OIE Reference Laboratory Reports Activities in 2012

(the Centre has been officially recognised during OIE General Session on May 2012)

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	RABBIT MYXOMATOSIS
Address of laboratory	Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna, Via Bianchi 9. 25124 Brescia - Italy
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Name (including Title) of Head of Laboratory (Responsible Official):	Prof. Stefano Cinotti – IZSLER General Manager
Name (including Title and Position) of OIE Reference Expert:	Antonio Lavazza – DVM – Responsible Electron Microscopy Lab., Deputy Head Virology Dept.
Date of submission to the OIE	25 Jan 2013

Instructions

This form should be used by an OIE Reference Laboratory to report activities that took place from January through December of the <u>past year (2012)</u>, unless otherwise stated, and must be submitted by the end of January every year.

Only those activities that concern the disease (or topic) for which the laboratory is recognised by the OIE should be mentioned. The questionnaire structure follows the Terms of Reference (ToRs) for OIE Reference Laboratories, available at:

http://www.oie.int/en/our-scientific-expertise/reference-laboratories/introduction/

Each ToR (blue italicised text) has been placed as a heading covering the group of questions related to it.

Please note the red italicised text is given as guidance and should be deleted from your report and substitute with your data. Examples are based on past Annual Reports or have been invented.

The questionnaire represents a means of gathering information on activities carried out by OIE Reference Laboratories and making it available to OIE Member Countries and to the OIE Reference Laboratory network.

This annual report will remain available for consultation on the OIE web site: (http://www.oie.int/en/our-scientific-expertise/reference-laboratories/annual-reports/):

ToR: To use, promote and disseminate diagnostic methods validated according to OIE Standards

Test recommended by the OIE	Total number of test p	performed last year
Indirect diagnostic tests	Nationally	Internationally
c-ELISA	774	0
Direct diagnostic tests	Nationally	Internationally
Negative staining EM	44	2
Cell culture isolation	2	1
ELISA	0	0
Immunofluorescence	0	0
Immunoperoxidase	0	1
RT-PCR	93	1
Genomic sequencing	6	1

ToR: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards.

To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.

2.	Did your laboratory produce or store importhe OIE or other international bodies?	rted standard reference reagents officially recognised by
	Yes	⊠ No
3.	Did your laboratory supply standard reference	ce reagents to OIE Member Countries?
	∑ Yes	□ No

Type of reagent available	Related diagnostic test	Produced/ stored	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	Name of recipient OIE Member Countries and of institutions
Serological kit	c-ELISA	Produced	N° 2 kit (total 660 tests with 4 dilutions)		Italy, IIZZSS network

4.	Did your laboreagents?	oratory produce diagnosti	c reagents	s other than the OIE-approv	ed standard reference	
				☐ No		
5.	Did your labo	ratory produce vaccines?				
		Yes		⊠ No		
6.	Did your labo	ratory supply vaccines to	OIE Memb	er Countries?		
		Yes		⊠ No		
Va	ccine name	Amount supplied nation mg) (including for ow		Amount supplied to other countries (ml, mg)	Name of recipient OIE Member Countries	
<i>ToR:</i> 7.	diagnosis and	nd control of the desig	nated pa	ording to OIE Standards, athogens or diseases thods validated according to		
	acoignates pe	Yes		☐ No		
8.		oratory develop new vacci	nes accord	ding to OIE Standards for the	e designated pathogen	
	or disease?	⊠ Yes		□No		
		ew test or diagnostic raccine developed	Description and References (Publication, website, etc.)			
R'		cting vaccinal and wild strains	See List of publications a1) & b2)			
	Ab dete	ection cELISA	LAVAZZA A., GRAZIANI M., TRANQUILLO V. M., BOTTI G., PALOTTA C., CERIOLI M., CAPUCCI L. (2004) Serological evaluation of the immunity induced in commercial rabbits by vaccination for Myxomatosis and RHD. Proceeding of the 8th Congress of World Veterinary Rabbit Association (WRSA), Puebla, Mexixo. 7-11 September 2004. pp. 569-575.			
ToR:	•			and, where approprions res to OIE Member Count		
9.	Did your labo	ratory carry out diagnosti	c testing fo	or other OIE Member Countri	es?	
				☐ No		

Name of OIE Member Country seeking assistance	Date (dd/mm)	No. samples received for provision of diagnostic support (i.e. from surveillance campaign)	No. samples received for provision of confirmatory diagnoses
Chile	15 June		1

10.	Did your lak Member Cou		expert advice in techr	nical consultancies	on the request of an OIE
		⊠ Yes		No	
		Nember Country cal consultancy	Purpos	se	How the advice was provided
	Unidad de ' Ministerio de CHII	Agricultura	Laboratory approa		Remote assistance
Vet	erinary Univer ROMA	sity of Bucarest NIA	Characterization of vaccinal st	-	PhD fellowship (6mo)
ToR:	•	•	dinate scientific and s or organisations	technical studie	es in collaboration with
11.	-	oratory participat her than the own?		tific studies in colla	boration with OIE Member
				No	
Title	of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
	none	not defined	Use of Monoclonal Antibodies by using ELISA and Histological methods for the characterization of Myxomavirus strains	University of Florida	USA
ToR:		process, analys ated pathogens		minate epizootio	logical data relevant to
12.	Did your Lab	oratory collect ep	izootiological data relev	ant to internationa	l disease control?
				☐ No	
13.	Did your labo	oratory dissemina	te epizootiological data	that had been proc	essed and analysed?
		∑ Yes		☐ No	
14.	What metho	d of dissemination	n of information is most	often used by your	laboratory?

(Indicate in the appropriate box the number by category)

	a)	Articles published in peer-r	eviewed journals:1
	b)	International conferences:	3
	c)	National conferences:	<u>1</u>
	d)	Other:	1
List	of pub	olications	
a1)			LAVAZZA A., CAPUCCI L. (2010). Molecular characterization of SG:
b1)	LAVAZ (2011) pathog Confer	ZA A, CHIARI M, CAVADINI P Surveillance program on the gens and definition of its nature ence on Wildlife: animal hea	yxomatosis. Vaccine 28 (33), 5414-5420. GIOIA E, BARBIERI I, GRILLI G, FERRAZZI V, ZANONI M, CAPUCCI ne eastern cottontail (Sylvilagus floridanus) as reservoir of har iral susceptibility to the European Brown Hare Syndrome OIE Globalth and biodiversity: preparing for the future: Paris, France 23-25. S. World Organisation for Animal Health (OIE), p 67.
b2)	CAVAD and B	OINI P., BOTTI G., BARBIERI I., orghi vaccines used agains	LAVAZZA A:, CAPUCCI L. (2010). Molecular characterization of SG: t Myxomatosis. 1st biennial congress European Association (s (EAVLD), Lelystad, The Netherlands, 15 - 17 September 2010.
b3)	CHIARI progra	M., BIANCHI A., SALA G., Zom of selected zoonotic disea	ANONI M.G., LAVAZZA A., GAFFURI A The harmonized monitoring ses of wildlife in Lombardy, northern Italy. Proceedings joint 61 ce "Convergence in wildlife health". Lyon 23-27 July 2012. P.116
c1)	CAPUC	CCI L., CAVADINI P., BOTTI G., outo del laboratorio diagnost	BRIVIO R., GRILLI G., LAVAZZA A. (2011) Myxomatosi del coniglio: ico alla gestione e controllo della malattia sul territorio. Atti del , Fiera di Forlì, 8-9 aprile 2011, pp.127-129.
d1)	Veterir allevar Tecnol	nary Faculty - Thesis Disserati nento commerciale di conig	on "Approccio diagnostico integrato finalizzato al risanamento di u li infetto da Myxomatosi" Tesi del Corso di Laurea In Scienze i, Università degli Studi di Milano Facoltà di Medicina Veterinaria
ToR	: Тор	rovide scientific and tech	nnical training for personnel from OIE Member Countries
	To r	ecommend the prescribe	d and alternative tests or vaccines as OIE Standards
15.	-	our laboratory provide scier hber Countries?	ntific and technical training to laboratory personnel from other O
		∑ Yes	□ No
		e answer is yes, please prov gories:	ide the total number of trained persons for each of the following
	a)	Technical visits:	
	b)	Seminars:	
	c)	Hands-on training courses:	

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
d	Romania	1

d)

ToR:			system of the disea			rance, bios	safety and bio	osecurity rel	levant for the
16.	Does your Standard?		ratory have	e a Quality	Mana Mana	gement Sys	stem certified a	ccording to a	n International
			⊠ Yes				☐ No		
				Quality m	anagei	ment system	n adopted		
					ISC	D 17025			
17.	Is your lab	orato	ry accredite	d by an in	ternati	onal accredi	tation body?		
			∑ Yes				☐ No		
Т	Test for which your laboratory is accredited				Accredi	tation body			
A	Antigen detection - Immunohistochemistry				ACCREDIA (n	n.148) ILAC-MI	RA		
	Antibody (detecti	on – compe	etition ELIS	A		ACCREDIA (n.148) ILAC-MRA		
	Antigen d	etectic	n electron-	microscop	У		ACCREDIA (n.148) ILAC-MRA		
		I	RT-PCR				ACCREDIA (n.148) ILAC-MRA		
(concerned?	(See A	Janual of D	iagnostic ī	Tests aı	_	system" for the for Terrestrial A		
							□No		
ToR:	To organ	nise aı	nd partici _l	pate in so	cientif	ic meeting	s on behalf of	the OIE	
19.	Did your la	aborat	ory organis	e scientific	meeti	ngs on beha	olf of the OIE?		
			Yes				⊠ No		
	ational/ rnational		Title of ev	ent	Co-	organiser	Date (mm/yy)	Location	No. Participants
20.	Did your la	aborat	ory particip	oate in scie	ntific n	neetings on	behalf of the OI	E?	
			⊠ Yes				□No		
	Title of eve	nt	Date	Locati	on	Role (spea	aker, presenting	Title o	of the work

(mm/yy)

presented

poster, short

			communications)	
4th World Lagomorph Conference	23-27, July 2012	Vienna, Austria	Participant	-
61st WDA /10th Biennal EWDA Conference	23-27 July 2012	Lyon, France	Poster presentation	See b3) in list of publications

ToR: To establish and maintain a network with other OIE Reference Laboratories designated for the same nathogen or disease and organise regular inter-laboratory

	proficiency testing to			yamse regula	iii iiitei laboratory
21.	Did your laboratory exch same pathogen or diseas	_	ation with other OIE Refere	ence Laboratori	es designated for the
	Y	es		No	
	Not appl	icable (this i	s the sole OIE laboratory for	RHD existing)	
22.			ntaining a network with OII organising or participating i		_
	☐ Y	es		No	
	Not appl	icable (this i	s the sole OIE laboratory for	RHD existing)	
Purpose of the proficiency tests: (validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.)			Role of your Reference Laboratory (organiser/ participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
23.	5				
	•		other OIE Reference Labored diagnosis or control of the		
	on scientific research pro				
	on scientific research pro	jects for the		pathogen of int	
Title	on scientific research pro	jects for the	diagnosis or control of the	No RHD existing Name(:	
Title	on scientific research pro	jects for the	e diagnosis or control of the	No RHD existing Name(:	s) of relevant OIE

ToR: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results.

24. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?			
∑ Yes			
Purpose for inter-laboratory test comparisons ¹		No. participating laboratories	Participating OIE Member Countries
EM detection and identification of viral particles		103	29 countries
ToR: To place expert consultants at the disposal of the OIE 25. Did your laboratory place expert consultants at the disposal of the OIE?			
Yes		⊠ No	
Kind of consultancy		Location	Subject (facultative)

See Interlaboratory test comparisons in: Laboratory Proficiency Testing at: www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing-see-point-1.3