/INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
International	25th Conference of the Regional Commission for Africa,	WOAH	2023-02-20	Gaborone Botswana	2
International	Fortifying institutional resilience against biological threats (FIRABioT) project	WOAH	2023-03-14	Nairobi, Kenya	2
International	Fifth PPR Vaccine Producers and Thermotolerant Meeting	Hester Nepal	2023-03-27	Nepal	2
International	Write-shop for the validation of the Regional Strategy for the Control of African swine fever in Africa (2023)	FAO	2023-03-27	Mombasa, Kenya	1
International	The WOA Global Conference on Emergency Management "Tackling shared threats for a safer world", face-to-face;	WOAH	2023-04-03	Paris, France	1
International	Meeting of the Regional Commission for Africa before the 90th WOA General Session : Réunion de la Commission Régionale de l'OMSA pour l'Afrique, avant la 90e Session Générale de l'OMSA	IBAR	2023-05-15	Online	2
International	90th General Session of the World Assembly of Delegates	WOAH	2023-05-21	Paris, France	2
International	the Fund for Future Climate Smart Livestock Systems Forum, 2023,	IDRC	2023-05-30	Nairobi, Kenya	1
International	The STAR-IDAZ IRC's CBPP roadmap meeting in collaboration with USDA-AR	STAR-IDAZ IRC and USDA-AR	2023-06-26	United Kingdom	1
International	Harmonization of Standards for Certification of Veterinary vaccine Manufacturing Facilities and Registration of Vaccines in Africa and Twelfth Directors Meeting	AU-PANVAC	2023-07-03	Abuja, Nigeria	7
International	the 3rd Meeting of the Standing Group of Experts on African Swine Fever-SGE ASF- for Africa,	GF-TADs for Africa	2023-08-01	Abidjan Cote D' Ivoire	1
International	All Directors Retreat	African Union	2023-10-04	Kigali, Rwanda	2
	The 66th Annual Biosafety				

International	and Biosecurity Hybrid Conference (ABSA) and virtually	ABSA	2023-10-13	Omaha, Nebraska USA	2
International	AU-IBAR annual high-level online coordination meeting	AU-IBAR	2023-11-24	Online	1
International	WOAH Twinning workshop	WOAH		Sebeta, Ethiopia	1
International	3rd meeting of the FAO-WOAH RHF Network	FAO-WOAH	2023-12-06	Paris, France	1

TOR9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOAH that may be useful to Members of WOAH

a) Articles published in peer-reviewed journals:

b) International conferences:

1

6th Annual Meeting of the PPR Global Research and Expertise Network (PPR-GREN): PPR Vaccine Quality control of thermolabile, thermotolerant and DIVA vaccines

c) National conferences:

d) Other (Provide website address or link to appropriate information):

1

<https://www.ppr-labs-oie-network.org/>

11. What have you done in the past year to advance your area of focus, e.g. updated technology?

A pilot study was conducted for the use of Next Generation Sequencing (NGS) for the quality control of Vaccine to detect bacterial and/or viral contamination.

12. Additional comments regarding your report:

Not applicable