

# WOAH Reference Laboratory Reports Activities 2025

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## LABORATORY INFORMATION

<b>*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:</b>	Contagious bovine pleuropneumonia
<b>*Address of laboratory:</b>	Via Campo Boario 64100 Teramo
<b>*Tel:</b>	+390-861 33 24 05
<b>*E-mail address:</b>	m.scacchia@izs.it
<b>Website:</b>	www.izs.it
<b>*Name (including Title) of Head of Laboratory (Responsible Official):</b>	Nicola D'Alterio
<b>*Name (including Title and Position) of WOAH Reference Expert:</b>	Massimo Scacchia WOAH expert for CBPP
<b>*Which of the following defines your laboratory? Check all that apply:</b>	Governmental

## TOR1: DIAGNOSTIC METHODS

1. Did your laboratory perform diagnostic tests for the specified disease/topic for purposes such as disease diagnosis, screening of animals for export, surveillance, etc.? (Not for quality control, proficiency testing or staff training)

Yes

Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
CFT	Yes	0	52
Direct diagnostic tests			
Mmm isolation	Yes	2	0
PCR-RFLP	Yes	5	0

## TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOAH?

Yes

Type of reagent available	Related diagnostic testing	Produced/ imported	Quantity supplied nationwide (ml, mg)	Quantity supplied at international level (ml, mg)	Name of beneficiary WOAH Member Countries

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAH Members?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOAH Member Countries	Country of recipients
CFT CBPP Antigen	CFT	Produced	0	40 ml	1	BOTSWANA,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAHA Members?

### TOR3: NEW PROCEDURES

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

No

7. Did your laboratory validate diagnostic methods according to WOAHA Standards for the designated pathogen or disease?

No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?

9. Did your laboratory validate vaccines according to WOAHA Standards for the designated pathogen or disease?

### TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOAHA Members?

Yes

Name of WOAHA Member Country seeking assistance	Date	Which diagnostic test used	No. samples received for provision of diagnostic support	No. samples received for provision of confirmatory diagnoses
NAMIBIA	2025-03-13	CFT	52	0

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAHA Member?

Yes

Name of the WOAHA Member Country receiving a technical consultancy	Purpose	How the advice was provided
KENYA	3rd Meeting of the SGE on CBPP of the GF-TADs for Africa. Many African countries.	3 presentations: "CBPP: elements of passive/abattoir surveillance", "ERFAN" and "Telediagnosis".
ITALY	Workshop on Mycoplasmosis. Verona	Presentation: "Contagious bovine pleuropneumonia: a neglected transboundary animal disease".
KENYA	Online event organised by the Italian Embassy in Kenya entitled: 'Italy-Kenya Dialogue on Veterinary Science and Livestock Production'.	'Scientific cooperation activities of the IZS Teramo in Kenya, with a focus on CBPP.'
ITALY	International FEMESPRUM Congress. Bologna	Presentation on 'CBPP'.
ITALY	Workshop organised by the Vincenti Association and the Veterinary Surgeons' Verona."	Presentation: 'Emerging diseases in the cattle sector: LSD, RVF and CBPP'.
CHINA (PEOPLE'S REP. OF)	Workshop organised for China Institute of Veterinary Drug Control, Beijing-China	Organised and delivered Workshop on CBPP. 4 hours presenting different aspects of CBPP
KENYA	WOAH Sub Regional office request: Guidelines on harmonised procedures for Ante Mortem and Post Mortem inspection as a surveillance tool for CBPP. Activity for which a contract was signed between the CBPP WOAHA Reference Laboratory in Teramo and WOAHA.	One Guidelines, 3 Annex and 4 Appendix.
KENYA	Requested by WOAHA Sub-Regional Office in Nairobi: Contagious Bovine Pleuropneumonia: Topic: Abattoir surveillance. Online training for Africa	Workshop Scientific Organisation and Presentations on CBPP Pathology, Ante- Post mortem inspection and Veterinary Remote Assistance

### TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

Massimo Scacchia - - ITALY

12. Did your laboratory participate in international scientific studies in collaboration with WOA Members other than the own?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	WOAH Member Countries involved other than your country
CBPP New Vaccine-Support in Pathological lesions Score	5 years	Innovative vaccines	ILRI-Kenya, IOWA State University-USA	KENYA UNITED STATES OF AMERICA

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

Yes

Research need : 1

**Please type the Research need:** Importance of both official and informal abattoirs for collecting data related to the identification of lesions characteristic of CBPP and to those associated with the administration of long-acting antibiotics during post-mortem inspection.

**Relevance for WOA:** Disease Control, Other, AMR in the African context,

**Relevance for the Code or Manual:** Manual,

**Field:** Epidemiology and Surveillance, Importance of both official and informal abattoirs for collecting data related to the identification of lesions characteristic of some Zoonotic diseases,

**Animal Category:** Terrestrial,

**Disease:**

**Kind of disease (Zoonosis, Transboundary diseases):** Zoonosis, Echinococcosis, Fascioliasis, Bovine Tuberculosis, Cysticercosis, Sarcocystosis, etc ,

**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:**

## TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:

Antibiotics Utilisation in CBPP control. In collaboration with Tanzanian Veterinary Laboratory Institute

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

Yes

If the answer is yes, please provide details of the data collected:

Antibiotic use in the control of CBPP in field conditions: data collected by the TVLA through 400 interviews with Tanzanian farmers

16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

2

1.Leruo Keokilwe \*, Giovanni Di Teodoro, Marta Di Federico, Massimo Ancora, Ivanka Krasteva, Gianluca Orsini, Cesare Camma, Fabrizia Perletta, Chiara Di Pancrazio,

Massimo Scacchia - - ITALY

Mirella Luciani, Chandapiwa Marobela-

Raborokgwe, Massimo Scacchia, Flavio Sacchini.

Pro-inflammatory response of bovine lung explant induced by *Mycoplasma mycoides subsp. mycoides (Mmm)*. *Pathogens*. In press.

2. Manso-Silvan L, Amanfu W, Apolloni A, Comtet L, Heller M, Muuka GM, Rafi L, Rich KM, Sacchini F, Schieck E, Totte P. Review and comprehensive analysis of knowledge, tools, and implementation gaps for the control of contagious bovine pleuropneumonia. *BMC Vet Res*. 2025 Oct 11;21(1):602. doi: 10.1186/s12917-025-04979-3. PMID: 41074020; PMCID: PMC12514796.

b) International conferences:

5

1. Kenya Online event. 3rd Meeting of the SGE on CBPP of the GF-TADs for Africa. 3 presentations: "CBPP: elements of passive/abattoir surveillance", "ERFAN" and "Telediagnosis".

2. Workshop on Mycoplasmosis. Verona.Italy

Presentation: "Contagious bovine pleuropneumonia: a neglected transboundary animal disease".

3. Kenya Online event organised by the Italian Embassy in Kenya entitled: 'Italy-Kenya Dialogue on Veterinary Science and Livestock Production'. "Scientific cooperation activities of the IZS Teramo in Kenya, with a focus on CBPP".

4. International FEMESPRUM Congress. Bologna,Italy Presentation on "CBPP".

5. Workshop organised for China Institute of Veterinary Drug Control, Beijing-China. Organised and delivered Workshop on CBPP. 4 hours presenting different aspects of CBPP.

c) National conferences:

1

1. Workshop organised by the Vincenti Association and the Veterinary Surgeons' Verona." Presentation: 'Emerging diseases in the cattle sector: LSD, RVF and CBPP'.

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

## TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOA H Members?

Yes

a) Technical visit : 0

b) Seminars : 1

c) Hands-on training courses: 0

d) Internships (>1 month) 0

Type of technical training provided (a, b, c or d)	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
B	CHINA (PEOPLE'S REP. OF)	10

## TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
UNI CEI ISO/IEC 17025:2018-ACCREDIA	PDF Certificate 2025-2027 attached.	Certificato Accreditamento 2025.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Mmm identification by PCR	ACCREDIA -Italian Body Accreditation

**Massimo Scacchia - - ITALY**

CBPP CFT

ACCREDIA -Italian Body Accreditation

20. Does your laboratory maintain a "biorisk management system" for the pathogen and the disease concerned?

Yes

At the Institute, an active and validated Biorisk Management System is in place, involving the entire organisation.

## TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAHP?

Yes

National/ International	Title of event	Co-organiser	Date	location	No. Participants
International	Contagious Bovine Pleuropneumonia: Topic: Abattoir surveillance Online training for Africa	WOAH Regional Representation for Africa	2025-12-01	Online	70
International	CBPP Workshop organised for China Institute of Veterinary Drug Control, Beijing-China	China Institute of Veterinary Drug Control,	2025-12-08	Online	10

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAHP?

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented
3rd Meeting of the SGE on CBPP of the GF-TADs for Africa	2025-05-04	Online	Speaker	3 presentations: "CBPP: elements of passive/abattoir surveillance", "ERFAN" e "Telediagnosis".
Kenya Online event organised by the Italian Embassy in Kenya entitled: 'Italy-Kenya Dialogue on Veterinary Science and Livestock Production'. "Scientific cooperation activities"	2025-07-14	Online	Speaker	"Scientific cooperation activities of the IZS Teramo-WOAH RL for CBPP in Kenya, with a focus on CBPP".
International FEMESPRUM Congress.	2025-09-03	Bologna, Italy	Speaker	CBPP

## TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAHP Reference Laboratories designated for the same pathogen or disease?

Yes

24. Are you a member of a network of WOAHP Reference Laboratories designated for the same pathogen?

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOAHP REF. LABS
CBPP	Participant	4	The 4 WOAHP Reference Labs for CBPP have ongoing contacts regarding the various activities that WOAHP Reference Laboratories are required to carry out.

25. Did you organise or participate in inter-laboratory proficiency tests with WOAHP Reference Laboratories designated for the same pathogen during the past 2 years?

No

*The WOAHP Reference Laboratory for CBPP in Teramo has always organised Ring Tests free of charge for participants. This was an ethical choice! The lack of specific funding did not allow Ring Tests to be conducted; however, they will take place in 2026 for CFT and PCR, using funding provided by WOAHP for the ERFAN network.*

26. Did your laboratory collaborate with other WOAHP Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

Massimo Scacchia - - ITALY

Yes

Title of the project or contract	Scope	Name(s) of relevant WOA Reference Laboratories
CONTRACT: Guidelines on harmonised procedures for Ante Mortem and Post Mortem inspection as a surveillance tool for Contagious Bovine Pleuropneumonia .	TO DESIGN: Guidelines on harmonised procedures for Ante Mortem and Post Mortem inspection as a surveillance tool for CBPP.	CBPP WOA RL in Botswana, France, Portugal and Italy

## TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOA Reference Laboratories for the same pathogen during the past 2 years?

No

*The WOA Reference Laboratory for CBPP in Teramo, has always organised Ring Tests free of charge for participants. This was an ethical choice! The lack of specific funding did not allow Ring Tests to be conducted; however, they will take place in 2026 for CFT and PCR using funding provided by WOA for the ERFAN network.*

## TOR12: EXPERT CONSULTANTS

28. Did your laboratory place expert consultants at the disposal of WOA?

Yes

Kind of consultancy	Location	Subject (facultative)
Member of the WOA ad hoc working group on CBPP	Paris	Activities correlated to the WOA ad hoc WG on CBPP

29. Additional comments regarding your report:

Yes

*The WOA Reference Laboratory for CBPP in Teramo has always organised Ring Tests free of charge for participants. This was an ethical choice! However, sending Ring Test materials to Africa is extremely costly. Therefore, the options are either to request financial contributions from laboratories that often already face resource constraints for their routine activities, or to wait for dedicated funding that allows Ring Tests to be conducted free of charge for African laboratories. The lack of specific funding did not allow Ring Tests to be conducted by Teramo; however, they will take place in 2026 using funding provided by WOA for the ERFAN network."*

*Furthermore, as WOA expert on CBPP, I would like to highlight the low number of disease notifications in Africa. I believe that an approach focused on the identification of characteristic lesions at slaughter or during post-mortem examinations, through the submission of lesions photos to a WOA or disease expert, could improve awareness of the presence of the disease on the African continent (Remote Veterinary Assistance).*

*Similarly, providing remote guidance and support on how to identify possible necrotic muscle lesions caused by the administration of long-acting antibiotics could be useful in understanding the magnitude of antibiotic use to control CBPP and others diseases. This could also play a role in relation to antimicrobial resistance.*