WOAH Collaborative Centre Reports Activities 2022

Activities in 2022

This report has been submitted: 11 avril 2023 03:32

Centre Information

<table>
<thead>
<tr>
<th>Title of WOAH Collaborating Centre</th>
<th>Laboratory Capacity Building</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address of WOAH Collaborating Centre</td>
<td>Australian Centre for Disease Preparedness. 5 Portarlington Road East Geelong, Victoria, Australia, 3220</td>
</tr>
<tr>
<td>Tel.:</td>
<td>+61 35227 5000</td>
</tr>
<tr>
<td>E-mail address:</td>
<td><a href="mailto:dwane.obrien@csiro.au">dwane.obrien@csiro.au</a></td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://www.csiro.au">www.csiro.au</a></td>
</tr>
<tr>
<td>Name Director of Institute (Responsible Official):</td>
<td>Prof. Trevor Drew</td>
</tr>
<tr>
<td>Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):</td>
<td>Dr. Dwane O’Brien - Research Director Diagnostics, Surveillance and Response</td>
</tr>
<tr>
<td>Name of the writer:</td>
<td>Dwane O’Brien</td>
</tr>
</tbody>
</table>

TOR1 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 WOAH

<table>
<thead>
<tr>
<th>Training, capacity building</th>
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</thead>
<tbody>
<tr>
<td>Title of activity</td>
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<tr>
<td>---------------------</td>
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<tr>
<td>Biosafety workshops were conducted on at ACDP for 14 participants from countries across SE Asia. The attending</td>
</tr>
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</table>
Biosafety workshops (supported by Australian Department of Foreign Affairs and Trade [DFAT] and the USA Defence Threat Reduction Agency) country participants included laboratory quality assurance personnel, biorisk/biosafety managers, laboratory heads and technical laboratory staff. The workshop consisted of both lectures and practical instruction conducted within the high containment area of the ACDP.

<table>
<thead>
<tr>
<th>Training, capacity building</th>
<th>Title of activity</th>
<th>Scope</th>
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</thead>
<tbody>
<tr>
<td>EID surveillance (supported by Australian Government Department of Foreign Affairs and Trade)</td>
<td>Surveillance of wildlife and livestock in high-risk locations (e.g. wet markets) and for EID’s such as coronaviruses and influenza A viruses</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Training, capacity building</th>
<th>Title of activity</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia Indonesia Health Security Program – Lab strengthening Component (supported by DFAT and managed by Cardno)</td>
<td>Priority laboratory diagnostic capacity building activities for Indonesia including Lumpy Skin Disease, ASF/CSF, FMD exclusion testing, and general laboratory QA and Biosafety.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnosis, biotechnology and laboratory</th>
<th>Title of activity</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provision of technical support to the Regional Animal Health Office No. 6 (RAHO-6) Laboratory, Ho Chi Minh City, Vietnam under the WOAH supported twinning project</td>
<td>ACDP is providing technical support to RAHO-6 under a WOAH twinning project. This will support RAHO-6 in its efforts towards an application to be a future WOAH Reference laboratory for selected swine diseases including African Swine Fever (ASF)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnosis, biotechnology and laboratory</th>
<th>Title of activity</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provision of technical support to Disease Investigation Centre Waters (DIC DWates) Indonesia, as part of twinning arrangements supported by the Australian Department of Foreign Affairs and Trade (DFAT) Centre for Health Security</td>
<td>ACDP is providing technical support to DIC Waters laboratory under twinning arrangements.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnosis, biotechnology and laboratory</th>
<th>Title of activity</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provision of technical support to the National Animal Health and Food Testing Laboratory (NAFTL) in Port Moresby Papua New Guinea in collaboration with the National Agriculture, Quarantine and Inspection Authority (NAQIA) and supported by the Australian High Commission</td>
<td>Using African swine fever as a model, ACDP will build diagnostic capability, particularly in PCR testing, support development of field diagnostics and strengthen disease surveillance.</td>
<td></td>
</tr>
</tbody>
</table>

WOAH Collaborative Centre Reports Activities 2022
Lumpy Skin Disease Preparedness in Timor-Leste supported by the Australian Department of Agriculture, Fisheries and Forestry (DAFF)

Provision of LSD ELISA kits and technical support and troubleshooting to the National Animal Health Laboratory in Timor-Leste.

TOR3: 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

<table>
<thead>
<tr>
<th>Proposal title</th>
<th>Scope/Content</th>
<th>Applicable area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improved laboratory quality assurance systems</td>
<td>Provide advice and support to laboratories wanting to establish or improve laboratory quality assurance systems such as those provided through AS/NZS ISO 9001:2015 and environmental management systems under AS/NZS ISO 14001:2015</td>
<td>Laboratory expertise</td>
</tr>
<tr>
<td>Pilot virtual training content and learning management platform</td>
<td>To enable the remote delivery of laboratory capacity building activities using virtual reality, real time remote viewing and other web-based tools.</td>
<td>Laboratory expertise Training and education</td>
</tr>
</tbody>
</table>

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

Yes

<table>
<thead>
<tr>
<th>Name of OIE CC/RL/other organisation(s)</th>
<th>Location</th>
<th>Region of networking Centre</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSL4ZNet</td>
<td>Global</td>
<td>Americas Asia and Pasific Europe</td>
<td>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 future high containment needs, including for new and emerging diseases</td>
</tr>
<tr>
<td>OFFLU</td>
<td>Global</td>
<td>Africa Americas Asia and Pasific Europe</td>
<td>Coordination of the science underpinning the management and control of influenza in animals</td>
</tr>
<tr>
<td>Organization</td>
<td>Country</td>
<td>Region</td>
<td>Collaboration Activities</td>
</tr>
<tr>
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</tr>
<tr>
<td>OIE ad hoc Steering Committee of the Regional Framework on Aquatic Animal Health in the Asia Pacific Region</td>
<td>MiddleEast</td>
<td>Asia Pacific</td>
<td>Increasing collaboration in the region on investigation of emerging aquatic diseases, improving tests capability and proficiency testing, with the view to improve overall capability.</td>
</tr>
<tr>
<td>The Fleming Fund</td>
<td>UK</td>
<td>Asia and Pasific</td>
<td>To collaborate on Antimicrobial resistance initiatives.</td>
</tr>
<tr>
<td>Burnet Institute</td>
<td>Australia</td>
<td>Asia and Pasific</td>
<td>To collaborate on research projects</td>
</tr>
<tr>
<td>Australian Centre for International Agricultural Research (ACIAR)</td>
<td>Australia</td>
<td>Asia and Pasific</td>
<td>To collaborate on capacity building initiatives</td>
</tr>
<tr>
<td>FAO Indonesia country program</td>
<td>Asia</td>
<td>Asia and Pasific</td>
<td>Collaboration on surveillance of wildlife and livestock in high risk locations (e.g. wet markets) for EIDs such as coronaviruses and Influenza A viruses. Collaboration to improve biosafety capacity in the Asia-Pacific region</td>
</tr>
<tr>
<td>Mahidol Oxford Tropical Medicine Research Unit (MORU)</td>
<td>Asia</td>
<td>Asia and Pasific</td>
<td>Collaboration on surveillance of wildlife and livestock in high risk locations (e.g. wet markets) for EIDs such as coronaviruses and Influenza A viruses. Collaboration to improve biosafety capacity in the Asia-Pacific region</td>
</tr>
<tr>
<td>US Defense Threat reduction Agency (DTRA)</td>
<td>USA</td>
<td>Americas</td>
<td>Maintain communication and collaboration to improve biosafety and biosecurity capacity in the Asia-Pacific region.</td>
</tr>
</tbody>
</table>

WOAH Collaborative Centre Reports Activities 2022
## TOR4 AND 5: NETWORKING AND COLLABORATION

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

Yes

<table>
<thead>
<tr>
<th>Name of OIE CC/RL/other organisation(s)</th>
<th>Location</th>
<th>Region of networking Centre</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEPI</td>
<td>Global</td>
<td>Africa Americas Asia and Pasific Europe MiddleEast</td>
<td>Collaboration to accelerate the development of vaccines against emerging infectious diseases</td>
</tr>
<tr>
<td>Global African Swine Fever Disease Research Alliance</td>
<td>Global</td>
<td>Africa Americas Asia and Pasific Europe MiddleEast</td>
<td>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</td>
</tr>
<tr>
<td>WOAH Aquatic Animal Health Standards Commission</td>
<td>Global</td>
<td>Africa Americas Asia and Pasific Europe MiddleEast</td>
<td>Collaboration to ensure the Aquatic animal health code and Manual of Diagnostic Tests for Aquatic Animals reflect current scientific information.</td>
</tr>
<tr>
<td>Global Foot-and-Mouth Disease Research Alliance</td>
<td>Global</td>
<td>Africa Americas Asia and Pasific Europe MiddleEast</td>
<td>A coordinated global alliance of scientists producing evidence and innovation that enables the progressive control and eradication of FMD.</td>
</tr>
<tr>
<td>EVAg</td>
<td>Global</td>
<td>Africa Americas Asia and Pasific Europe MiddleEast</td>
<td>A coordinated global network that mobilises expertise in virology to amplify, characterize, standardize, authenticate, distribute, track, collect viruses and derived products.</td>
</tr>
<tr>
<td>VetBioNet</td>
<td>Global</td>
<td></td>
<td>A network of facilities researching animal and zoonotic diseases in secure facilities. The network aims to standardize protocols, identify</td>
</tr>
</tbody>
</table>
**TOR6: EXPERT CONSULTANTS**

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

<table>
<thead>
<tr>
<th>NAME OF EXPERT</th>
<th>KIND OF CONSULTANCY</th>
<th>SUBJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor Trevor Drew</td>
<td>Meeting and workshop attendance</td>
<td>WOAH Biological Standards Commission, WOAH Scientific Commission for Animal Diseases (SCAD), 89th WOAH General Session.</td>
</tr>
<tr>
<td>Dr. David Williams</td>
<td>Meeting and workshop attendance</td>
<td>- WOAH Standing Group of Experts, ASF meeting Asia-Pacific - WOAH Regional Laboratory Expert Meeting for African Swine Fever in Asia &amp; the Pacific; 02 -04 Nov 2022; Geelong Australia. - WOAH Pacific Partners Meeting</td>
</tr>
<tr>
<td>Dr. Frank Wong</td>
<td>Meeting and workshop attendance</td>
<td>- WOAH PVS Lab expert working meeting: Tools for remote missions - WOAH PVS Sustainable Laboratories Thailand Mission Meeting - WOAH Regional Expert Group meeting for diseases of poultry in Asian and Pacific region; 31 Oct 2022 - 2 Nov 2022; Geelong Australia.</td>
</tr>
<tr>
<td>Dr. Gemma Clark</td>
<td>Meeting and workshop attendance</td>
<td>- WOAH AHG on Sustainable Laboratories meeting (PVS Cohort dashboards) - WOAH Regional Proficiency Testing Provider Training</td>
</tr>
<tr>
<td>Dr. Matt Neave</td>
<td>Meeting and workshop attendance</td>
<td>WOAH Regional Laboratory Expert Meeting for African Swine Fever in Asia &amp; the Pacific; 02 -04 Nov 2022; Geelong Australia</td>
</tr>
</tbody>
</table>

**TOR7: SCIENTIFIC AND TECHNICAL TRAINING**

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

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOAH, to personnel from WOAH Members?  
Yes
a) Technical visit: 22  
b) Seminars: 0  
c) Hands-on training courses: 139  
d) Internships (>1 month): 0

<table>
<thead>
<tr>
<th>TYPE OF TECHNICAL TRAINING PROVIDED (A, B, C OR D)</th>
<th>CONTENT</th>
<th>COUNTRY OF ORIGIN OF THE EXPERT(S) PROVIDED WITH TRAINING</th>
<th>NO. PARTICIPANTS FROM THE CORRESPONDING COUNTRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Biosafety training, Risk assessments, spills training and chemical safety, Yogyakarta, Indonesia, 12-16 September 2022</td>
<td>Indonesia</td>
<td>22</td>
</tr>
<tr>
<td>C</td>
<td>Regional Proficiency Testing Provider Training, 21-25 February 2022 (Virtual)</td>
<td>China, Vietnam, Thailand, Malaysia, South Korea, Japan, Indonesia, India</td>
<td>14</td>
</tr>
<tr>
<td>C</td>
<td>NGS Wet-Lab Protocols for RNA (AIV) and DNA (ASF) viruses Workshop, 21-23 March 2022 (Virtual)</td>
<td>Indonesia</td>
<td>13</td>
</tr>
<tr>
<td>C</td>
<td>Biosafety Leadership Training, April – December 2022 (Monthly Engagement) (Virtual)</td>
<td>Thailand, Laos, Vietnam, Cambodia, Malaysia, Indonesia, Papua New Guinea, Singapore, Timor Leste</td>
<td>19</td>
</tr>
<tr>
<td>C</td>
<td>Laboratory Refresher Proficiency Test Workshop, Denpasar, Indonesia 4 – 6 July 2022</td>
<td>Indonesia</td>
<td>20</td>
</tr>
<tr>
<td>C</td>
<td>Refresher Proficiency Test Workshop, Yogyakarta, Indonesia, 26-27 July 2022</td>
<td>Indonesia</td>
<td>16</td>
</tr>
<tr>
<td>C</td>
<td>Validation and Verification Workshop, Yogyakarta, Indonesia, 12-16 September 2022</td>
<td>Indonesia</td>
<td>22</td>
</tr>
<tr>
<td>C</td>
<td>Biosafety training, Risk assessments, spills training and chemical safety, Yogyakarta, Indonesia, 12-16 September 2022</td>
<td>Indonesia</td>
<td>22</td>
</tr>
<tr>
<td>C</td>
<td>Pathology and Histology Training, Geelong, Australia, 24 October -4 November 2022</td>
<td>Indonesia</td>
<td>2</td>
</tr>
</tbody>
</table>
### TOR8: 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 WOAH?
No

### TOR9: DATA AND INFORMATION DISSEMINATION

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

a) Articles published in peer-reviewed journals:


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**WOAH Collaborative Centre Reports Activities 2022**


Gofton, A.W., Blasdell, K.R., Taylor, C., Banks, P.B., Michie, M., Roy-Dufresne, E., Poldy, J, Wang, J, Dunn, M., Tachedjian, M., Smith, I.,


Agus Sunarto, Jessica Grimm, Kenneth A. McColl, Ellen Ariel, Kiran Krishnankutty Nair, Serge Corbeil, Tatia Hardaker, Mark Tizard, Tanja Strive, Bonnie Holmes, Bioprospecting for biological control agents for invasive tilapia in Australia, Biological Control, Volume 174, 2022, 105020, ISSN 1049-9644,


b) International conferences:

Durr, P.A. and Graham, K. “Big challenges with using Big data for animal health surveillance”. 4th International Conference on Animal Health Surveillance; 3-5 May 2022, Copenhagen, Denmark,

Williams, David. “Arbovirus Surveillance in Australia: Pivoting to JEV” The symposium Japanese Encephalitis Virus: Emerging Global Threat to Humans & Livestock; October 17th – 19th 2022; University of Georgia, USA; Delivered online.

Williams, David. Combating African swine fever in the Pacific. In: 6th Congress of The European Association of Veterinary Laboratory Diagnosticians (EAVLD) 24-26 Oct 2022; Seville Spain; Delivered online

Stanger, Kelly. Lumpy Skin Disease - The Australian perspective. LSD workshop (Bill and Melinda Gates Foundation and GALVMed sponsored event); 17 Nov 2022; Dubai UAE

Singanallur Balasubramani, Nagendra. ‘WO(AH)W Gold is not precious anymore in diagnostic test development’. In: Global Foot and
Mouth Disease Research Alliance (GFRA) Webinar Series: 28 Sep 2022; Online Webinar


Riddell, Shane. SARS-CoV-2 decontamination - is it plane and simple? In: Swiss Biosafety Network 16th Applied Biosafety Meeting; 25-26 August 2022. Geneva, Switzerland

Vasan, Vasan. Some Perspectives on Data Science and Coronaviruses. In: FDA professional development webinar; 09 Jun 2022 USA Online Webinar


Wong Frank, Pavade Gounalan, and Coggon Amelia. Overview of the global and regional networks, data bases and information sharing platforms, including WAHIS and OFFLU. In: WOAH Regional Expert Group meeting for diseases of poultry in Asian and Pacific region; 31 Oct 2022 - 2 Nov 2022; Geelong Australia.


Williams, David. PoC testing guide. WOAH Regional Laboratory Expert Meeting for African Swine Fever in Asia & the Pacific; 02 -04 Nov 2022; Geelong Australia.

Williams, David. Updating the Asia-Pacific laboratory algorithm. WOAH Regional Laboratory Expert Meeting for African Swine Fever in Asia & the Pacific; 02 -04 Nov 2022; Geelong Australia.


Pharo, Elizabeth. Using ex vivo human lung models to characterise the innate immune responses of normal, asthma and COPD donors to SARS-CoV-2 variants of concern. In: CSIRO-FDA-UK-ICN Cutting Edge Virtual Symposium on Coronaviruses with “Disease X” Potential; 28-30 Sep 2022; Delivered Online.

Paulley, J.T. Balancing the Ongoing Operation of an Ageing Biocontainment Facility with Increasing Regulatory Oversight and Evolving Standards. In: BSL4ZNet International Conference Session 2; 16 Sep 2022; Online webinar.

Howard, Rod. Preparing for the ACDP Part Life Refit. International Veterinary Biosafety Workgroup Webinar; 21-22 Sep 2022; Online Webinar
Williams, David. ACIAR One Health Surveillance project overview. LabCap PNG Project Launch and Inception Workshop; 29-30 Mar 2022; Papua New Guinea


Williams, David. Update on capacity building activities in the region. In: OIE Pacific Partners Meeting; 31 May 2022; Delivered Online.


Drew, Trevor W. HP PRRS. In: BaseCamp Asia Training Programme, Boehringer Ingelheim GmbH. Manila, Philippines, 13-24 March 2022; Delivered Online.


Drew, Trevor W. Disease emergence – the drivers and the dogma. In: BSL4ZNet Cutting Edge Symposium on Coronaviruses with Disease X potential. 27-30 September 2022; Delivered Online.

Drew, Trevor W. Dual use and gain of function: The responsibilities of scientists and institutions. In: BSL4Znet International Conference Session 4 – Advances in Biosafety, Biosecurity & Surveillance. 14 October 2022; Delivered Online.


Wong, Frank. PCR related activities in OFFLU 2021/22. In: 12th WHO Working Group Meeting for the Molecular Detection and Subtyping of Influenza Viruses and the use of Next Generation Sequencing (NGS) in GISRS. Istanbul, Turkey, 13-15 June 2022; Delivered Online.


Amelia Coggon and Wong, Frank. Overview of the OFFLU Avian Influenza Matching (AIM) activity. In: FAO Regional Consultation on Avian Influenza Surveillance in Asia; 02-04 November 2022; Geelong, Australia.

c) National conferences:
Singanallur Balasubramani, Nagendra. ‘Systems approaches’ in studying host-pathogen interactions. In: The Australasian Society for Microbiology – Veterinary Microbiology special interest group; 06 Sep 2022; Online Webinar.

Jansen van Vuren, Petrus. Developing a ‘warm’ vaccine to combat SARS-CoV-2 variants of concern and address inequity. In: 9th Australasian Vaccines & Immunotherapeutics Development (AVID) Meeting; 01-04 Apr 2022; Kingscliff, NSW

Edwards, Sarah. Preclinical evaluation at high containment. In: 9th Australasian Vaccines & Immunotherapeutics Development (AVID) Meeting; 01-04 Apr 2022; Kingscliff, NSW

Magor, Joshua; Directional Airflow Versus Differential Pressures – A cautionary tale of misdirection. In: Association of Biosafety for Australia and New Zealand (ABSANZ); 29 Jun 2022 - 01 Jul 2022; Adelaide SA.

Moody, Nick. Regulatory compliance – a science perspective. In: Association of Biosafety for Australia and New Zealand (ABSANZ); 29 Jun 2022 - 01 Jul 2022; Adelaide SA.

Paulley, J.T. 40 Years in the Making; ACDP’s Purpose Built Biocontainment Facility and Lumpy Skin Disease Virus. In: Association of Biosafety for Australia and New Zealand (ABSANZ) Annual General Meeting. 9 Nov 2022; Presented Online.

Taylor, Grace. Establishing a husbandry model for the common ring tail possum. In: Australian New Zealand Laboratory Animal Association (ANZLAA); 21-23 Sep 2022; Campbelltown, Sydney, NSW.

Soldani, Elisha. COVID Transmission in Ferrets Conducted at BSL4. In: Australian New Zealand Laboratory Animal Association (ANZLAA); 21-23 Sep 2022; Campbelltown, Sydney, NSW.


Sunarto, Agus. Fish Viruses: Friend or Foe? In: Royal Society of Victoria, Melbourne 16 Sep 2022; Melbourne VIC.

Sunarto, Agus. Tilapia Biocontrol: Bioprospecting and Evaluation. In: Centre for Invasive Species Solutions (CISS) conference “CISS Celebrations”; 25-26th October 2022; Canberra ACT.

Grimaldi, Sheree. Non-surgical and reversible chemical castration to control oestrous and behavioural adversities in ferret colonies. In: Australian New Zealand Laboratory Animal Association (ANZLAA); 21-23 Sep 2022; Campbelltown, Sydney, NSW.

Waugh, Caryll. Proficiency testing and its role in supporting laboratory capability. In: DAFF Chief Veterinary Office Forum; 19 Aug 2022; Online Webinar

Waugh, Caryll. PT and collaboration in supporting laboratory capability and FMD preparedness. In Thermo-Fisher API (Asia Pacific Japan) Animal Health; 15 Nov 2022; Online Webinar.

McNabb, Leanne; Di Rubbo, Antonio; Cooke, Julie; Bowden, Tim. An IgM antibody capture ELISA for Japanese Encephalitis virus (JEV) in horses. In: Australian Association of Veterinary Laboratory Diagnosticians Conference (AAVLD); 17-18 Nov 2022; Launceston, Tasmania. Peter Kirkland; 2022.

Reeves, Andrea. Diagnosis of Bovine Tuberculosis in the laboratory at CSIRO-ACDP. In: Australian Association of Veterinary Laboratory Diagnosticians Conference (AAVLD); 17-18 Oct 2022; Launceston TAS.
Giles, Michelle. Verification of an African Horse Sickness (AHS) Commercial ELISA for AHS Group Antibody Detection. In: Australian Association of Veterinary Laboratory Diagnosticians Conference (AAVLD); 17-18 Oct 2022; Launceston TAS.

Di Rubbo Antonio. A Simplified Approach to Serodiagnosis of Zoonotic Flaviviruses. In: Australian Association of Veterinary Laboratory Diagnosis (AAVLD); 17-18 Oct 2022; Launceston TAS.

Klein, Reuben. mRNA-specific real-time PCR detection of Cyprinid Herpesvirus 3; In: Australian Association of Veterinary Laboratory Diagnosis (AAVLD); 17-18 Oct 2022; Launceston TAS.

Lynch, Stacey. African swine fever virus preparedness: Verifying sample collection workflows and establishing virus isolation methods. In: Australian Association of Veterinary Laboratory Diagnosis (AAVLD); 17-18 Oct 2022; Launceston TAS.

Barr, Jenn. Detection of filovirus reactive antibodies in Australian bat species. In: Australasian Virology Society AVS11 2022 Meeting; 05-08 Dec 2022; Gold Coast QLD.

Edwards, Sarah. Neuropathogenesis: Mousing around with the henipaviruses. In: Australasian Virology Society AVS11 2022 Meeting; 05-08 Dec 2022; Gold Coast QLD.

Donnelly, Camilla. Structural characterisation of the lyssavirus N0P complex reveals a highly conserved interface. Australasian Virology Society AVS11 2022 Meeting; 05-08 Dec 2022; Gold Coast QLD.

Ford, Mark. Diagnostic Sampling and Testing. Emergency Animal Diseases (EAD) conference organised by the Australian Cattle Veterinarians branch of the Australian Veterinary Association; 01 Dec 2022; Canberra ACT.

Lopez-Denman, Adam. REAPER: mosquito in vivo virus targeting to control viral transmission. Victorian infection and immunity network symposium; 16 Nov 2022; Monash Institute of Pharmaceutical Sciences (MIPS) VIC.


Williams, David. Japanese encephalitis Outbreak in Australia 2022. In: 2nd Australian Biosecurity Symposium; 03-05 May 2022, Gold Coast QLD.

Williams, David. JEV Monitoring and Surveillance: mosquitoes and vertebrate hosts. CSIRO Health and Biosecurity Japanese encephalitis workshop; 20 Apr 2022; Geelong VIC.

Williams, David. JEV in Australia. In: CSIRO Health and Biosecurity Japanese encephalitis workshop; 20 Apr 2022; Geelong VIC.


Eagles, D. Future Focused: How science and technology are paving the way forward. Keynote Presentation. In: 2nd Australian Biosecurity Symposium; 03-05 May 2022, Gold Coast QLD.

Eagles, D. Henipavirus Outbreak Investigation in the Philippines – Perspectives from the Field and the Laboratory. In: Foreign Animal Disease and Outbreak Preparedness Workshop, 20 May 2022; Sydney NSW.


D) Other (Provide website address or link to appropriate information):
11. What have you done in the past year to advance your area of focus, e.g. updated technology?

12. Additional comments regarding your report: