

OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-01-28 19:52:42

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Infection with Taura syndrome virus
Address of laboratory:	1117 E. Lowell Street, Bldg 90 Room 114, Tucson, AZ 85721 UNITED STATES OF AMERICA
Tel.:	+1-520 621 87.27
Fax:	+1-520 626.56.02
E-mail address:	adhar@email.arizona.edu
Website:	Aquapath.lab.arizona.edu
Name (including Title) of Head of Laboratory (Responsible Official):	Arun K. Dhar Associate Professor & Director Aquaculture Pathology Laboratory
Name (including Title and Position) of OIE Reference Expert:	Arun K. Dhar Associate Professor & Director Aquaculture Pathology Laboratory
Which of the following defines your laboratory? Check all that apply:	Academic

ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards

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 OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
0	0	0	0
Direct diagnostic tests			
Conventional & Real-Time PCR	Yes	546	171
Histology	Yes	20	1

**ToR 2: 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 supply imported standard reference reagents officially recognised by the OIE?

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
Positive Control Tissue	PCR	Produced	Approximately 1000-3000mg	Approximately 1000-3000mg	4	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East
Tissue Sections	Histology	Produced	1	0	1	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

Yes

Name of OIE Member Country seeking assistance	Date (month)	No. samples received for provision of diagnostic support	No. samples received for provision of confirmatory diagnoses
BELGIUM	Varied	4	0
CANADA	varied	9	0
CHILE	varied	1	0
CHINA (PEOPLE'S REP. OF)	varied	2	0
CZECH REPUBLIC	varied	1	0
ECUADOR	varied	7	0
FRANCE	varied	7	0
GERMANY	varied	1	0
HONDURAS	varied	64	0
INDONESIA	varied	1	0
ISRAEL	varied	2	0
JAPAN	varied	2	0
MADAGASCAR	varied	7	0
RUSSIA	varied	18	0
SINGAPORE	varied	1	0
THAILAND	varied	33	0
THE NETHERLANDS	varied	11	0

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
SAUDI ARABIA	Conducting training on Shrimp Disease Diagnostics for OIE Twinning Project between Jeddah Fish Health Safety Laboratory, Saudi Arabia and The University of Arizona, USA	Visited Saudi Arabia, attended conference, gave lectures and hands on training

ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
OIE-Twinning Program	2018-2020	To improve the candidate laboratory compliance with OIE diagnostic standard for crustacean disease/ shrimp disease	Kingdom of Saudi Arabia	SAUDI ARABIA
OIE-Twinning Program	2015-2018	To improve the candidate laboratory compliance with OIE diagnostic standard for crustacean disease/ shrimp disease	Indonesia	INDONESIA
Training on shrimp disease diagnostics	2020	To improve the candidate laboratory disease diagnostic capability	West Bengal	INDIA
Workshop on theoretical and practical aspects on shrimp diseases	2020	Conducting a workshop on theoretical and practical aspect on shrimp diseases diagnosis and management	World Aquaculture Society (WAS)	COSTA RICA

ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases

11. Did your Laboratory collect epizootiological data relevant to international disease control?

No

If the answer is no, please provide a brief explanation of the situation:
N/A

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

No

If the answer is no, please provide a brief explanation of the situation:

N/A

**13. What method of dissemination of information is most often used by your laboratory?
(Indicate in the appropriate box the number by category)**

a) Articles published in peer-reviewed journals: 01

Ochoa, L. M., Cruz-Flores, R., and Dhar, Arun K. 2020. Detection and phylogenetic analyses of Taura syndrome virus from archived Davidson´s-fixed paraffin embedded shrimp tissue. *Viruses*, 12, 1030.

b) International conferences: 01

Lauren Ochoa, Arun Dhar, Roberto Cruz Flores. 2020. DETECTION AND GENOME RECONSTRUCTION OF TAURA SYNDROME VIRUS OF SHRIMP FROM DAVIDSON'S FIXED PARAFFIN EMBEDDED SHRIMP TISSUE. *Aquaculture America, WAS Conference, Hawaii, Feb 10-12, 2020.*

c) National conferences: 01

Arun K. Dhar. 2020. "Diseases & Disease Management in Shrimp Aquaculture", National Fisheries School, Washington DC, Nov 16-20, 2020.

d) Other:

(Provide website address or link to appropriate information) 0

ToR 7: To provide scientific and technical training for personnel from OIE Member Countries

To recommend the prescribed and alternative tests or vaccines as OIE Standards

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

Yes

a) Technical visits: 01

b) Seminars: 03

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
a	India	15
b	Mexico	100
b	Peru	20
b	Mexico	30

ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO 17025:2017	UofAZ17025CertScopeV005 Exp dec 2022.pdf
ISO 17043:2010	APL ISO 17043.2010 Proficiency Certificate Exp Dec2022.pdf
USDA	APL USDA live crustaceans and samples permit Exp Mar2021.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Histology	ANSI-ASQ National Accreditation Board
PCR	ANSI-ASQ National Accreditation Board

17. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?

No

(See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4)

ToR 9: To organise and participate in scientific meetings on behalf of the OIE

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

No

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results

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

No

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

No

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

No

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

Yes

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

Purpose for inter-laboratory test comparisons ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
Proficiency test- Feb, 2020	26	<input checked="" type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Proficiency test- Aug, 2020	28	<input checked="" type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Proficiency test- Histology	01	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East

ToR 12: To place expert consultants at the disposal of the OIE

24. Did your laboratory place expert consultants at the disposal of the OIE?

No

25. Additional comments regarding your report:

None