

WOAH Collaborative Centre Reports Activities 2025

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CENTRE INFORMATION

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| *Title of WOA Collaborating Centre | Laboratory Capacity Building |
| *Address of WOA Collaborating Centre | Australian Centre for Disease Preparedness (ACDP), 5 Portarlington Road, East Geelong VIC 3219 |
| *Tel: | +61 3 5227 5000 |
| *E-mail address: | phoebe.readford@csiro.au |
| Website: | www.csiro.au/en/about/facilities-collections/acdp |
| *Name Director of Institute (Responsible Official): | Dr Debbie Eagles |
| *Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point): | Dr Phoebe Readford, Group Leader - International Program, Australian Centre for Disease Preparedness |
| *Name of the writer: | Phoebe Readford |

TOR 1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOA

| Category | Title of activity | Scope |
|--|--|--|
| Training, capacity building (true) | Biosafety workshops (supported by the Australian Department of Foreign Affairs and Trade [DFAT] and the USA Defense Threat Reduction Agency [DTRA]) | Biosafety workshops were conducted at ACDP for 25 participants from countries across SE Asia and the Pacific. The attending country participants included laboratory quality assurance personnel, biorisk/biosafety managers, laboratory leaders and technical laboratory staff. The workshop consisted of both lectures and practical instruction conducted within the high containment area of the ACDP. |
| Diagnosis, biotechnology and laboratory (true) | EID surveillance (supported by the Australian Department of Foreign Affairs and Trade [DFAT]) | A project to support both environmental and animal surveillance in high-risk locations (e.g. wet markets) and build capacity for sample collection and transport and next generation sequencing diagnostics. Surveillance is conducted for EIDs such as coronaviruses and influenza A viruses. Projects are being delivered in Cambodia, Indonesia, Laos and the Philippines. |
| Training, capacity building (true) | Biosafety workshops (supported by the Australian Department of Foreign Affairs and Trade [DFAT]) and in collaboration with National Parks, Singapore as the ASEAN Regional Reference Centre for Biorisk Management | A Biosafety workshop was conducted in Singapore for 9 participants from ASEAN nations. The attending country participants included laboratory quality assurance personnel, biorisk/biosafety managers, laboratory leaders and technical laboratory staff. The workshop consisted of both lectures and practical instruction. |
| Training, capacity building (true) | Provision of technical support to Disease Investigation Centre Wates (DIC Wates) Indonesia, as part of twinning arrangements supported by the Australian Department of Foreign Affairs and Trade (DFAT) | ACDP is providing technical support to DIC Wates under a self-funded WOA laboratory twinning arrangement. |
| Training, capacity building (true) | Provision of technical support to the National Animal Health and Food Testing Laboratory (NAHFTL) in Port Moresby Papua New Guinea in collaboration with the National Agriculture, Quarantine and Inspection Authority (NAQIA) and supported by the Australian High Commission | ACDP is building diagnostic capability, particularly in PCR testing, supporting the development of field diagnostics and strengthening disease surveillance in priority livestock and aquatic animal diseases for PNG. |

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| Training, capacity building (true) | Pacific Networked Diagnostics (supported by the Australian Department of Foreign Affairs and Trade [DFAT]) | A project to improve diagnostic capability and diagnostic networks in the animal health sector in Pacific Island Countries and Territories (PICTs) through practical and sustainable field diagnostics for endemic diseases which can improve animal production and build capacity for surveillance for emerging infectious diseases (EIDs). |
| Training, capacity building (true) | Regional Emerging Disease Support (supported by the Australian Department of Agriculture, Forestry and Fisheries) | Strengthen laboratory diagnostic capability in Indonesia through improved laboratory skills and external quality assurance (EQA) for FMD and LSD. The REDS project aims to strengthen capacity for the two key laboratories, DIC Wates and Pusvetma, to be capable of implementing EQA programs, including proficiency testing (PT), for LSD and FMD (respectively) for the Indonesian veterinary laboratory network. |
| Diagnosis, biotechnology and laboratory (true) | Laboratory leadership and networking in the Asia-Pacific (supported by the Australian Government Department of Foreign Affairs and Trade) | This activity aims to build laboratory leadership and networks within SE Asia and has 2 main activities within its scope. Firstly, the provision of technical support to the National Centre for Veterinary Diagnostics 2 (NCVD 2) Laboratory, Ho Chi Minh City, Vietnam to build capacity as a regional laboratory leader in swine disease diagnostics, including African Swine Fever (ASF). Secondly, ACDP is supporting laboratory placements across the Asia Pacific region to build both diagnostic capability and laboratory networks in the region. |
| Diagnosis, biotechnology and laboratory (true) | Provision of Proficiency Testing | As a proficiency testing provider to more than 25 regional laboratories, ACDP is supporting the development of increased diagnostic capability. All PT reports are provided to the sponsors and to each participating laboratory and their respective central line management, allowing a regular assessment of laboratory performance and implementation of quality assurance, and the ability to seek technical assistance as required. |

TOR 3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

| Proposal title | Scope/Content | Applicable Area |
|---|---|----------------------|
| Improved laboratory quality assurance systems | Provide advice, support and training to laboratories wanting to establish or improve quality assurance systems such as those provided through; • ISO 17025:2017 General requirements for the competence of testing and calibration laboratories • ISO 9001:2015 Quality Management systems - requirements • ISO 17043:2023 Conformity assessment – General requirements for the competence of proficiency testing providers | Laboratory Expertise |

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

No

4. Did your Collaborating Centre maintain a network with other WOAHP Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same speciality, to coordinate scientific and technical studies?

Yes

| Name of WOAHP CC/RL/other organisation(s) | Location | Region of networking Centre | Purpose |
|---|----------|--|--|
| BioPrevail | Global | África América Asia y el Pacífico Europa Oriente Medio | BioPrevail is a Health Security Innovation initiative for Sustainable Laboratories. |
| BSL4ZNet | Global | África América Asia y el Pacífico Europa Oriente Medio | BSL4ZNet is a network of government-mandated organisations with national level responsibility for protecting animal health by working together to enhance knowledge, competency and capacity to meet current and |

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| | | | future high containment needs, including for new and emerging diseases. |
| The ASEAN Laboratory Technical Advisory group (LabTAG) | Asia | Asia y el Pacífico | Provision of technical advice on strengthening laboratory capacity, laboratory diagnostic services and laboratory biosafety and security. Advocacy for the implementation of regional strategic frameworks and facilitate and coordinate activities relating to laboratory capacity building to minimise duplication and maximise outputs. |
| Research Centre for Biology (RCB), at BRIN (Badan Riset dan Inovasi Nasional; National Research and Innovation Agency Indonesia) | Indonesia | Asia y el Pacífico | Supporting regional EID surveillance at wildlife and animal-human-wildlife interfaces in Indonesia under a wildlife market surveillance program. |
| Bureau of Animal Industry (BAI) | Philippines | Asia y el Pacífico | Supporting regional EID surveillance at wildlife and animal-human-wildlife interfaces in Indonesia under a wildlife market surveillance program. |
| Lao-Oxford-Mahosot Hospital – Wellcome Trust Research Unit (LOMWRU) | Laos PDR | Asia y el Pacífico | Supporting regional EID surveillance at wildlife and animal-human-wildlife interfaces in Indonesia under a wildlife market surveillance program. |
| National Animal Health and Production Research Institute (NAHPRI) | Cambodia | Asia y el Pacífico | Supporting regional EID surveillance at wildlife and animal-human-wildlife interfaces in Indonesia under a wildlife market surveillance program. |
| WOAH Collaborating Centre on Wildlife Health Risk Management | Asia and Pacific | Asia y el Pacífico | Providing technical input on wildlife health diagnostics and EID surveillance. Partnering to deliver workshops on wildlife disease and EID surveillance and risk assessment. |
| Pacific Heads of Veterinary and Animal Production Services (PHOVAPS) | Pacific Islands and Territories | Asia y el Pacífico | Support to PHOVAPS and the Secretariat (the Pacific Community – SPC) on laboratory diagnostics through provision of technical training and support and as interim secretariat for the Pacific Animal Health Laboratory Network (PAHLNet). |

TOR 4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOA Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

| Name of WOA CC/RL/other | | Region of | |
|-------------------------|--|-----------|--|
|-------------------------|--|-----------|--|

| organisation(s) | Location | networking Centre | Purpose |
|---|------------------|---|---|
| European virus Archive - Global (EVAg) | Global | Africa Americas Asia and Pacific Europe Middle East | A coordinated global network that mobilises expertise in virology to amplify, characterise, standardise, authenticate, distribute, track and collect viruses and derived products. |
| Global African Swine Fever Disease Research Alliance | Global | Africa Americas Asia and Pacific Europe Middle East | To establish and sustain global research partnerships that will generate scientific knowledge and tools to contribute to the successful prevention, control and, where feasible, eradication of ASF. |
| Global Foot-and-Mouth Disease Research Alliance | Global | Africa Americas Asia and Pacific Europe Middle East | A coordinated global alliance of scientists producing evidence and innovation that enables the progressive control and eradication of FMD. |
| WOAH Aquatic Animal Health Standards Commission | Global | Africa Americas Asia and Pacific Europe Middle East | Collaboration is needed to ensure the aquatic animal health code and manual of diagnostic tests for aquatic animals reflect current scientific information. |
| SRD Global BioDefense Network | Global | Africa Americas Asia and Pacific Europe Middle East | The Five Research and Development (SRD) Global Biodefense Network (GBDN) is a forum for SRD members to maintain dialogue on various topics regarding biological hazards, emphasising hazard assessment, characterisation and biosecurity issues for COVID-19 and other emerging diseases. |
| OFFLU | Global | Africa Americas Asia and Pacific Europe Middle East | Coordination of the science underpinning the management and control of influenza in animals. |
| The Asia Pacific Consortium of Veterinary Epidemiology (APCOVE) | Asia and Pacific | Asia and Pacific | Consortium of veterinary epidemiologists to strengthen field epidemiology capacity in the Asia Pacific region. |

TOR 6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOAHP?

Yes

| Name of expert | Kind of consultancy | Subject |
|-------------------|---|---------------------------------------|
| Dr Jemma Bergfeld | Invited presenter and provision of technical advice | Asia-Pacific Wildlife Health workshop |
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| Dr Frank Wong and Dr Caitlin Holley | Invited presenter and provision of technical advice | WOAH Regional workshop for Avian disease prevention and control in Asia and the Pacific |
| Dr Jemma Bergfeld | Invited participant and provision of technical advice | WOAH training on sample collection for Avian Influenza and Environmental Sampling |
| Dr Nick Moody | Invited Participant | WOAH workshop on identifying priority research areas for finfish health |
| Dr Nick Moody | Invited Participant | WOAH Ad Hoc group on susceptibility of crustacean species to infection |
| Dr David Williams | Invited Participant | International Symposium of the World Association of Veterinary Laboratory Diagnosticians |
| Dr Petrus Jansen van Vuren | Invited Participant | 10th meeting of the Standing Group of Experts on African swine fever for Asia and the Pacific |
| Dr Debbie Eagles | Invited participant and member of organising board | WOAH Global Conference on Biological Threat Reduction |

TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

Yes

Specific details on the activities delivered and the participants who benefited are provided in section 1 and section 8.

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOA, to personnel from WOA Members?

Yes

a) Technical visit : 118

b) Seminars : 41

c) Hands-on training courses: 269

d) Internships (>1 month) : 0

| Type of technical training provided (a, b, c or d) | Content | Country of origin of the expert(s) provided with training | No. participants from the corresponding country |
|--|---|---|---|
| C | Introduction to Biorisk Management | Fiji, Vanuatu, Papua New Guinea, Laos, Philippines, Malaysia | 10 |
| C | Introduction to Biorisk Management | Indonesia, Vietnam, Philippines, Malaysia | 6 |
| C | Introduction to Biorisk Management, in collaboration with National Parks, Singapore | Timor-Leste, Indonesia, Singapore, Myanmar, Brunei, Philippines, Malaysia, Cambodia, Thailand | 9 |
| C | Biorisk Management Leadership | Samoa, Fiji, Vanuatu, Philippines, Malaysia, Cambodia | 9 |
| A | Molecular diagnostics training for brucellosis and mycobacterium tuberculosis | Fiji | 6 |

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| C | Molecular diagnostics training for brucellosis and mycobacterium tuberculosis | Fiji | 6 |
| C | Introductory histology training | Fiji | 2 |
| A | Technical training on prawn sample collection for molecular diagnostics | Papua New Guinea | 9 |
| A | Biorisk management – chemical safety review | Papua New Guinea | 16 |
| C | Biorisk management training – chemical safety | Papua New Guinea | 16 |
| A | Review of molecular and serological diagnostics for aquatic animal diseases | Papua New Guinea | 3 |
| C | Molecular and serological diagnostics for aquatic animal diseases | Papua New Guinea | 3 |
| A | Quality Assurance support | Papua New Guinea | 3 |
| A | Biorisk management review – biocontainment, waste and incident management, PPE and sharps | Papua New Guinea | 14 |
| C | Biorisk management training – biocontainment, waste and incident management, PPE and sharps | Papua New Guinea | 14 |
| C | Technical training on laboratory information management systems and quality assurance activities | Papua New Guinea | 6 |
| B | MinION Webinar | Vietnam, Laos, Philippines, Indonesia, Cambodia | 41 |
| C | Molecular and sequencing workflows | Laos | 13 |
| C | Molecular and sequencing workflows | Cambodia | 7 |
| C | Molecular and sequencing workflows | Philippines | 15 |
| A | MinION sequencing | Cambodia | 2 |

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| A | MinION sequencing and data analysis | Indonesia | 6 |
| C | Proficiency testing accreditation | Vietnam | 10 |
| A | Auditing for improvement | Indonesia | 16 |
| C | Auditing for improvement | Indonesia | 16 |
| C | Quality Assurance – ISO 9001 and ISO 17025 workshop for managers | Indonesia | 38 |
| C | Technical training on preparation of synthetic controls for PCR | Indonesia | 18 |
| C | Quality Assurance training – data analysis of inter-laboratory comparisons | Indonesia | 18 |
| C | Applied biosafety training course | Brazil, Germany, Hungary, South Africa, Switzerland | 6 |
| C | Validation training and mentoring for Avian Influenza virus PCR diagnostics | Indonesia | 6 |
| A | Avian Influenza antisera production support | Indonesia | 21 |
| C | Training in bacteriology diagnostics | Papua New Guinea | 5 |
| C | Training in bacteriology diagnostics | Papua New Guinea | 7 |
| A | PNG's Aquatic Biosecurity Strategic plan | Papua New Guinea | 15 |
| A | Review biosafety infrastructure for Rabies diagnostics | Timor-Leste | 4 |
| C | Conduct training in rabies diagnostics – Fluorescent Antibody Test | Timor-Leste | 6 |
| C | Laboratory networking and field sampling training | Kirabati, Fiji, Cook Islands, Tonga, Guam, Samoa, Solomon Islands, Papua New Guinea, Vanuatu, Tuvalu, New Caledonia | 17 |

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| A | Laboratory diagnostic procedures for prawn testing | Papua New Guinea | 3 |
| C | Bacteriology training and laboratory placement | Samoa | 1 |
| C | Histology training and laboratory placement | Fiji | 2 |
| C | Electron Microscopy laboratory placement | Philippines | 3 |

TOR 8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOA?H

No

TOR 9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOA?H that may be useful to Members of WOA?H

a) Articles published in peer-reviewed journals:

24

1. El-Maslahi, Houda; Turek, Ilona; Bi, Chuyun; Wong, Aloysius; Tzfadia, Oren; Irving, Helen; et al. Functions and synthesis of abscisic acid (ABA) in humans — insights from computational approaches. *International Journal of Molecular Sciences*. 2025; 26(22):1-17.
 <https://doi.org/10.3390/ijms26221115
>Access: Public
Record Identifier: csiro:EP2025-2594
2. Hill, Erin; Milla, Liz; Encinas-Viso, Francisco; O'Dwyer, James; Gooden, Ben; Hopper, Mariana; et al. Surface swabs outperform most traditional honeybee (*Apis mellifera*) hive samples for recovery of eDNA and eRNA. *Metabarcoding and Metagenomics*. 2025; 9(e165436):31.
 <https://doi.org/10.3897/mbmg.9.165436
>Access: Public
Record Identifier: csiro:EP2025-4522
3. Wang, Jianning. Discovery and rescue of porcine coronaviruses associated with polioencephalomyelitis in domestic pigs. *Journal of Virology*. 2025; 99(9):1-10.
 <https://doi.org/10.1128/jvi.01130-25
>Access: Public
Record Identifier: csiro:EP2025-5114
4. Rostal, Melinda; Prentice, Jamie; Ross, Noam; Kemp, Alan; Thompson, Peter; Anyamba, Assaf; et al. Localized Rift Valley fever virus persistence explains epidemic and interepidemic dynamics and guides control strategies. *Proceedings of the Royal Society B: Biological Sciences*. 2025; 292(20250453):12.
 <https://doi.org/10.1098/rspb.2025.0453
>Access: Public
Record Identifier: csiro:EP2024-2990
5. Jia, Fan; Lynch, Stacey; Williams, David. The Potential of Disabled Infectious Single Cycle (DISC) Virus Platforms for Next Generation African Swine Fever Vaccine Development. *Transboundary and Emerging Diseases*. 2025. N/A.
 <https://doi.org/10.1155/tbed/8573171
>Access: Public
Record Identifier: csiro:EP2024-4926
6. Mahar, Jackie; Mélade, Julien; Harvey, Erin; Grove, Joe; Darby, Jocelyn; Flies, Andrew; et al. Isolation of an infectious mammalian chu-like virus from tumor cells of the endangered Tasmanian devil (*Sarcophilus harrisii*). *Current Biology*. 2025; 35:8.
 <https://doi.org/10.1016/j.cub.2025.05.070
>Access: Public
Record Identifier: csiro:EP2025-2753
7. 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.
 <https://doi.org/10.1080/10495398.2025.2523027
>Access: Public
Record Identifier: csiro:EP2024-2082
8. Mahar, Jackie; Howard-Jones, Annaleise; Proudmore, Kate; Butel-Simoës, Grace; Eden, John-Sebastian; Hueston, Linda; et al. Diagnostic and phylogenetic perspectives of the 2023 Murray Valley encephalitis virus outbreak in Australia: an observational study. *The Lancet Microbe*. 2025. 12p.
 <https://doi.org/10.1016/j.lanmic.2025.101089
>Access: Public
Record Identifier: csiro:EP2025-2751
9. Layton, Rachel; Beggs, David; Mansell, Peter; Fisher, Andrew; Layton, Daniel; Williams, David; et al. Application of Minimally Invasive Physiological Monitoring Techniques in Pigs for Scientific Purposes. *Journal of applied animal welfare*. 2025; 1(10):n/a.
 <https://doi.org/10.1080/10888705.2025.2516786
>Access: Public
Record Identifier: csiro:EP2024-4509
10. Mohr, Peter; Bradley, Tracey; Humphrey, John; Moody, Nick; Cummins, David; Slater, Joanne; et al. *Bonamia exitiosa*: The cause of bonamiasis in native oysters *Ostrea angasi* in Australia in 2015. *Diseases of Aquatic Organisms*. 2025; 162:99-113.
 <https://doi.org/10.3354/dao03853
>Access: Public
Record Identifier: csiro:EP2024-5105
11. Layton, Rachel; Beggs, David; Mansell, Peter; Fisher, Andrew; Layton, Daniel; Boyd, Matthew; et al. Jugular vein vascular access ports for serial pig blood sampling in high biocontainment infectious disease studies. *Frontiers in Animal Science*. 2025; 6(2025):10.
 <https://doi.org/10.3389/fanim.2025.1573822
>Access: Public
Record Identifier: csiro:EP2025-0427
12. Sullivan, Róisín; Becker, Joy A.; Zadoks, Ruth N.; Venturini, Carola; Esteves, Ana I. S.; Benedict, Suresh; et al. *Vibrio harveyi* plasmids as drivers of virulence in barramundi (*Lates calcarifer*). *PLoS ONE*. 2025. 24p.
 <https://doi.org/10.1371/journal.pone.0319450
>Access: Public
Record Identifier: csiro:EP2025-2778
13. Mohr, Peter; Pefanis, Stephen; Knowles, Graeme; Swift, Kate; Bergfeld, Jemma; Wilson, Teresa; et al. Viral Nervous Necrosis due to Betanodavirus: A case study in pot-bellied seahorses (*Hippocampus abdominalis*). *Journal of Fish Diseases*. 2025. e14131.
 <https://doi.org/10.1111/jfd.14131
>Access: Public
Record Identifier: csiro:EP2025-1230
14. 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
>Access: Public
Record Identifier: csiro:EP2025-4108
15. Deerain, 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
>Access: Public
Record Identifier: csiro:EP2025-1621
16. McNamara, Bridgette; Cornish, Jack; Blasdell, Kim; Athan, Eugene; Clarke, Naomi; Pe, Tiffany; et al. Possum faeces, the 'canary in the coalmine' heralding the emergence of Buruli ulcer in an Australian urban centre. *Emerging Infectious Diseases*. 2025. 1-3.
 <https://doi.org/10.3201/eid3103.240657
>Access: Public
Record Identifier: csiro:EP2024-2106
17. Development and Validation of a Differentiating Infected from Vaccinated Animals (DIVA) Enzyme-Linked Immunosorbent Assay (ELISA) Strategy for Distinguishing Between Hendra-Infected and Vaccinated Horses. *Viruses*. 2025; 17(354):1-13.
 <https://doi.org/10.3390/v17030354
>Access: Public
Record Identifier: csiro:EP2024-6075
18. Teffera, Mahder; Boshra, Hani; Bowden, Timothy R.; Babuik, Shawn. Which proteins? The challenge of identifying the protective antigens for next generation capripoxvirus vaccines. *Vaccines*. 2025. 18p.
 <https://doi.org/10.3390/vaccines13030219
>Access: Public
Record Identifier: csiro:EP2025-0756
19. Sharpe, Stephen; Madhav, Mukund; Klein, Melissa; Blasdell, Kim; Paradkar, Prasad; Lynch, Stacey; et al. Novel putative arboviruses and insect-specific viruses in Bluetongue virus vector, *Culicoides brevitarsis*. *Journal of General Virology*. 2025. 14p.
 <https://doi.org/10.1099/jgv.0.002076
>Access: Public
Record Identifier: csiro:EP2024-5447
20. Layton, Rachel; Beggs, David; Fisher, Andrew; Mansell, Peter; Riddell, Sarah; Layton, Daniel; et al. A positive reinforcement training regime for refined sample collection in laboratory pigs. *Animals*. 2025; 15(4):10.
 <https://doi.org/10.3390/ani15040471
>Access: Public
Record Identifier: csiro:EP2024-3457

22. Layton, Rachel; Beggs, David; Fisher, Andrew; Mansell, Peter; Layton, Daniel; Durr, Peter; et al. Welfare implications of low-dose atipamezole reversal of tiletamine/zolazepam/xyzazine anaesthesia in laboratory pigs. *Animals*. 2025; 15(2):15.
 <https://doi.org/10.3390/ani15020258
>; Access: Public
 Record Identifier: csiro:EP2024-6282
23. Ahmed, Asif; Yeap, Heng Lin; Coppin, Chris; Liu, Jian-Wei; Pandey, Gunjan; Taylor, Phil; et al. Seminal fluid proteins in the Queensland fruit fly: tissue origins, effects of mating and comparative genomics. *Insect Biochemistry and Molecular Biology*. 2025; 177:1-16.
 <https://doi.org/10.1016/j.ibmb.2024.104247
>; Access: Public
 Record Identifier: csiro:EP2024-4780
24. Ahmed, Asif; Karawita, Anjana; Klein, Melissa; Court, Leon; Mincarelli, Luana Fiorella; Secondini, Barbara; et al. Complete mitochondrial genomes of *Culicoides brevitarsis* and *Culicoides imicola* biting midge vectors of Bluetongue Virus. *Mitochondrial dna part b*. 2025; 10(1):67-71.
 <https://doi.org/10.1080/23802359.2024.2447750
>; Access: Public
 Record Identifier: csiro:EP2024-4630

b) International conferences:

8

1. 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 to end of 08 Aug 2025; Utrecht, The Netherlands. <http://hdl.handle.net/102.100.100/710149?index=1
>
2. Royle, Caroline; Trinidad, Abigail; Blanch Lazaro, Berta; Ahmed, Shahana; Munyanduki, Henry; Bowden, Tim; et al. Longitudinal Immune Profiling of Experimentally LSDV Infected Cattle. In: *International Veterinary Immunology Symposia*; 11 to end of 14 Aug 2025; Vienna, Austria. IVIS Conference Book; <http://hdl.handle.net/102.100.100/709123?index=1
>
3. CSIRO. Multi-omics signatures indicative of status and effectiveness of vaccination against SARS-CoV-2 in ferrets. In: *American Virology Society Annual Meeting*; 14 to end of 17 Jul 2025; Montreal, Quebec. <http://hdl.handle.net/102.100.100/707498?index=1
>
4. CSIRO. The WIViREIDS Project in Southeast Asia: networking to strengthen wildlife diagnostics. In: *Asia-Pacific Wildlife Health Workshop 2025*; 19 to end of 21 Jun 2025; Kagoshima, Japan. <http://hdl.handle.net/102.100.100/706807?index=1
>
5. Turek, Ilona; Nguyen, Trang; Galea, Charles; Abad, Isaiiah; Freihat, Lubna; Manallack, David; et al. Mutations in the vicinity of the IRAK3 guanylate cyclase centre impact its subcellular localisation and ability to modulate inflammatory signalling. In: *AUD-oMicS 2025 - Incorporating the 30th Proteomics Symposium, 30th ANZSMS Meeting, Australia and New Zealand Metabolomics Society & 6th Australasian Glycoscience Symposium*; 18 to end of 21 May 2025; Cairns, QLD. <http://hdl.handle.net/102.100.100/706607?index=1
>
6. CSIRO. CRISPR/Cas13 as An Antiviral Strategy Against Influenza Virus.. In: *12th Australasian Virology Society Conference 2024*; 02 to end of 05 Dec 2024; RACV Goldfields, Creswick, Victoria. <http://hdl.handle.net/102.100.100/705503?index=1
>
7. Cookson, B; Curtis, B; Readford, P. Australia's collaborations within the Asia-Pacific region. In: *Conference of the WOA Regional Commission for Asia and the Pacific*; 22-25 Sept 2025; Jakarta, Indonesia. <https://rr-asia.woah.org/en/regional-commission/34th-conference-of-the-regional-commission-for-asia-and-the-pacific/recommendations-finalreport/>
8. Readford, P; Poulley, J.T; Holley, C; Polotnianka, R. Strengthening biorisk management in the Asia-Pacific: Initiatives and Opportunities; 28-30 Oct 2025, Geneva, Switzerland. <https://chrome-extension://efaidnbmnnnibpcjpcclcfefindmkaj/https://www.woah.org/app/uploads/2025/11/list-of-poster-for-publication.pdf>

c) National conferences:

9

1. Moody, Nick. WOA ad hoc Group on Megalocytivirus pagrus1. In: *AQAUPLAN Webinar*; 22 to end of 22 Oct 2025; Online. <http://hdl.handle.net/102.100.100/710738?index=1
>
2. Stanley, Meg. Collaboration and adaptability among staff. In: *ANZLAA 2025*; 11 to end of 13 Aug 2025; Hobart, Tasmania. <http://hdl.handle.net/102.100.100/710969?index=1
>
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d) Other (Provide website address or link to appropriate information):

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11. What have you done in the past year to advance your area of focus, e.g. updated technology?

The Australian Centre for Disease Preparedness has updated and refined its training materials on a range of topics, including Biorisk management and Quality management, and made these freely available online. Training material can be found at: <https://research.csiro.au/acdpip/>
Additionally, we have continued to participate in a broad range of networks, meetings and workshops to support and strengthen laboratory capacity building in the Asia Pacific region. Examples, in addition to the conferences and WOA meetings mentioned earlier in this report, include participation and presentation at the launch of the ASEAN Coordinating Centre for Animal Health and Zoonoses (November 2025, Kuala Lumpur, Malaysia), Pacific Week of Agriculture and Forestry One Health side event (May 2025, Nuku'alofa, Tonga), Science for Nature and People Partnership (SNAPP) African swine fever working group (June 2025, Bali, Indonesia) and the FAO Laboratory Technical Advisory Group (LabTAG) meeting (May 2025, Vientiane, Laos).

12. Additional comments regarding your report:

While the Australian Centre for Disease Preparedness has stated we have not organised, or participated in organising, scientific meetings in relation to our focus area (ToR 8, Question 9), we do regularly

assist WOAHA in the development of agendas and presentations at scientific and technical meetings that we attend which are listed in Question 6. Example of this include assisting WOAHA for the Asia-Pacific Wildlife Health network meeting (June 2025, Kagoshima, Japan) and WOAHA Regional workshop for Avian disease prevention and control (August 2025, Tokyo, Japan).