WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 7 mai 2024 18:58

Laboratory Information

Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	NHP		
Address of laboratory:	1117 E. Lowell St. Bldg 90, Room 114, Tucson AZ, 85721		
Tel.:	+1-520 621 87.27		
E-mail address:	adhar@arizona.edu		
Website:	https://aquapath.cales.arizona.edu/		
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Arun K. Dhar		
Name (including Title and Position) of WOAH Reference Expert:	Arun K. Dhar, Professor & Director, Aquaculture Pathology Laboratory		
Which of the following defines your laboratory? Check all that apply:	Academic institution		

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)

Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
0		0	0
Direct diagnostic tests		Nationally	Internationally
PCR / Real-time PCR		1345	330
Histology		80	25

TOR2: REFERENCE MATERIAL

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

No

Yes

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
Positive Control	PCR	Produced	200 mg	400 mg	8	CHILE, ECUADOR, INDIA, KOREA (REP. OF), MEXICO, SINGAPORE, UNITED STATES OF AMERICA,

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						VIETNAM,
Plasmid DNA	PCR	Produced	1-5 ng	8-40 ng	3	ECUADOR, SINGAPORE, VIETNAM,
PCR 10 [^] 8 Standards	PCR	Produced	na	na	1	UNITED STATES OF AMERICA,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAH Members?

No

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 WOAH Standards for the designated pathogen or disease?

No

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

No

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

Yes

NAME OF WOAH 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
BELGIUM	2023-12-20	NHP	17	0
BRAZIL	2023-12-20	NHP	3	0
DENMARK	2023-12-20	NHP	2	0
ECUADOR	2023-12-20	NHP	9	0
FRANCE	2023-12-20	NHP	10	0
INDIA	2023-12-20	NHP	9	0
INDONESIA	2023-12-20	NHP	13	0
ISRAEL	2023-12-20	NHP	6	0
JAPAN	2023-12-20	NHP	3	0
MEXICO	2023-12-20	NHP	19	0
THE NETHERLANDS	2023-12-20	NHP	12	0
NORWAY	2023-12-20	NHP	3	0
OMAN	2023-12-20	NHP	22	0
RUSSIA	2023-12-20	NHP	36	0
SINGAPORE	2023-12-20	NHP	1	0
SPAIN	2023-12-20	NHP	2	0
THAILAND	2023-12-20	NHP	162	0
UNITED KINGDOM	2023-12-20	NHP	1	0
UNITED STATES OF AMERICA	2023-12-20	NHP	1345	0

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

Yes

NAME OF THE WOAH MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
		Two visiting scientists from ICA, Bogota, Colombia attended a training
COLOMBIA	OIE Twinning project focused on fish	in the Aquaculture Pathology

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and shrimp viral diseases.

Laboratory (APL), University of Arizona.

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own? No

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

No

TOR6: EPIZOOLOGICAL DATA

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

No

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

No

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. Dhar, Arun K., Mai, Hung N., Cruz-Florez, Roberto and Warg, J. 2023. Comparison of Polymerase Chain Reaction (PCR) assay performance in detecting Decapod penstylhamaparvovirus 1 in penaeid shrimp. J. Virol. Methods, 323: 114840.

2. Lee, Y., Vijayan, J., Roh, H. J., Park, J., Lee, J-Y., Luan, N. T., Kim, H. J., Kim, W-S., Dhar, Arun K., Park, C-I., and Kim, D-H. 2023. Nucleic acid-based methods for diagnosis of shrimp viral diseases. Rev Aquac. 2023;1–31, DOI: 10.1111/raq.12873

b) International conferences:

2

 Arun K. Dhar, Roberto Cruz-Flores, Hung N. Mai, and Janet V. Warg. 2023. COMPARISON OF REAL-TIME PCR ASSAY PERFORMANCE FOR DETECTING Decapod penstylhamaparvovirus 1 IN PENAEID SHRIMP. Aquaculture America 2023 Conference, World Aquaculture Society, February 23-26, 2023, New Orleans, Louisiana.
Janet V. Warg, Hung N. Mai, Paul Schofield, Richard D. Clayton, and Arun K. Dhar. 2023. VALIDATION OF A REAL-TIME PCR ASSAY IN DETECTING INFECTIOUS HYPODERMAL AND HEMATOPOIETIC NECROSIS VIRUS (IHHNV) IN PENAEID SHRIMP, Aquaculture America 2023 Conference, World Aquaculture Society, February 23-26, 2023, New Orleans, Louisiana.

c) National conferences:

0

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

2

1. Dhar, Arun K. 2023. "Major Diseases & Disease Management in Shrimp Aquaculture", College of Veterinary Medicine, Mississippi State University, Starkville, MS., November 10. 2023.

2. Dhar, Arun K. 2023. "Diseases & Disease Management in Shrimp Aquaculture", Bandung Institute of Technology (Intitut Teknologi Badung), Jawa Barat, Indonesia, November 01, 2023.

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit : 0

b) Seminars : 0

c) Hands-on training courses: 3

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
С	COLOMBIA	2
С	ECUADOR	1
С	MEXICO	2
С	INDIA	7
С	UNITED STATES OF AMERICA	5
С	VIETNAM	3
С	VENEZUELA	1

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO 17025	PDF	UAZAPL 17025 Scope 2024.pdf
ISO 17043	PDF	UAZAPL 17043 Scope 2024.pdf
USDA	PDF	UAZ_567.2_October 2023 approval letter.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Histology for all the OIE-listed pathogens	ANSI-ASQ National Accreditation Board
PCR for all the OIE-listed pathogens	ANSI-ASQ National Accreditation Board

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

No

TOR9: SCIENTIFIC MEETINGS

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

No

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

No

TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease? No

24. Do you network (collaborate or share information) with other WOAH Reference Laboratories designated for the same pathogen?

Not applicable (Only WOAH Reference Laboratory designated for the disease)

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen?

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

No

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

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

Arun Dhar - Necrotising hepatopancreatitis (infection with Hepatobacter penaei) - UNITED_STATES_OF_AMERICA

Yes					
Purpose for inter-laboratory test comparisons1	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the Test	WOAH Member Countries	
Proficiency Test in shrimp pathogens detection by PCR - Ring Test February 2023	Organiser	31	Ring Test	BRAZIL, ECUADOR, GUATEMALA, INDIA, ITALY, MALAYSIA, MEXICO, NICARAGUA, OMAN, PERU, SAUDI ARABIA, THAILAND, VIETNAM,	
Proficiency Test in shrimp pathogens detection by PCR - Ring Test August 2023	Organiser	31	Ring Test	AUSTRALIA, CANADA, COLOMBIA, ECUADOR, HONDURAS, INDIA, INDONESIA, KOREA (REP. OF), MADAGASCAR, MALAYSIA, MEXICO, OMAN, PANAMA, PERU, SINGAPORE, THAILAND, UNITED STATES OF AMERICA, VIETNAM,	

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No