

# WOAH Collaborative Centre Reports Activities 2025

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## CENTRE INFORMATION

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| <b>*Title of WOA Collaborating Centre</b>   | Diagnosis and Control of Animal Diseases and Related Veterinary Product Assessment in Asia   |
| <b>*Address of WOA Collaborating Centre</b>   | (1) National Institute of Animal Health (NIAH), National Agriculture and Food Research Organization (NARO): 3-1-5, Kannondai, Tsukuba, Ibaraki 305-0856, Japan. (2) National Veterinary Assay Laboratory (NVAL): 1-15-1, Tokura, Kokubunji, Tokyo 185-8511, Japan. |
| <b>*Tel:</b>  | (1) +81 29 838 7704, (2) +81-42-321-1861   |
| <b>*E-mail address:</b>   | sh-niah_woahcc@naro.go.jp  |
| <b>Website:</b>   | (1) <a href="http://www.naro.affrc.go.jp/english/index.html">http://www.naro.affrc.go.jp/english/index.html</a> ,  |
| <b>*Name Director of Institute (Responsible Official):</b>  | Dr. Ken Katsuda, Director General  |
| <b>*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):</b> | Dr Kenji Kawashima   |
| <b>*Name of the writer:</b>   | Dr Kenji Kawashima   |

## 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   |
|---|---|---|
| Epidemiology, surveillance, risk assessment, (true) | Meeting of the WOA Biological Standards Commission, Paris, 3-7 February, 2025 | Dr. KAWAJI Satoko participated as an expert of a member of WOA Biological Standards Commission. |

## 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     |
|---|--|---------------------|
| Revision of the VICH GLs concerning studies to evaluate the safety of residues of veterinary drugs in human food. | To revise the VICH GL23R (genotoxicity testing) To revise the VICH GL22 (reproduction studies) | Veterinary Products |

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| Development or revision of the VICH GLs concerning studies to evaluate the metabolism and residue kinetics of veterinary drugs in food-producing animals/species. | To revise the VICH GL49R (guidelines for the validation of analytical methods used in residue depletion studies)   | Veterinary Products |
| Development of VICH GLs concerning testing of biologicals.  | To develop the new VICH GL (test on the presence of extraneous viruses in veterinary vaccines) To develop the new VICH GL (test on safety evaluation of biotechnology- derived/biological products) To develop the new VICH GL (transition to in vitro methods for batch potency tests in veterinary immunologicals) |                     |
| Development of VICH GL concerning combination products.   | To develop the new VICH GL (General GL on Pharmaceutical Combination Products)   | Veterinary Products |
| Development of VICH GL concerning waiving on bioequivalence testing.  | To develop the new VICH GL   | Veterinary Products |
| Development of VICH GL concerning stability on medicated premixes.  | To develop the VICH GL8R   | Veterinary Products |
| Development of VICH GL concerning quality on GMP for active pharmaceutical ingredients.   | To develop the new VICH GL   | Veterinary Products |
| Development of VICH GL for pharmaceutical development.  | To develop the new VICH GL   | Veterinary Products |

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

No

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

Yes

| Name of WOA?H CC/RL/other organisation(s)                 | Location | Region of networking Centre | Purpose   |
|---|----------|-----------------------------|---|
| National Institute of Veterinary Research (NIVR), Vietnam | Vitnam   | Asia y el Pacifico          | Collaborative research on surveillance, etiology, diagnosis, prevention, and control of viral infections of livestock importance in Vietnam |
| Polish National Veterinary Research Institute (PIWet-PIB) | Poland   | Europa                      | Collaborative research on African swine fever, highly pathogenic avian influenza, and transmissible spongiform encephalopathy               |
|   |          |                             |   |

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|---|-----------|--------------------|--|
| Veterinary Research Institute Council of Agriculture (VRI), Taiwan  | Taiwan    | Asia y el Pacífico | Collaborative research on surveillance, diagnosis and control of transboundary animal diseases including foot-and-mouth disease, African swine fever, swine fever, highly pathogenic avian influenza, and arbovirus infections     |
| State Central Veterinary Laboratory, Mongolia   | Mongolia  | Asia y el Pacífico | Technological cooperation, information exchange, and interchange of researchers to promote research on transboundary animal diseases including avian influenza, foot-and-mouth disease, African swine fever and lumpy skin disease |
| Animal and Plant Quarantine Agency of the Ministry of Agriculture, Food and Rural Affairs of the Republic of Korea (MAFRA) ("APQA") | Korea     | Asia y el Pacífico | Development of the research cooperation in the field of avian influenza, foot-and-mouth disease, African swine fever and arbovirus infections  |
| Friedrich-Loeffler-Institute (FLI), Germany   | Germany   | Europa             | Exchange of information of epidemiology and etiology of highly pathogenic avian influenza in wild birds and poultry, and cooperative research on development and evaluation of diagnostic techniques                               |
| National Institute of Veterinary Research (NIVR), Vietnam   | Vietnam   | Asia y el Pacífico | Field tests of diagnostic tools for African swine fever and investigation of its prevalence in Vietnam   |
| Regional Reference Laboratory for Foot and Mouth Disease in Southeast Asia (RRL)  | Thailand  | Asia y el Pacífico | Conducting surveys and research to contribute to the development of smart agriculture by assisting in the establishment of "anti-epidemic measures against persistently FMDV-infected cloven-hoofed livestock" in Thailand         |
| The University of Melbourne   | Australia | Asia y el Pacífico | Joint research on mathematical modelling for the transmission dynamics of lumpy skin disease and other priority livestock infectious diseases  |
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| National Institute of Infectious Diseases        | Japan | Asia y el Pacífico | Development of One Health Surveillance                                      |
| Animal and Plant Quarantine Agency (APQA), Korea | Korea | Asia y el Pacífico | Facilitate the exchange of information on AMR training for Asian countries. |

## TOR 4 AND 5: NETWORKING AND COLLABORATION

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

Yes

| Name of WOAHP CC/RL/other organisation(s)                | Location | Region of networking Centre | Purpose  |
|--|----------|-----------------------------|--|
| Equine Research Institute, Japan Racing Association (RL) | Japan    | Asia and Pacific            | Cooperation for proficiency testing by interlaboratory comparison and for diagnosis of equine encephalomyelitis              |
| Research center for food safety (University of Tokyo)    | Japan    | Asia and Pacific            | To deepen the analysis of antimicrobial usage pattern in the field   |
| Hokkaido University                                      | Japan    | Asia and Pacific            | Cooperation for proficiency testing by interlaboratory comparison, and research on avian influenza and classical swine fever |

## 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. KAWAJI Satoko   | WOAHP Biological Standards Commission   | Member         |
| Dr. YANASE Tohru    | WOAHP Regional Resource Persons about arthropod vector surveillance and control | Member         |
| Dr. KOKUHO Takehiro | FAO-WOAHP Rinderpest Holding Facility, Category A                               | Contact Person |
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| Dr. TAKAGI Michihiro   | FAO-WOAH Rinderpest Holding Facility, Category B | Contact Person |
| Dr. IWAMARU Yoshifumi  | WOAH Reference Laboratory, BSE                   |                |
| Dr. FUKAI Katsuhiko  | WOAH Reference Laboratory, CSF                   |                |
| Dr. MINE Junki   | WOAH Reference Laboratory, Swine Influenza       |                |
| Dr. KOKUHO Takehiro  | WOAH Reference Laboratory, Rinderpest            |                |
| Dr. SEKIGUCHI Hideto, Dr. KAWANISHI Michiko, Dr. MATSUDA Mari, Dr. HOSOI Yuta, Dr. HARADA Saki, Dr. KUBO Maika | WOAHRRAP Experts on AMR monitoring               | Member         |
| Dr. IWAMOTO Shoko, Dr. EGUCHI Kaoru  | VICH Steering Committee                          | Member         |
| Dr. OCHIAI Mariko  | VICH Steering Committee                          | Coordinator    |
| Dr. SATO Kota  | VICH Biologicals Expert Working Group            | Chairperson    |
| Dr. YAMASHITA Maiko  | VICH Biologicals Expert Working Group            | Member         |
| Dr. OGATA Tomoko   | VICH Quality Expert Working Group                | Chairperson    |
| Ms. AKAMA Ryoko Dr. EGUCHI Kaoru   | VICH Quality Expert Working Group                | Member         |
| Dr. OGINO Tomoe(-September) Dr. MORIOKA Ayako(October-)  | VICH Bioequivalence Expert Working Group         | Member         |
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| Mr. KOIKE Ryoji  | VICH Metabolism and Residue Kinetics Expert Working Group  | Member |
| Dr. OZAWA Manao  | VICH Safety Expert Working Group   | Member |
| Dr. EGUCHI Kaoru | VICH Expert Working Group for a General Guideline on Pharmaceutical Combination Products                                   | Member |
| Dr. OGATA Tomoko | VICH Medicated premix Expert Working Group   | Member |
| Dr. EGUCHI Kaoru | VICH Pharmacovigilance Expert Working Group  | Member |
| Dr. YAMADA Arisa | VICH Global regulatory Dossier Framework for pharmaceutical Veterinary Medicinal Product applications Expert Working Group | Member |

## TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

To South Korea:

We shared details about the WOAHP training for Asian countries conducted by NVAL and our activities as a WOAHP Collaborating Centre.

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

Yes

a) Technical visit : 0

b) Seminars : 0

c) Hands-on training courses: 12

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  | Training course titled as 'Improvement of basic technique of livestock disease diagnosis' (Japan International Cooperation Agency: JICA) from 21st June to 23th October, 2025 | Argentina, Colombia, Ethiopia, Mongolia, Philippines, Sri Lanka | 8   |
| C  | WOAHP Laboratory Training on AMR Surveillance in Terrestrial / Aquatic Food Animals   | Malaysia, Cambodia, Nepal, Chinese Taipei                       | 4   |

## 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?

Yes

| National/International | Title of event   | Co-organiser  | Date       | Location        | No. Participants |
|------------------------|--|---|------------|-----------------|------------------|
| Internationally        | The 1st Roundtable Meeting of East Asian National Animal Health Institutes               | -   | 2025-09-25 | Japan           | 40               |
| Internationally        | 5th Scientific meeting on FMD between RRL and NIAH                                       | -   | 2025-07-18 | Thailand        | 20               |
| Internationally        | Korea–Japan Research Exchange on Farm Animal Disease Monitoring and Control Technologies | Rural Development Administration National Institute of Animal Science | 2025-11-17 | Korea           | 10               |
| Internationally        | The 5th virtual meeting of the VICH Bioequivalence EWG                                   | VICH  | 2025-02-25 | Virtual meeting | 10               |
| Internationally        | Committee for Veterinary Medical Products Pharmacovigilance Working Party VeDDRA meeting | EMA   | 2025-04-01 | Virtual meeting | 18               |
| Internationally        | The 6th virtual meeting of the VICH Bioequivalence EWG                                   | VICH  | 2025-05-14 | Virtual meeting | 13               |
| Internationally        | the 2nd virtual meeting of the VICH Biologicals EWG Batch Potency Tests Subgroup         | VICH  | 2025-05-20 | Virtual meeting | 12               |
| Internationally        | VICH coordinators 15th virtual meeting   | VICH  | 2025-07-07 | Virtual meeting | 12               |
| Internationally        | VICH coordinators 16th virtual meeting   | VICH  | 2025-09-08 | Virtual meeting | 12               |
| Internationally        | VICH Pharmacovigilance EWG virtual meeting   | VICH  | 2025-09-10 | Virtual meeting | 15               |
| Internationally        | the meeting of the VICH GRDF EWG   | VICH  | 2025-10-28 | Virtual meeting | 18               |
| Internationally        | 44th VICH steering committee meeting   | VICH  | 2025-11-11 | Virtual meeting | 42               |
| Internationally        | 18th VICH Forum meeting  | VICH  | 2025-11-11 | Virtual meeting | 65               |
| Internationally        | The 8th virtual meeting of the VICH Bioequivalence EWG                                   | VICH  | 2025-12-04 | Virtual meeting | 17               |

## 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:

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1. NIAH, NARO

1) Arai N, et al., *ICEmST contributes to colonization of Salmonella in the intestine of piglets. Sci Reports, 2024, 14(1):31407*.doi: 10.1038/s41598-024-83039-6.

- 2) Arai N, et al., Multiplex allele-specific PCR and DNA chromatography to identify genotypes of *Salmonella enterica* serovar Typhimurium and its monophasic variants. *J. Microb. Methods.* 2025, 228:107082. doi: 10.1016/j.mimet.2024.107082.
- 3)  
Tamamura-Andoh Y, et al., Association between farm-level antimicrobial usage and antimicrobial resistance in *Escherichia coli* isolates from healthy swine in ten farms in Japan. *J. Vet. Med. Sci.* 2025, 5;87(9):1053-1059. doi: 10.1292/jvms.25-0221.
- 4) Watanabe-Yanai A, et al., Serine utilization between *Campylobacter jejuni* and *Campylobacter coli*. *Food Safety.* 2025, 12;13(3):38-42. doi: 10.14252/foodsafetyfscj.D-25-00004.
- 5) Fujimoto H, et al., Characterization of  $\alpha$ -hemolysin-specific monoclonal antibodies for detection in the culture supernatant of pathogenic *Escherichia coli* strains. *J. Vet. Med. Sci.* 2025 Aug 1;87(8):919-923. doi: 10.1292/jvms.25-0072.
- 6) Kawaguchi R, et al., Phylogenetic characterization and pathogenicity in cattle and pigs of foot-and-mouth disease viruses circulating in Myanmar between 2016 and 2022. *Transbound. Emerg. Dis.* 2025;2025:1532487. doi: 10.1155/tbed/1532487.
- 7) Watanabe M, et al., First outbreak of lumpy skin disease in Japan, 2024. *J. Vet. Med. Sci.* 2025;87(11):1295-1299. doi: 10.1292/jvms.25-0290.
- 8) Koizumi S, et al., Development of a conventional reverse transcription-PCR system for broad detection of bovine rhinitis A virus. *Vet. Med. Sci.* 2025;11(5):e70491. doi: 10.1002/vms3.70491.
- 9) Fukai K, et al., The narrow window of protection: protective efficacy of maternally derived antibodies against virulent classical swine fever virus in Japan. *Vet. Res.* 2025;56(1):151. doi: 10.1186/s13567-025-01583-z.
- 10) Fukai K, et al., Oral infectivity and 50% porcine infectious dose of classical swine fever virus JPN/1/2018 strain isolated from the first case in Japan. *J. Vet. Med. Sci.* 2025;87(7):769-773. doi: 10.1292/jvms.25-0123.
- 11) Nishi T, et al., Potency of two chimeric vaccine candidates derived from the classical swine fever GPE- vaccine strain against a circulating virus strain isolated in Japan. *Vet. Microbiol.* 2025;303:110438. doi: 10.1016/j.vetmic.2025.110438.
- 12) Kitamura T, et al., Establishment and characterization of a replication-restricted modified African swine fever virus. *Microbiol. Spectr.* 2025 e0222925. doi: 10.1128/spectrum.02229-25.
- 13) Yoshimoto A, et al., Reverse genetics study disclaims the role of African swine fever virus gene I196L in the pathogenesis in pigs. *J. Vet. Med. Sci.* 2025;87(11):1355-1361. doi: 10.1292/jvms.25-0245.
- 14) Kitamura T, et al., Generation of chimeric African swine fever viruses through in vitro and in vivo intergenotypic gene complementation. *Vaccines.* 2025;13(5):462. doi: 10.3390/vaccines13050462.
- 15) Kondo S, et al., Risk factors for introduction of H5N1 highly pathogenic avian influenza virus in Japanese commercial layer farms during the 2022-2023 epidemic: A case-control study. *Transbound. Emerg. Dis.* 2025;2025:2658633. doi: 10.1155/tbed/2658633.
- 16) Yamamoto T, et al., Detection of long-distance transmission events during the CSF epidemic in Japan using whole-genome-sequence data. *Transbound. Emerg. Dis.* 2025;2025:5706784. doi: 10.1155/tbed/5706784.
- 17) Hayama Y, et al., Descriptive epidemiological analysis for the first outbreak of lumpy skin disease in Japan in 2024. *Transbound. Emerg. Dis.* 2025;2025:8488125. doi: 10.1155/tbed/8488125.
- 18) Yamaguchi E, et al., Risk factors for highly pathogenic avian influenza outbreaks in Japan during 2022-2023 season identified by additive Bayesian network modeling. *Sci. Rep.* 2025;15(1):26739. doi: 10.1038/s41598-025-13003-5.
- 19) Murato Y, et al., Estimation of the risk of cohabitation with *Johne's disease*-infected cattle in Japanese dairy cows. *Prev. Vet. Med.* 2025;243:106611. doi: 10.1016/j.prevetmed.2025.106611.
- 20) Nishimori, A. et al., Improved method for elimination of bovine viral diarrhea virus from contaminated cell lines using virus inhibitor DB772. *J. Vet. Med. Sci.* 2025, 87(10):1149-1157. doi: 10.1292/jvms.25-0109.
- 21) Tanikawa, T. et al., Genetics of natural recombinant infectious bronchitis viruses isolated in Kagoshima Prefecture of Japan. *Arch. Virol.* 2025, 170(9):203. doi: 10.1007/s00705-025-06389-0.
- 22) Takamatsu, D. et al., Development of gene manipulation methods for *Enterococcus cecorum*. *J. Microbiol. Methods.* 2026 Jan;240:107331. doi: 10.1016/j.mimet.2025.107331.
- 23) Kitamura, Y. et al., Impact of different culture media and drying treatment on the isolation of *Melissococcus plutonius*, the causative agent of European foulbrood, from honey bee larval specimens. *J. Vet. Med. Sci.* 2025 Dec 1;87(12):1366-1372. doi: 10.1292/jvms.25-0347.
- 24) Mada, T. et al., First genomic analysis of a *Clostridium perfringens* strain carrying both the *cpe* and *netB* genes and the proposal of an amended toxin-based typing scheme. *Front. Microbiol.* 2025 May 19;16:1580271. doi: 10.3389/fmicb.2025.1580271.
- 25) Iguchi, A. et al., Comprehensive serotyping of *Mannheimia haemolytica* by a PCR system using the diversity of capsule biosynthesis genes. *Sci. Rep.* 2025 Apr 8;15(1):11970. doi: 10.1038/s41598-025-97176-z.
- 26) Nakamura, K. et al., 2025. Honey-derived *Paenibacillus* spp. with potential to affect bee

brood development in *Apis mellifera*: Are they a new threat to honey bees? *Virulence*. 2025 Dec;16(1):2451170. doi: 10.1080/21505594.2025.2451170.

27) Higaki S, et al. Leveraging unsupervised machine learning techniques for detecting outliers in the daily milk yield data of dairy cows. *J Dairy Sci*. 2025;108(9):9696-9711. doi: 10.3168/jds.2024-25889.

28) Higaki S, et al. Objective dairy cow mobility analysis and scoring system using computer vision-based keypoint detection technique from top-view 2-dimensional videos. *J Dairy Sci*. 2025;108(4):3942-3955. doi: 10.3168/jds.2024-25545.

29) Tsugami Y, et al. Development of a one-step rapid immunochromatographic test kit for detecting bovine mastitis-causing *Staphylococcus aureus* and streptococci. *Res Vet Sci*. 2025;196:105911. doi: 10.1016/j.rvsc.2025.105911.

30) Shimoda S, et al. The combined effects of tick defensin persulcatusin with conventional antibiotics and antimicrobial proteins/peptides against *Staphylococcus aureus*. *Microbiology (Reading)*. 2025;171(8):001589. doi: 10.1099/mic.0.001589.

31) Namba K, et al. Pathological and bacteriological investigations of *Pasteurella multocida* induced epididymitis in calves. *Vet Microbiol*. 2025;304:110445 doi: 10.1016/j.vetmic.2025.110445.

b) International conferences:

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1. NIAH, NARO

1) Dr. KOKUHO Takehiro, KITAMURA Toomoya YOSHIDA Naoki and WATANABE Mizuki attended and gave presentations on Global African Fever Research Alliance (GARA) Scientific Meeting on 28th April 2025.

2) Dr. MASUJIN Kentaro attended and gave presentations on 2025 International Symposium on Immunotechnology and Animal Preparations

3) Dr MATSUYAMA Ryota attended 18th Asian Society of Conservation Medicine Conference on 12th October 2025.

4) Dr KUSUMOTO Masahiro and NISHI Tatsuya gave presentations and Drs, KAWAGUCHI Rie, SUDA Yuuto, KISHIDA Natsumi, KITAMURA Kazuya, MIYAZAKI Ayako, KAWASHIMA Kenji, and KOBAYASHI Sota attends The 11th Asian Pig Veterinary Society Congress 2025 on 19th November, 2025.

2. NVAL

1) Dr. HOSOI Yuta, Dr. KOBAYASHI Yuka, Dr. MATSUMOTO Tsugumi participated as experts and gave a presentation about WOAHA Collaborating Centres Current Activities and Future Directions at Regional Seminar for WOAHA National Focal Points for Veterinary Products for Asia and the Pacific, from 21st to 23rd October 2025, Incheon, Republic of Korea. Hosted by Ministry of Agriculture, Food and Rural Affairs (MAFRA) and the Animal and Plant Quarantine Agency (APQA), Republic of Korea

2) Dr. KAWANISHI Michiko and Dr. KUBO Maika participated as experts and gave a presentation about "Introduction of Integrated AMR/AMU Surveillance and Risk-Based AMR Management in Japan" and joined a panel discussion at the regional workshop on interpretation of AMU/AMR data to improve evidence-based decision-making in Asia and the Pacific, 18-19 November 2025, Bangkok, Thailand.

3) Dr. IWAMOTO Shoko gave a presentation about the authorities on the regulatory process to register biological products in JAPAN on 18th VICH Forum meeting, Indianapolis, USA, 12 November 2025.

c) National conferences:

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NVAL

1) Dr. MATSUDA Mari attended the 42nd Veterinary Academic Annual Meeting organized by the Japanese Veterinary Medical Association and presented the results of antimicrobial resistance monitoring in coagulase-positive staphylococci isolated from diseased dogs and cats.

2) Dr. MATSUDA Mari attended the 51st symposium of the Research Association for Veterinary Antimicrobials gave a presentation about the JVARM AMR monitoring targeting companion animals.

3) Dr. KUMAKAWA Mio attended the 168th meeting of the Japanese Society of Veterinary Science Japan and gave a presentation about Evaluation of Alternative Media for Disk Diffusion Testing in *Actinobacillus pleuropneumoniae* (App).

4) Dr. KAWANISHI Michiko attended the 168th meeting of the Japanese Society of Veterinary Science Japan and gave a presentation about Current Statuses and Challenges of Antimicrobial Resistance in Livestock.

5) *Dr. SATO Kota participated as experts and gave a presentation about VICH concept paper on principles for technical guidance for the transition to in-vitro methods for batch potency tests in veterinary immunologicals on AFSA-IABS Conference (Animal testing replacement for vaccines), Bangkok, Thailand, 2-4 December 2025.*

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?

. NIAH, NARO

1) *Characteristics of high pathogenicity avian influenza viruses detected in domestic poultry early in the 2024 season*  
*Characteristics of high pathogenicity avian influenza viruses detected in domestic poultry early in the 2024 season*

2. NVAL

1) *Scheme and data from JVARM (Japanese Veterinary Antimicrobial Resistance Monitoring System) has been published in English on HP of NVAL. [https://www.maff.go.jp/nval/yakuzai/yakuzai\\_p3.html](https://www.maff.go.jp/nval/yakuzai/yakuzai_p3.html)*

12. Additional comments regarding your report:

*None*