World Organisation for Animal Health

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WOAH Collaborative Centre Reports Activities 2025

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CENTRE INFORMATION

***Title of WOAH Collaborating Centre**	Veterinary Epidemiology and Public Health
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***Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):**	Dr. WANG Youming, Director; Professor Naomi Cogger
***Name of the writer:**	LIU Ailing,Xu Quangang, ZHANG Yanhai, Naomi Coggerr

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 WOAH

Category	Title of activity	Scope
Disease control (true)	Research on Prevention and Control Strategies for Major Animal Diseases	Mainland, China
Training, capacity building (true)	8th Cohort of China Field Epidemiology Training Program for Veterinarians (CFETPV)-Module 1,2 and 3.	26 trainees from 15 provincial & municipal ACDC.
Zoonoses (true)	Survey on Bovine & Ovine Brucellosis and Bovine Tuberculosis	12 provinces in China
Avian diseases (true)	Survey on Major Poultry Diseases (AI, ND, AIB)	16 provinces in China

Training, capacity building (true)	Advanced Training on Veterinary Epidemiology for Zoonosis Prevention and Control	50 participants from 31 provinces nationwide
Epidemiology, surveillance, risk assessment, (true)	Surveillance for Exotic Animal Diseases (4 Exotic Diseases: AHS, BSE, etc.)	Border provinces in China
Epidemiology, surveillance, risk assessment, (true)	Annual Epidemiological Survey on Major Animal Diseases (9 Surveys: FMD, ASF, etc.)	Mainland, China.
Epidemiology, surveillance, risk assessment, (true)	Investigation on the Health Status and Value Chain of Meat Ducks	8 provinces in China
Epidemiology, surveillance, risk assessment, (true)	Survey on the Health Status of Broilers	4 provinces in China
Epidemiology, surveillance, risk assessment, (true)	Evaluation on Meat Quality Inspection Capabilities of Designated Pig Slaughter Enterprises	Mainland, China
Disease control (true)	African Swine Fever Outbreak Investigation	1 Autonomous Region in China
Zoonoses (true)	Production of Maple Leaves Turn Red – A Microfilm on Bovine & Ovine Brucellosis Prevention and Control	7 provinces in China
Zoonoses (true)	Evaluation of the Efficacy of Brucellosis Prevention and Control in Cattle and Sheep	10 provinces in China
Disease control (true)	High Level Advisory Group (HLAG), Ministry for Primary Industries.	Government advisory role on the control of High Pathogenicity Avian Influenza, Prof David Hayman
Epidemiology, surveillance, risk assessment, modelling (true)	Assessment of FMD virus serotype Asia 1 status in SEACFMD countries	To assess whether the absence of foot-and-mouth disease virus (FMDV) serotype Asia 1 reports within the Southeast Asia (SEA) region since 2017 indicates regional freedom from Asia 1 or reflects gaps in the existing surveillance systems.
Epidemiology, surveillance, risk assessment,	Estimating under-diagnosis and under-reporting of	Surveys of healthy workers (MAT) and febrile

modelling (true)	leptospirosis in New Zealand – a disease pyramid model.	patients (PCR) in New Zealand
Epidemiology, surveillance, risk assessment, modelling (true)	Investigating Leptospira in the Te Henga ecosystem: A One Health approach	Investigate the exposure to, and the presence and diversity of Leptospira spp. in the Te Henga ecosystem.
Epidemiology, surveillance, risk assessment, modelling (true)	Consultant for Filipino bat pathogen research	Assisted with the analysis (modelling) for an international collaborative project studying pathogens carried by bats in the Philippines. Participating institutions
Epidemiology, surveillance, assessment, modelling (true)	Scientific Advisory Board member for PANDASIA: Preventing future pandemics	Participated in the expert panel for questionnaire validation and presented at an in-person project meeting. The primary goal of PANDASIA is to investigate potential pandemic drivers along nature-rural-urban gradients through a comprehensive collection of social and biological data and predictive modelling of zoonotic spillover rates and disease emergence in high-risk settings in Thailand.
Epidemiology, surveillance, assessment, modelling (true)	Update on the Pan American Health Organization's Leptospirosis surveillance guidelines	As steering committee member of the Global Leptospirosis Network (GLEAN) developed a document with updated surveillance guidelines for Latin America and the Caribbean.
Zoonosis (true)	Collaboration with Conservation Through Public Health, Uganda	On-going collaboration to research links between human, domestic and wild animal health: Examining the cross-over of microorganisms
Epidemiology, surveillance, risk assessment, modelling (true)	Updated FAO's guidelines on animal leptospirosis surveillance	As steering committee member of the Global Leptospirosis Network (GLEAN) completed a leptospirosis chapter for a FAO publication on updated surveillance guidelines.
Training, capacity building (true)	AI for use in veterinary space	Provided three sessions on how to use AI for staff at WOAH. Approximately 45-60 participants for each session
Training, capacity building (true)	International visitor (3 mo) from Sao Paulo State University students	Spatial prioritization of zoonotic risk of rabies virus and applications for public health in Brazil
Training, capacity building (true)	International visitor (1 yr) from Shihezi University, College of Animal Science and Technology, Xinjiang, China	Listeria pathogenicity, immune responses, and host interactions
Training, capacity training (true)	International visitor (1 yr), Jilin University, School of Public Health, Changchun, China	Modeling the Transmission and Control of Emerging Infectious Diseases
Training, capacity building (true)		8 participants from SE Asia

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	Biosecurity Risk Analysis	
Training, capacity building (true)	Applied Epidemiology Training	20 participants from New Zealand, Asia and Middle East
Training, capacity building (true)	Food safety risk analysis	20 participants from new Zealand, Asia and Middle East
Zoonoses (true)	Development and trialing of animal leptospirosis vaccines with the animal vaccine companies for control of the disease in animals and, indirectly, in humans.	Providing laboratory support and expert advice to animal pharmaceutical companies for developing and trialing vaccines for a new leptospiral strain (Pacifica) in New Zealand

TOR 3: HARMONISATION OF STANDARDS

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

Proposal title	Scope/Content	Applicable Area
National Implementation Plan for Major Animal Disease Epidemiological Investigations in 2025	Mainland, China/ 15 Survey Schemes: CSF, PRRS, PPR, Rabies and Other Diseases.	Health Management Animal Production
Technical Specification for Animal Epidemiological Survey work	Mainland, China/Enhance Scientificity and Standardization of National Epidemiological Investigations for Animal Diseases.	Health Management Animal Production
Obtained 7 Software Copyrights covering the Sampling Size Calculation System, Risk Early-warning System, and Data Collection and Storage System.	Mainland, China/These include 4 copyrights for the sampling size calculation system, 2 for the risk early-warning system, and 1 for the poultry transportation data collection and storage system.	Health Management Animal Production
Revisions to: Chapter 1.1.2 of the WOAH Terrestrial Manual (Collection, submission, and storage of diagnostic specimen).	Proposed revisions to Chapter 1.1.2 of the WOAH Terrestrial Manual (Collection, submission, and storage of diagnostic specimen) as part of WOAH Collaborating Centre Network for Wildlife Health activities	Laboratory Expertise

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

No

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

Name of WOAH CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose

WOAH Reference Laboratory for FMD	Lanzhou, China	Asia y el Pacífico	Better understanding the status of FMD to achieve prevention and control.
WOAH Reference Laboratory for ASF	Qingdao, China	Asia y el Pacífico	Better understanding the status of ASF to achieve prevention and control.
WOAH Reference Laboratory for Peste des Petits Ruminants(PPR)	Qingdao, China	Asia y el Pacífico	Better understanding the status of PPR to promote prevention and control.
WOAH Reference Laboratory for Newcastle Disease(ND)	Qingdao, China	Asia y el Pacífico	Better understanding the status of ND to promote prevention and control.
WOAH Reference Laboratory for Avian Influenza	Harbin, China	Asia y el Pacífico	Better understanding the status of AI to promote prevention and control.

TOR 4 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

Name of WOAH CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Murdoch University	Perth/Australia	Asia and Pacific	Training, Technical communication
Leptospirosis Reference Centre, AMC	Amsterdam, Netherlands	Africa Americas Asia and Pacific Europe Middle East	Participation in the international leptospirosis MAT testing ring trial to harmonise serological testing (run by the WOAH-accredited Leptospirosis Reference Laboratory in Amsterdam (AMC).

TOR 6: EXPERT CONSULTANTS

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

Yes

Name of expert	Kind of consultancy	Subject

Wang Youming	Presentation at SEACFMD Epidemiology Network Meeting	FMD epidemiology activities in China
Zhang Yanhai, Xu Quangang, Liu Ailing	Virtual SEACFMD Steering Committee Meeting	Revisions and Recommendations for the SEACFMD Roadmap 2026 – 2030
Xu Quangang	Presentation at 27th SEACFMD National Coordinators Meeting	Key achievements and lessons learned from implementing the SEACFMD Roadmap 2021–2025 in China
David Hayman	David Hayman Emerging Diseases Group (WOAH Ad hoc Group on Emerging Diseases and Drivers of Disease Emergence in Animals) Emerging Diseases Group (WOAH Ad hoc Group on Emerging Diseases and Drivers of Disease Emergence in Animals) was established in 2023 to advise the World Organisation for Animal Health (WOAH) on emerging diseases. The group has two functions: a response function where it would support the response to major emerging diseases, and a business-as-usual function, where it would work on addressing gaps, address specific issues referred by WOAH, develop high-level future insights, make recommendations, communicate information, and support WOAH with respect to emerging diseases.	Emerging Diseases Group (WOAH Ad hoc Group on Emerging Diseases and Drivers of Disease Emergence in Animals) was established in 2023 to advise the World Organisation for Animal Health (WOAH) on emerging diseases. The group has two functions: a response function where it would support the response to major emerging diseases, and a business-as-usual function, where it would work on addressing gaps, address specific issues referred by WOAH, develop high-level future insights, make recommendations, communicate information, and support WOAH with respect to emerging diseases.
David Hayman	WOAH Reference Centre Network Meeting, WOAH Headquarters, Paris, 22-23 May	The purpose of this Joint WOAH Reference Centre Network Meeting is to facilitate knowledge exchange and sharing, explore synergies in activities and to provide recommendations and guidance in overcoming shared technical and operational challenges for the diagnosis and surveillance of animal diseases.
David Hayman	WOAH Collaborating Centre Network for Wildlife Health	To support WOAH in improving wildlife health globally and support the implementation of WOAH's wildlife health strategy by contributing to the development and the dissemination of knowledge, sharing of information – including innovation– and expertise at global, regional and national levels.
David Hayman	OHHLEP	The One Health High-Level Expert Panel is the scientific and strategic advisory group to the Quadripartite organizations - the Food and Agriculture Organization of the United Nations (FAO), the United Nations Environment Programme (UNEP), the World Health Organization (WHO) and the World Organisation for Animal Health (WOAH) – in their collaboration on One Health.

TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

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

No

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

No

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 WOAH?

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Yes

National/International	Title of event	Co-organiser	Date	Location	No. Participants
Internationally	SEACFMD Epidemiology Network Meeting	WOAH	2025-05-13	Qingdao, China	30
Internationally	Virtual SEACFMD Steering Committee Meeting	WOAH	2025-05-20	online	30
Internationally	27th SEACFMD National Coordinators Meeting	WOAH	2025-08-20	Luang Prabang, Lao PDR	30
Internationally	WOAH Collaborating Centre for Wildlife Health (WildNet) workshop	Steve Unwin (co-chair), David Hayman (co-chair), Dharma Shetty (WOAH), Antonio Jesús Fernández Rodríguez	2025-06-25	Gran Canaria, Spain	21

TOR 9: 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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Massey Publications

1. Azevedo, T. S., Nisa, S., Littlejohn, S., & Muylaert, R. L. (2025). Leptospirosis in Campinas, Brazil: The interplay between drainage, impermeable areas, and social vulnerability. PLoS Negl Trop Dis, 19(9), e0013560. https://doi.org/10.1371/journal.pntd.0013560
2. Benschop, J., Collins Emerson, J. M., Vallee, E., Prinsen, G., Yeung, P., Wright, J., Littlejohn, S., Douwes, J., Fayaz, A., Marshall, J. C., Baker, M. G., Quin, T., & Nisa, S. (2025). Investigating animals and environments in contact with leptospirosis patients in Aotearoa New Zealand reveals complex exposure pathways. N Z Vet J, 73(3), 195–203. https://doi.org/10.1080/00480169.2025.2459639
3. Binney, B. M., Gias, E., Foxwell, J., Little, A., Biggs, P. J., French, N., Lambert, C., Ha, H. J., Carter, G. P., Gyuranecz, M., Pardon, B., De Vliegher, S., Boyen, F., Bokma, J., Kromker, V., Wente, N., Mahony, T. J., Gibson, J. S., Barnes, T. S., et al. (2025). Genomic analysis of the 2017 Aotearoa New Zealand outbreak of Mycoplasma bovis. Front Microbiol, 16, 1600146.
4. Brett, P., Lawrence, K. E., Kenyon, P. R., Gedye, K., Fermin, L. M., & Pomroy, W. (2025). Accuracy of morphological techniques for identifying Lucilia species. N Z Vet J, 1–8.
5. Burgess, A., Tiwari, H., Green, A., Toribio, J. A., Vost, M., Cogger, N., et al. (2025). Implementing online training for "Animal Disease Detectives". J Vet Med Educ.
6. Carlson, C. J., Trisos, C. H., Oppenheim, B., et al. (2025). Pathways to an Intergovernmental Panel on Pandemics. Lancet Microbe, 6(10), 101178.
7. De Grey, S. J., Riley, C. B., Thompson, K. R., Squance, H. E., & Cogger, N. (2025). Psychological impacts on animal disaster responders. N Z Vet J.
8. French, N. P., Maxwell, H., Baker, M. G., et al. (2025). Preparing for the next pandemic. Lancet Reg Health West Pac, 56, 101525.
9. French, R. K., Waller, S. J., Wierenga, J. R., et al. (2025). Extraintestinal pathogenic bacteria in kākāpō cloacitis. Mol Ecol, 34(24), e17761.
10. Gedye, K., Kulkarni, P., Soon, X. Q., et al. (2025). Chlamydia psittaci ST27 in zoo birds. N Z Vet J, 73(5), 352–359.
11. Gordon, S., Janicke, H., Weston, J., et al. (2025). Veterinary students' perspectives on professionalism. Vet Rec.
12. Gordon, S., Janicke, H., Weston, J., et al. (2025). Veterinary students' critique of professionalism teaching. Vet Rec.
13. Grana Baumgartner, A., Dukkipati, V. S. R., Biggs, P. J., et al. (2025). Heritability of skin traits in sheep. J Anim Sci, 103.
14. Gray, H. A., Biggs, P. J., Midwinter, A. C., et al. (2025). ESBL producing E. coli in humans and rivers. Microb Genom, 11(1).
15. Haslin, E., Herath, H., Pain, S. J., et al. (2025). Growth rate and mammary gene expression in ewes. J Anim Sci, 103.
16. Hayman, D. T. S., Koopmans, M. P. G., Cunningham, A. A., et al. (2025). Mpox as a One Health case study. One Health, 20, 101059.
17. Heydari, A., Kim, N. D., Biggs, P. J., et al. (2025). Antibiotic and heavy metal resistance in soil bacteria. Antibiotics, 14(2).
18. Horpiencharoen, W., Marshall, J. C., Muylaert, R. L., et al. (2025). Spatial risk of pathogen transmission in Thailand. Conserv Sci Pract, 7(8).
19. Hurri, E., Compton, C. W. R., Alvasen, K., & Traven, M. (2025). Mycoplasma bovis antibody patterns in dairy herds. J Dairy Sci, 108(10), 11303–11316.
20. Jafari Gh, A., Laven, R., Khaloubagheri, F., et al. (2025). Dairy cattle welfare in Iran (management based). Animals, 15(20), 3001.
21. Jafari Gh, A., Laven, R., Khaloubagheri, F., et al. (2025). Dairy cattle welfare in Iran (animal based). Animals, 15(3), 359.
22. Kingsbury, J. M., French, N., Midwinter, A., et al. (2025). Campylobacter reservoirs on a broiler farm. Appl Environ Microbiol, 91(9).
23. Kingsbury, J. M., Midwinter, A., Mills, J., et al. (2025). Validation of RCF method for Campylobacter. J Microbiol Methods, 236, 107207.
24. Knox, M. A., Almeida, V., Kalema Zikusoka, G., et al. (2025). Mitochondrial diversity of mountain gorillas. Genome Biol, 26(1), 405.
25. Lam, C. T., Ivanek, R., Wada, M., et al. (2025). Modelling Salmonid Rickettsial Septicaemia. Prev Vet Med, 243, 106595.
26. Lambertucci, S. A., Frantzeskaki, N., Villasante, S., et al. (2025). Supporting researchers' engagement in science–policy bodies. Nat Sustain, 8(9), 982–985.
27. Lawrence, K. E., Gedye, K., Carvalho, L., et al. (2025). Theileria orientalis Ikeda in red deer. N Z Vet J, 73(1), 41–45.
28. Letho, S., & Compton, C. (2025). FMD epidemiology in Bhutan. BMC Vet Res, 21(1), 519.
29. Mahato, R. K., Ghimire, U., Bajracharya, B., et al. (2025). Leprosy healthcare performance in Nepal. BMC Health Serv Res, 25(1), 177.
30. Morris, R. S., & Wada, M. (2025). Climate change and zoonotic disease emergence. Zoonoses Public Health, 72(7), 587–611.
31. Munday, J. S., French, A. F., Broughton, L., et al. (2025). Novel feline papillomavirus. Animals, 15(10).

32. *Muylaert, R. L., Wilkinson, D. A., Dwiyanti, E. I., & Hayman, D. T. S. (2025). Upscaling effects on disease emergence risk. Sci Rep, 15(1), 37504.*
33. *Nesaraj, J., Grinberg, A., Laven, R., et al. (2025). Host adaptation of Staphylococcus aureus. Environ Microbiol Rep, 17(3).*
34. *Nisa, S., Ortolani, E., Vallee, E., et al. (2025). Case control study of leptospirosis in NZ. Epidemiol Infect, 153, e67.*
35. *Northover, S., Hill, K., Cogger, N., & Isaksen, K. (2025). Chemotherapy use in small animal oncology. N Z Vet J, 73(6), 414–423.*
36. *Odom, T. F., Riley, C. B., Benschop, J., & Hill, K. E. (2025). Medication compliance in cat owners. J Vet Intern Med, 39(1).*
37. *Ogbuigwe, P., Biggs, P. J., Garcia Ramirez, J. C., et al. (2025). Cryptosporidiosis outbreaks via metabarcoding. J Infect, 90(2), 106427.*
38. *Parncutt, J., Johnson, L. R., Subharat, S., et al. (2025). Intranasal maropitant in shelter cats. J Feline Med Surg, 27(2).*
39. *Pepin, K. M., Carlisle, K., Chipman, R. B., et al. (2025). Practitioner perspectives on One Health models. Humanit Soc Sci Commun, 12(1).*
40. *Powers, G. J., Lucas, A., Isaksen, K. E., et al. (2025). Surgical indications in search and rescue dogs. J Am Vet Med Assoc, 263(2).*
41. *Rekedal, M. S., Norona, M. G., Cafe, J. A. P., et al. (2025). Nipah virus seroprevalence in bats. Emerg Microbes Infect, 14(1).*
42. *Rulli, M. C., D'Odorico, P., Galli, N., et al. (2025). Land use change and infectious disease emergence. Rev Geophys, 63(2).*
43. *Sadler, E., Vallee, E., Watts, J., & Wada, M. (2025). Rain, flooding, and leptospirosis in NZ livestock. N Z Vet J.*
44. *Soon, X. Q., Gedye, K., Benschop, J., & Gartrell, B. (2025). Molecular detection of Chlamydia psittaci. Avian Pathol, 54(3).*
45. *Strydom, H., Wright, J., Bromhead, C., et al. (2025). Temporal reconstruction of a Salmonella Enteritidis ST11 outbreak in NZ (with corrigendum). Microb Genom, 11(10).*
46. *Sujau, M., Wada, M., Vallée, E., et al. (2025). LLM based ranking for disease modelling. Mach Learn Knowl Extr, 7(2).*
47. *Tana, T., Wada, M., Benschop, J., & Vallee, E. (2025). Rainfall and human leptospirosis in NZ. Epidemiol Infect, 153, e112.*
48. *Tshokey, T., Ko, A. I., Currie, B. J., et al. (2025). Neglected bacterial zoonoses. PLoS Negl Trop Dis, 19(1).*
49. *Wada, M., Han, J. H., Purevsuren, B., et al. (2025). Probability of freedom from FMD Asia 1. Prev Vet Med, 244, 106663.*
50. *Wada, M., Sagarasaeranee, O., Cogger, N., et al. (2025). ML prediction of facial eczema risk. N Z Vet J.*
51. *Wichtel, N., Vallee, E., McInnes, K., & Hunter, S. (2025). Post mortem findings in weka. N Z Vet J, 73(2), 77–86.*

CAHEC focused publications

52. *Gao, S., Liu, Y., Wei, X., et al. (2025). Biosafety level of cattle and sheep slaughterhouses. China Animal Quarantine, 42(1), 1–5.*
53. *Liu, P., Liu, L., Tang, B., et al. (2025). Toxoplasma gondii infection status in China. China Animal Quarantine, 42(3), 1–6.*
54. *Yang, H., Liu, H., Xu, Q., et al. (2025). Sheep breeding and circulation characteristics. China Animal Quarantine, 42.*
55. *Tang, H., Yang, H., Liu, H., et al. (2025). STROBE Vet guidelines interpretation. China Animal Quarantine.*
56. *Zhang, H., Li, Y., Lu, F., et al. (2025). Caprine contagious pleuropneumonia outbreak. China Animal Quarantine.*
57. *Ding, M., Tian, J., Zhu, W., et al. (2025). Goat value chain analysis. China Animal Quarantine.*
58. *Dai, M., Li, C., Yang, H., et al. (2025). African horse sickness risk via imports. Anim Husb Vet Med.*
59. *Liu, H., Zeng, B., Yang, H., et al. (2025). Beef cattle value chain analysis. China Animal Quarantine.*
60. *Meixia, D., Ying, Y., Hao, T., et al. (2025). Cross border cattle movement and TADs. Transbound Emerg Dis.*
61. *Xue, J., Xie, Y., Wang, X., et al. (2025). ASF risk in large scale pig farms. China Animal Quarantine.*
62. *Yu, J., Gao, S., Xu, J., et al. (2025). African swine fever vaccine research. J Integr Agric.*
63. *Wang, B., Gao, S., Liu, A., et al. (2025). Sheep slaughter survey in China. China Animal Quarantine.*
64. *Yu, J., Wang, X., Zuo, Y., et al. (2025). ASFV interference with innate immunity. China Animal Quarantine.*
65. *Sun, X. D., Liu, P., Liu, N., et al. (2025). Brucellosis and ASF policy comparison. China Animal Quarantine.*
66. *Sun, X. D., Liu, P., Liu, N., et al. (2025). Involvement theory in brucellosis publicity. China Animal Quarantine.*
67. *Liu, P., Yang, H. L., Sun, X. D., et al. (2025). Brucellosis KAP survey in Jilin. China Animal Quarantine.*
68. *Zheng, M. J., Chen, F., Zhang, W. Q., et al. (2025). Brucellosis risk factors case control study. China Animal Quarantine.*
69. *Jiang, L., Ye, B., Li, X., et al. (2025). Framing effects in rabies vaccination education. BMC Vet Res.*
70. *Liu, P., Tang, H., Xu, Q. G., et al. (2025). Toxoplasma gondii seroprevalence in pigs: meta analysis. Animal Diseases.*
71. *Development and validation of a triplex ddPCR assay for ASFV, PRV and PPV. (2025).*
72. *Sun, R., Liu, H., Sun, S., et al. (2025). Duplex RAA assay for PCV3 and PCV4. Virol J.*

b) International conferences:

3

1) SEACFMD Epidemiology Network Meeting , 13-15 May 2025, Qingdao China.

2) Virtual SEACFMD Steering Committee Meeting ,20 May 20253. 27th SEACFMD

3) National Coordinators Meeting , 20-22 August 2025, Luang Prabang Lao PDR

c) National conferences:

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1) National annual meeting on epidemiological survey of major animal diseases, 11-12 March, 2025, Qingdao China.

2) Seminar on the Epidemic Situation and Prevention and Control of Major Animal Diseases, 20-21 Nov, 2025, Qingdao China.

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?
Two technical protocols for outbreak investigations and routine epidemiological surveys have been developed, with a view to enhancing the scientific validity and regulatory compliance of epidemiological survey activities.

12. Additional comments regarding your report: