

WOAH Reference Laboratory Reports Activities 2025

This report has been submitted: 29 janvier 2026 12:40

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Avian influenza
*Address of laboratory:	5 Portarlington Road, East Geelong, Victoria 3219 Australia
*Tel:	+61-3 52 27 50 00
*E-mail address:	frank.wong@csiro.au
Website:	https://www.csiro.au/en/about/facilities-collections/acdp
*Name (including Title) of Head of Laboratory (Responsible Official):	Debbie Eagles, Director, Australian Centre of Disease Preparedness
*Name (including Title and Position) of WOAH Reference Expert:	Frank Wong, Senior Research Scientist, Australian Centre of Disease Preparedness
*Which of the following defines your laboratory? Check all that apply:	Governmental Research agency

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			
cELISA	Yes	717	605
Haemagglutinin Inhibition (HI) Test	Yes	16	2
Direct diagnostic tests			
Real-time PCR	Yes	2341	507
Virus Isolation	Yes	181	0
PCR/Sequencing	Yes	28	4
Immunohistochemistry	No	3	0
Haemagglutinin Inhibition (HI) Typing	Yes	16	0
Next generation sequencing	Yes	168	10

TOR2: REFERENCE MATERIAL

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

No

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

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Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient WOAHO Member Countries	Country of recipients
Live Avian Influenza Virus (Antigen)	PCR and diagnostic assay development	Produced & Provided	2 ML	2 ML	3	AUSTRALIA, AUSTRIA, GERMANY,
Inactivated Avian Influenza Virus (Antigen)	PCR and diagnostic assay development	Produced & Provided	10 ML	0	1	AUSTRALIA,
Avian Influenza National Quality Control	PCR	Produced & Provided	15 ML	0	1	AUSTRALIA,
Avian Influenza National Quality Control	ELISA	Produced & Provided	10 ML	0	1	AUSTRALIA,
Avian Influenza Antigen	ELISA	Produced & Provided	6 ML	0	1	AUSTRALIA,
Avian Influenza Antiserum	ELISA	Produced & Provided	10.2 ML	0	1	AUSTRALIA,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAHO 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 WOAHO 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 WOAHO Standards for the designated pathogen or disease?

TOR4: DIAGNOSTIC TESTING FACILITIES

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

Yes

Name of WOAHO 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
CAMBODIA	2025-12-31	Real time PCR, Next Generation Sequencing	0	29
PAPUA NEW GUINEA	2025-11-30	cELISA	38	0
TIMOR-LESTE	2025-10-31	Real time PCR, cELISA	243	0
UNITED STATES OF AMERICA	2025-07-31	Real time PCR, cELISA, Next Generation Sequencing	87	0
VANUATU	2025-07-31	Real time PCR, cELISA	86	0
SOLOMON (ISLANDS)	2025-03-31	Real time PCR, cELISA, HI Test	401	0
SOLOMON (ISLANDS)	2025-12-31	Real time PCR, cELISA	120	0
NEW CALEDONIA	2025-02-28	Real time PCR, Next Generation Sequencing	0	3

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

Yes

Name of the WOAHO Member Country receiving a technical consultancy	Purpose	How the advice was provided
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AUSTRALIA	Provision of expert advice to federal and state government departments/ OCVOs on avian influenza diagnostic testing, outbreak response, and surveillance	Remotely by teleconferences, workshops, email communications, and in loco meetings
CAMBODIA	Provision of expert and technical advice to the national government National Animal Health and Production Research Institute (NAHPRI) at General Directorate of Animal Health and Production (GDAHP), Phnom Penh on HPAI and EID diagnostics and surveillance	Remotely by teleconferences, workshops, email communications, and in loco meetings, including activities under the DFAT-ACDP Wildlife Interface Viromic Regional EID Surveillance (WIVIREIDS) Project
INDONESIA	Provision of expert and technical advice, and support to build diagnostic capacities at the Directorate-General Livestock and Animal Health Services of Indonesia's Disease Investigation Centres (DICs), including DIC Wates in Yogyakarta to serve as the national reference Laboratory for Avian Influenza, and the ASEAN Regional Reference Centre for Bioinformatics	In loco training and workshops; remotely by teleconferences and other virtual communications, including activities under the DFAT-ACDP Bilateral Laboratory Collaboration (BICOLLAB), WOAHP Laboratory Twinning, and Wildlife Interface Viromic Regional EID Surveillance (WIVIREIDS) Projects
LAOS	Provision of expert and technical advice, and support to build diagnostic capacities for viral EID diagnostics and surveillance including avian influenza, in collaboration with Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), the National Animal Health Laboratory (NAHL) of the Lao Department of Livestock and Fisheries, Ministry of Agriculture and Forestry	In loco training and workshops; remotely by teleconferences and other virtual communications, including activities under the DFAT-ACDP Wildlife Interface Viromic Regional EID Surveillance (WIVIREIDS) Project
NEW CALEDONIA	Provision of expert and technical advice to the national government Laboratoire de Nouvelle Calédonie at DAVAR and the OCVO on avian influenza diagnostic and quarantine testing, and avian influenza surveillance	Remotely by teleconferences, workshops, email communications, and in loco meetings, including activities under the DFAT-ACDP Pacific Networked Diagnostics and Support (PaNDAS) Project
PAPUA NEW GUINEA	Provision of support to build diagnostic capacities at the PNG National Agriculture & Quarantine Inspection Authority (NAQIA) laboratory, to quality assurance and ISO17025 laboratory standards	In loco training and workshops; remotely by teleconferences and other virtual communications, including activities under the Australian Government DAFF Laboratory Capacity Building (LabCap) and DFAT-ACDP Pacific Networked Diagnostics and Support (PaNDAS) Projects
PHILIPPINES	Provision of expert advice to Philippines Bureau of Animal Industry, Department of Agriculture on and support to build diagnostic capacities for viral EID diagnostics and surveillance, avian influenza diagnostic testing and investigations of HPAI outbreaks	In loco training and workshops; remotely by teleconferences and other virtual communication, including activities under the DFAT-ACDP Wildlife Interface Viromic Regional EID Surveillance (WIVIREIDS) Project
KOREA (REP. OF)	Contributed and presented expert and technical advice at the 2025 International Avian Influenza Symposium hosted by the Animal and Plant Quarantine Agency (APQA) South Korea, on 13-16 July 2025	In loco APQA lab visit, oral presentations and panel discussions
	Provision of expert and technical advice, and diagnostic support to the Animal	Remotely by teleconferences, workshops, email communications, and

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VANUATU	Health and Veterinary Services of the Department of Biosecurity Vanuatu on emergency animal health disease diagnostics, including avian influenza surveillance	in loco meetings, including activities under the DFAT-ACDP Pacific Networked Diagnostics and Support (PaNDAS) Project
VIETNAM	Provision of support via laboratory strengthening with the Regional Animal Health Office No. 6 (RAHO 6) in Ho Chi Minh City and the National Centre for Veterinary Diagnosis Hanoi, to build animal health diagnostic and reference centre capacities to quality assurance and ISO17025 laboratory standards; and to develop molecular and diagnostic NGS sequencing capabilities for avian influenza and other transboundary viral diseases	In loco training and workshops; remotely by teleconferences and other virtual communication, including activities under the DFAT-ACDP Asia-Pacific Placements and Laboratory Leadership (APLLe) Projects

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAHP 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
OFFLU contributions on Zoonotic Influenza to the WHO Influenza Vaccine Composition Meetings (VCM)	1 year (ongoing)	ACDP produces and shares epidemiological, antigenic (Haemagglutination Inhibition) and genetic virus surveillance data from avian influenza A(H5), A(H7) and A(H9) viruses with OFFLU and to the WHO-GISRS pre pandemic influenza Vaccine Composition Meeting (VCM) Consultations.	WOAH Reference Laboratories and FAO Reference Centres for Avian Influenza that contribute to the OFFLU network, and contributing member countries	CAMBODIA ITALY NEPAL PHILIPPINES UNITED KINGDOM UNITED STATES OF AMERICA
OFFLU Avian Influenza Matching (AIM) project	1 year (ongoing)	ACDP receives H5 HPAI test viruses to produce and share epidemiological, genetic and antigenic (Haemagglutination Inhibition) data for the OFFLU AIM H5 HPAI antigenic surveillance to poultry vaccines	WOAH Reference Laboratories for Avian Influenza in Australia (ACDP), Italy (IZSve), United Kingdom (APHA)	CAMBODIA ITALY NEPAL PHILIPPINES UNITED KINGDOM UNITED STATES OF AMERICA
Wildlife Interface Viromic Regional EID Surveillance (WIVIREIDS) project in Southeast Asia supported by Australian Government Department of Foreign Affairs and Trade (DFAT) Partnerships for a Healthy Region (PHR) Program.	2022-2027	Building and supporting field and laboratory capacities with Southeast Asian members for viromic and genomic EID surveillance at the wildlife interface, including live animal markets and wild birds	Australian Government DFAT Partnerships for a Healthy Region Program, National Animal Health and Production Research Institute (NAHPRI) Cambodia, the National Research and Innovation Agency (BRIN) Indonesia, Lao Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU) Laos Bureau of Animal Industry Department of Agriculture Philippines, and FAO-ECTAD Indonesia	CAMBODIA INDONESIA LAOS PHILIPPINES

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

No

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:

Avian influenza surveillance and epidemiological data, including whole virus genome sequences, phylogenetic, serologic and antigenic characterization data. Data from animal pathogenicity and immunological research in hosts. Data and guidance information on validation and quality assurance testing of diagnostic tests for animal influenza. See also Q10 and Q12 for further details.

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:

Avian influenza surveillance and epidemiological data, including whole virus genome sequences, phylogenetic and antigenic characterization data to OFFLU and submitting member countries. Data from animal disease research in hosts and pathogen to OFFLU and submitting member countries. Data and guidance information on validation and quality assurance testing of diagnostic tests for animal influenza to submitting member countries. See Q10 for submitting members that have received diagnostic reports, Q12 for international research programs receiving epidemiological data and Q16 for titles of publications, web-based guidance documents and reports, and conference proceedings.

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:

3

- (1) Deearin, Joshua M.; Davis, Samantha K.; Mahar, Jackie E. Twelfth scientific biennial meeting of the Australasian Virology Society: AVS12 2024. *Journal of Virology*. 2025. 14p; <http://hdl.handle.net/102.100.100/706203?index=1>
- (2) Jenkins, Kristie; Layton, Daniel; Gough, Tamara; O'Neil, Terri; Malaver Otega, Luis; Mishra, Ketan; et al. Production of immune receptor knockout chickens via direct in vivo transfection of primordial germ cells. *Animal Biotechnology*. 2025; 36(1):1-12.
- (3) Mananggit, Milagros R; Ongtangco, Joely T; Baccay, Xandre D; Domingo, Ronnie; Miranda, Mary E; Gundran, Romeo; et al. Detection and characterization of novel respiratory viruses among native ducks (*Anas luzonica*) in Central Luzon, the Philippines. *Western Pacific Surveillance and Response (WPSAR)*. 2025; 16(2):6p; <https://doi.org/10.5365/wpsar.2025.16.2.1124>.

b) International conferences:

15

1. Wong, Frank. HPAI laboratory activity and research updates – Australia and Oceania. In: *Regional Workshop in Avian Disease Prevention and Control in Asia and the Pacific 2025*; 26-28Aug 2025; World Organisation for Animal Health (WOAH) Regional Representation in Asia and the Pacific, Sapporo, Japan. Oral presentation and Panel discussions.
2. Wong, Frank. Update on OFFLU avian influenza technical activities. In: *Regional Workshop in Avian Disease Prevention and Control in Asia and the Pacific 2025*; 26-28Aug 2025; World Organisation for Animal Health (WOAH) Regional Representation in Asia and the Pacific, Sapporo, Japan. Oral presentation and Panel discussions.
3. Layton, Rachel; Beggs, David; Mansell, Peter; Fisher, Andrew; Layton, Daniel; Riddell, Sarah; et al. Conscious and voluntary sample collection from laboratory pigs at high biocontainment. In: *International Society for Applied Ethology*; 04-08 Aug 2025; Utrecht, The Netherlands. *International Society for Applied Ethology*; 2025. Oral presentation.
4. Wong, Frank. Regional Overview – Global Epidemiology of HPAI; In: *International Avian Influenza Symposium*, 15 Jul 2025; APQA, Gimcheon, South Korea. Oral presentation and Panel discussions.
5. Wong, Frank. Update on OFFLU Avian Influenza Technical Activities; In: *International Avian Influenza Symposium*, 15 Jul 2025; APQA, Gimcheon, South Korea. Oral presentations and Panel discussions.
6. Breed, A; Doyle, E; Driver, K; Eden, P; Glass, E; Salmon, S and Wong F. HPAI H7 outbreaks in Australia in 2024. In: *11th International Symposium on Avian Influenza*, 24-26 Jun 2025, St. John's, Newfoundland and Labrador, Canada. Oral presentation.
7. Wong, Frank; Weerasinghe, G; Breed, A; Butler, J and Neave, M. Global Reports on Avian Influenza – Australia and Oceania. In: *11th International Symposium on Avian Influenza*, 24-26 Jun 2025, St. John's, Newfoundland and Labrador, Canada. Oral presentation.
8. Bergfeld, Jemma, Cashmore, Joe, Wong, Frank and Davis, Erin. An update on Avian Influenza in Australia; In: *Asia-Pacific Wildlife Health Workshop*, 19-21 Jun 2025. Kagoshima, Japan. Oral presentation.

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9. Bergfeld, Jemma, Felipe, Edna, Laurente, Jonas Claude, Robinson, Matthew T, Salinas, Rizza Araceli, Saputra, Sugiyono, Santos, Imelda, Theppangna, Watthana, Tum, Sothyra, Wong, Frank. *The WIViREIDS Project in Southeast Asia: networking to strengthen wildlife diagnostics*. In: Asia-Pacific Wildlife Health Workshop, 19-21 Jun 2025. Kagoshima, Japan. Oral presentation.
10. Rafai, E, Wong F, Urushizaki S. *One Health - Avian Influenza Surveillance and Preparedness Side-Event*; In: 4th Pacific Week of Agriculture and Forestry (PWAF), 26-30 May 2025; Pacific Community, Nukualofa, Tonga. Oral presentation.
11. Wong, Frank. *Supporting Genomic Surveillance of Avian Influenza Viruses*. In: SPOP Workshop on Pathogen Genomic Surveillance (PGS) – A Powerful New Tool for a One Health Approach in the Pacific. 17-20 Mar 2025; Institut Pasteur de Nouvelle Calédonie and Pacific Community, Noumea, New Caledonia. Online presentation.
12. Wong, Frank. *Perspectives on avian influenza in Australia – past, present and future*. In: 36th Annual Australian Poultry Science Symposium; 10-12 Feb 2025; University of Sydney, New South Wales, Australia. Poultry Research Foundation University of Sydney and World Poultry Science Association Australian Branch; 2025. 30; Oral presentation.
13. Belfrage, Maddy, Wong, Frank and Luczo, Jasmina. *Antigenic characterisation of H7 highly pathogenic avian influenza virus under immunological pressure*. In: 12th Australasian Virology Society Meeting 2024; 02-05 Dec 2024; Creswick, Australia. Oral presentation.
14. Callum Le Lay, Vicky Stevens, Pat Mileto, Kelly Davies, Ivano Broz, Matthew Neave, Frank Wong. *Analysis of H5NX Avian influenza diffusion, evolution and recombination in South-East Asia*. In: 12th Australasian Virology Society Meeting 2024; 02-05 Dec 2024; Creswick, Australia. Poster presentation.
15. Dhakal, Sudip, Wynne, James, Jenkins, Kristie, Challagulla, Arjun. *CRISPR/Cas13 as An Antiviral Strategy Against Influenza Virus*. In: 12th Australasian Virology Society Meeting 2024; 02-05 Dec 2024; Creswick, Australia. Poster presentation.

c) National conferences:

3

- (1) Grimsey J, Butler J, Gagliardi M, Grech E. *H7 HPAI outbreak at bench level*. In: Australasian Association of Veterinary Laboratory Diagnosticians (AAVLD); 21-22 Nov 2024; Australian Centre for Disease Preparedness, Geelong, Australia. Oral presentation.
- (2) Belfrage, Maddy, Stevens, Vicky, Wong, Frank and Luczo, Jasmina. *Antigenic characterisation of Australian H7 high pathogenicity avian influenza virus under immunological pressure*. In: Australasian Veterinary Poultry Association (AVPA) 2025; 28-29 Oct 2025; Hobart, Tasmania. Oral presentation.
- (3) Campling, Mia, Belfrage, Maddy, Stevens, Vicky, Allen, Teegan, Dollak, Tash, McNabb, Leanne, Wong, Frank and Luczo, Jasmina. *Understanding the biosecurity risk posed by Australian H5 low pathogenicity avian influenza viruses*. In: Australasian Veterinary Poultry Association (AVPA) 2025; 28-29 Oct 2025; Hobart, Tasmania. Oral presentation.

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

4

- (1) *Dissemination of information on HPAI/avian influenza preparedness and H7 HPAI outbreaks in Australia through media interviews and public information sessions through 2025*.
- (2) Wong, F. *Contributions to the OFFLU Steering & Executive Committee Meetings and Chairperson of the OFFLU Executive Committee and OFFLU Avian Influenza Technical Activity through 2025*.
<https://www.offlu.org/>
- (3) *ACDP participation to OFFLU contributions to the WHO Vaccine Composition Meeting consultations on zoonotic influenza, February and September 2025*.
<https://www.offlu.org/index.php/publications/>
- (4) *ACDP participation to OFFLU contributions to the Avian Influenza Matching (AIM) technical reports HPAI virus antigenic surveillance and poultry vaccine matching through 2025*.
<https://www.offlu.org/index.php/publications/>

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

- a) Technical visit : 102
- b) Seminars : 41
- c) Hands-on training courses: 195
- 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
C	FIJI	1
C	VANUATU	3
C	PAPUA NEW GUINEA	1

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C	LAOS	2
C	PHILIPPINES	2
C	MALAYSIA	1
C	INDONESIA	3
C	VIETNAM	1
C	PHILIPPINES	1
C	MALAYSIA	1
C	TIMOR-LESTE	1
C	INDONESIA	1
C	SINGAPORE	1
C	MYANMAR	1
C	BRUNEI	1
C	PHILIPPINES	1
C	MALAYSIA	1
C	CAMBODIA	1
C	THAILAND	1
C	SAMOA	1
C	FIJI	2
C	VANUATU	1
C	PHILIPPINES	2
C	MALAYSIA	1
C	CAMBODIA	2
C	FIJI	2
A	PAPUA NEW GUINEA	16
C	PAPUA NEW GUINEA	16
A	PAPUA NEW GUINEA	3
A	PAPUA NEW GUINEA	14
C	PAPUA NEW GUINEA	14
C	PAPUA NEW GUINEA	6
B	VIETNAM	8
B	LAOS	7
B	PHILIPPINES	15
B	CAMBODIA	2
B	INDONESIA	9
C	LAOS	13
C	CAMBODIA	7
C	PHILIPPINES	15

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A	CAMBODIA	2
A	INDONESIA	6
C	VIETNAM	10
A	INDONESIA	16
C	INDONESIA	16
C	INDONESIA	38
A	INDONESIA	18
C	INDONESIA	18
C	BRAZIL	1
C	GERMANY	1
C	HUNGARY	1
C	SOUTH AFRICA	2
C	SWITZERLAND	1
A	INDONESIA	6
A	INDONESIA	21

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
Integrated Management System (IMS) covering: ISO:9001 ISO:17025 ISO:17043	BSI ISO9001 FS 605099-001 NOV 2028.pdf	BSI ISO9001 FS 605099-001 NOV 2028.pdf
Integrated Management System (IMS) covering: ISO:9001 ISO:17025 ISO:17043	NATA ISO 17025 APR 2024.pdf	NATA ISO 17025 APR 2024 (1).pdf
Integrated Management System (IMS) covering: ISO:9001 ISO:17025 ISO:17043	NATA ISO 17043 NOV 2022.pdf	NATA ISO 17043 NOV 2022 (1).pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ISO:9001 and ISO:17025. As per NATA ISO:17025 scope of accreditation: Accreditation No. 13546 https://nata.com.au/accredited-organisation/australian-animal-health-laboratory-13546-13539/?highlight=ACDP	BSI NATA

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

Yes

The laboratory has a dedicated Biorisk Management Group (18 Members) who provide specialist advice, monitor and improve Biosafety, Biosecurity and Biocontainment activities and perform annual testing and validation on Biocontainment systems. The team uses a biorisk management approach aligned with ISO 35001 to implement a system of managing biosafety and biosecurity across a wide array of biological hazards. The Biorisk Management Group develop and implement standard operating procedures and institutional policies that set the framework for the handling of biological materials across ACDP and provide ultimate assurance that the laboratory activities pose negligible danger to Australia's agriculture or public health. Policies and procedures are contained in the annually reviewed ACDP Biorisk Manual consisting of various sections as follows. • Section 1 Administration • Section 2 PC2 Procedures and Policies • Section 3 PC3 Procedures and Policies • Section 4 PC4 Procedures and Policies • Section 5 Large Animal Facility (LAF) Procedures and Policies • Section 6 Personnel and Procedural Controls • Section 7 Transport and Storage of Biological Material • Section 8 Movement of Material, Equipment and Waste • Section 9 Engineering Procedures and Polices • Section 10 Microbiological Incident Response

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Procedures and Policies. The ACDP biological risk management system has clear and unequivocal commitment by laboratory management, who ensure that roles, responsibilities, resources and authorities related to biological risk management are defined, documented, and communicated to those who manage, perform, and verify work associated with biological agents and toxins in the laboratory. The Biorisk Management Team are audited over 3 days every 6 months by an external security assessment team to provide an independent review of elements affecting ACDP's microbiological and physical security operations and to advise CSIRO senior executive management of any areas of concern or risk. Biosafety and biosecurity operations are also audited frequently by Australia's regulatory agencies, the Department of Agriculture, Fisheries and Forestry (DAFF), the Office of the Gene Technology Regulator (OGTR) and the Security Sensitive Biological Agents Regulatory Scheme (SSBA).

TOR9: SCIENTIFIC MEETINGS

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

Yes

National/ International	Title of event	Co-organiser	Date	location	No. Participants
International	WOAH Regional Workshop in Avian Disease Prevention and Control in Asia and the Pacific 2025.	WOAH Reference Laboratory for Avian Influenza at Hokkaido University; WOA Regional Representation in Asia and the Pacific.	2025-08-25	Sapporo, Japan	120
International	Asia-Pacific Wildlife Health Workshop 2025.	WOAH Collaborating Centre Network on Wildlife Health (WildNet); Korea National Institute for Wildlife Disease Control & Prevention; and Japan National Institute for Environmental Studies and Kagoshima University, Japan	2025-06-18	Kagoshima, Japan	20
International	SPC/WOAH Avian Influenza Surveillance and Preparedness Side-Event at 4th Pacific Week of Agriculture and Forestry (PWF) 2025.	Pacific Community-SPC; and WOA Regional Representation in Asia and the Pacific.	2025-05-25	Nuku'alofa, Tonga	40

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

Yes

Title of event	Date	location	Role (speaker, presenting poster, short communications)	Title of the work presented
WOAH Regional Workshop in Avian Disease Prevention and Control in Asia and the Pacific 2025.	2025-08-25	Hokkaido University, Sapporo, Japan	Invited Speaker and Workshop Co-facilitator	(1) HPAI laboratory activity and research updates – Australia and Oceania (2) Update on OFFLU animal influenza technical activities.
APQA-MAFRA International Symposium on Avian Influenza 2025.	2025-07-14	Animal and Plant Quarantine Service (APQA), Gimcheon, South Korea	Invited Keynote Speaker and Expert Panelist	Update on OFFLU Avian Influenza Technical Activities.
11th International Symposium on Avian Influenza 2025.	2025-06-23	St. John's, Newfoundland and Labrador, Canada	Invited Speaker and WOA Reference Laboratory Expert, OFFLU Committee member	(1) Global Reports on Avian Influenza – Australia and Oceania. (2) HPAI H7 outbreaks in Australia in 2024. (3) OFFLU Annual Meeting discussions on technical activities and strategy.
Avian Influenza Surveillance and Preparedness Side-Event at the 4th Pacific Week of Agriculture and Forestry (PWF) 2025.	2025-05-25	Nuku'alofa, Tonga	Invited Speaker and WOA Reference Laboratory Expert	One Health and Avian Influenza Surveillance and Preparedness (joint presentation with WOA and SPC.

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
WOAHP/FAO Network of Expertise on Animal Influenza (OFFLU)	OFFLU Executive Committee Chair; OFFLU Technical Activity for Avian Influenza Chair; OFFLU Participant and Contributor.	113	WOAHP Reference Laboratories from Australia (Organiser), Brazil, Egypt, Germany, India, Italy, Korea, United Kingdom. https://offlu.org/contributors/

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?

Yes

Purpose of the proficiency test:	Role of your Reference Laboratory (organiser/ participant)	No. participating Laboratories	Participating WOAHP Ref. Labs/ organising WOAHP Ref Lab
OFFLU Molecular PT for the detection of Avian Influenza from different lineages and regions.	Organiser and Participant	8	WOAHP Reference Laboratories from Australia (Organiser), Brazil, Egypt, Germany, India, Italy, Korea, United Kingdom.

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?

Yes

Title of the project or contract	Scope	Name(s) of relevant WOAHP Reference Laboratories
OFFLU (WOAHP/FAO Network of Expertise on Animal Influenza) - Avian Influenza technical working group	Technical Activity Chair and disease surveillance data contributions	Contributing WOAHP Reference Laboratories for Avian Influenza including Australia, Brazil, Canada, China, Egypt, Germany, India, Italy, Japan, Rep. of Korea, Russia, United Kingdom, and United States of America.
OFFLU contributions on Zoonotic Influenza to the WHO Influenza Vaccine Composition Meetings (VCM).	Contributed to Disease Surveillance and virus characterisation Information sharing	Contributing WOAHP Reference Laboratories for Avian Influenza including Australia, Brazil, Canada, China, Egypt, Germany, India, Italy, Japan, Rep. of Korea, Russia, United Kingdom, and United States of America.
OFFLU Avian Influenza Matching (AIM) project.	Contributed to Disease Surveillance and virus characterisation Information sharing	WOAHP Reference Laboratories for Avian Influenza in Australia (ACDP), Italy (IZSve), United Kingdom (APHA) and USA (USDA).
WOAHP Regional Representation for Asia and the Pacific Expert Group for Avian Diseases.	Contributed to Disease Surveillance and virus characterisation Information sharing	WOAHP Reference Laboratories in the Asia-Pacific, including Australia, China, Rep. of Korea, Japan, and India
WHO/WOAHP/FAO H5 HPAI Virus Clade Nomenclature Working Group	Contributing participant on H5 HPAI virus evolution and clade classification nomenclature updates.	WOAHP Reference Laboratories for Avian Influenza in Australia (ACDP), Italy (IZSve), United Kingdom (APHA) and USA (USDA).
International Consortium on Global Classification and Nomenclature System for A/H9 Influenza Viruses.	Contributing participant on H9 avian influenza virus evolution and classification nomenclature system	WOAHP Reference Laboratories for Avian Influenza in Australia (ACDP), China (CNIC/Harbin), Italy (IZSve), United Kingdom (APHA) and USA (USDA)

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

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

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the test	WOAHP Member Countries
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Frank Wong - - AUSTRALIA

Harmonising existing test methods for PCR detection of Avian Influenza through the Asia Pacific Regional Proficiency Testing Avian Disease PCR Panel.	Organiser	34	Real-Time PCR to Avian Influenza A, H5, H7, H9	AUSTRALIA, BHUTAN, BRUNEI, CAMBODIA, CHINESE TAIPEI, HONG KONG, INDIA, INDONESIA, KOREA (REP. OF), MALAYSIA, NEPAL, PERU, PHILIPPINES, SINGAPORE, SRI LANKA, THAILAND, VIETNAM,
Molecular PCR detection of Avian Influenza as part of the Laboratories Emergency Animal Disease Diagnosis and Response (LEADDR) Network.	Organiser and Participant	9	Real-Time PCR to Avian Influenza A, H5, H7, H9	AUSTRALIA, NEW ZEALAND,
Detection of Avian Influenza antibodies using an ELISA commercial kit as part of the Laboratories Emergency Animal Disease Diagnosis and Response (LEADDR) Network.	Organiser and Participant	9	ELISA	AUSTRALIA, NEW ZEALAND,

TOR12: EXPERT CONSULTANTS

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

Yes

Kind of consultancy	Location	Subject (facultative)
WOAH Regional Workshop for Avian Disease Prevention and Control in Asia and the Pacific 2025	Sapporo, Japan	Disease Diagnostics, Disease Surveillance Updates, and Laboratory Expertise on Avian Diseases.
Member and Chair of OFFLU (WOAH/FAO Network of Expertise on Animal Influenza) Executive Committee	Remote and in-person through the OFFLU Secretariat at WOAHP, Paris.	OFFLU Strategy and Technical Activities on Animal Influenza.
Chair and contributing expert to the OFFLU Avian Influenza Technical Activity	Remote and in-person through the OFFLU Secretariat at WOAHP, Paris.	Disease Diagnostics, Disease Surveillance Updates, and Laboratory Expertise on Avian Diseases.
Contribution of expertise and surveillance data to the OFFLU AIM Technical Activity.	Remote and in-person through the AIM project lead at APHA, United Kingdom.	Genetic Surveillance and Antigenic Characterisation of H5 HPAI Viruses.
Member of the WOAHP Collaborating Centre Network on Wildlife Health (WildNet)	Remote and in-person through the WildNet Chair at WOAHP, Paris.	Global Wildlife Health Surveillance Networking and Capacity Building.
Update and review of WOAHP Terrestrial Manual Chapter on Avian Influenza.	Remote through the WOAHP Biological Standards Commission Secretariat at WOAHP, Paris	WOAHP Terrestrial Manual Chapter on Avian Influenza.
WOAHP Laboratory Twinning with Disease Investigation Centre Wates, Indonesia to support its role as the Indonesian national avian influenza reference laboratory.	Yogyakarta, Indonesia	National Animal Health Laboratory Capacity Building through Laboratory Twinning Support and Training.

29. Additional comments regarding your report:

No