World Organisation for Animal Health

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# WOAH Collaborative Centre Reports Activities 2025

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## CENTRE INFORMATION

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| ***Title of WOAH Collaborating Centre** | Animal Feed Safety and Analysis |
| ***Address of WOAH Collaborating Centre** | Shintoshin 2-1, Chuo-ku, Saitama-Shi, Saitama, JAPAN |
| ***Tel:** | +81-50-3797-1830 |
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| **Website:** | http://www.famic.go.jp/english/ |
| ***Name Director of Institute (Responsible Official):** | KIUCHI Takeshi |
| ***Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):** | FURUKAWA Akira（Chief Director, Fertilizer and Feed Inspection Department） |
| ***Name of the writer:** | NISHIMURA Mayumi |

## 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 |
|---|---|---|
| Training, capacity building (true) | WOAH Regional Workshop & FAMIC Virtual Training on Analysis of Antimicrobials in Feed (Co-hosted by WOAH-RRAP and FAMIC) | Virtual training on lectures and analysis concerning antimicrobials in feed was conducted for WOAH member countries in Asia and the Pacific. The training content provided by FAMIC is as below. (Online training) Lecture: Summary of questionnaire responses from the Laboratory Network members; Risk management of antimicrobials in feed in Japan; Overview of Analytical Methods for Antibiotics in Feed (Quantitative Analysis of Plate Method, HPLC Method and Colorimetric Method) Technical Training: Quantitative Determination of Salinomycin Sodium (SL) in Formula Feed for Chicken by Plate Method and HPLC Method (Video Demonstration) [Jan. 16th] |
| Feed safety (true) | Inspection and analysis of pesticide residues in feed | Inspection for pesticides with regulation values in Japan and surveillance of other pesticides in feed ingredients and formula feeds. |

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| Feed safety (true) | Inspection and analysis of mycotoxins in feed | Inspection for mycotoxins with regulation values in Japan and surveillance of other mycotoxins in feed ingredients and formula feeds. |
| Feed safety (true) | Inspection of heavy metals in feed | Inspection for heavy metals with regulation values in Japan: cadmium, mercury, lead, and arsenic. |
| Feed safety (true) | Inspection of microorganisms in feed | Inspection for Salmonella contamination in feed. |
| Feed safety (true) | Inspection of animal-derived protein in feed | Inspection to ensure that prohibited animal-derived proteins are not mixed into feed to prevent occurrence of BSE. |
| Feed safety (true) | Inspection of insoluble impurities in animal oil and fat | Inspection of animal oil and fat for insoluble impurities to prevent the occurrence of BSE. |
| Feed safety (true) | Inspection and official test assay of antimicrobial in feed and feed additives | Inspection of antimicrobial substance contents in formula feeds and feed additives in Japan, including official testing of specified feed additives. |
| Feed safety (true) | Inspection of antioxidant | Inspection of antioxidants in formula feeds and fish meal. |
| Feed safety (true) | Development of analytical methods for animal feed | Development of official methods for feed analysis in Japan (7 research projects). 1. Validation study of 2,4-dichlorophenoxyacetic acid determination method in grains and grass hay at concentration equivalent to the revised regulation value 2. Development of fumonisin determination method in corn silage and whole-crop rice silage by LC-MS/MS 3. Development of PFAS determination method in feed by LC-MS/MS 4. Development of flavophospholipol microbiological determination method in formula feed 5. Development of 3-nitrooxypropanol determination method in formula feed for cattle by LC 6. Development of ochratoxin A determination method in snack type pet food by LC 7. Development of aflatoxin, sterigmatocystin and zearalenone determination method in brans and food processing by-products, and oil seed meals by LC-MS/MS |
| Feed safety (true) | Publication of "Research Report of Animal Feed" | "Research Report of Animal Feed" are published on our website. (Latest volume:50(2025)) It contains development and improvement studies of analytical methods and inspection and surveillance results. |
| | | We provided the opportunity of training for feed |

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| Training,capacity building (true) | 2025 technical training on feed safety inspection | inspectors in local authorities. Two seminars were conducted, containing lectures and technical training as below. Lecture: About Act on Safety Assurance and Quality Improvement of Feeds Lecture: How to take a sample of feed Technical Training: How to conduct feed analysis [1st: Jul. 1st] [2nd: Oct. 27th-29th] |
| Training,capacity building (true) | Online course on obtaining feed manufacturing manager qualification. | We conducted the training course, to qualify as supervisor of feed manufacture responsible for the production of feed and feed additives required by law, by video streaming. [Jan. 8th – Feb. 28th] |
| Training, capacity building (true) | Seminar on Good Manufacturing Practice (GMP) for feed | To enhance the knowledge about Good Manufacturing Practice (GMP) on feed manufacturing, we held virtual seminar (Training) for feed manufacturers. The training was conducted by video streaming. [Jan. 24th – Mar. 6th, Jun.24th-Jul.14th, Jul.24th -Aug.13rd, Nov.24th-Dec.14th] |
| Training, capacity building (true) | Proficiency test on feed analysis for feed manufacture, analysis laboratory and prefecture laboratory | We conducted proficiency test for feed manufacturers, laboratories and prefectural laboratories in Japan, as below. In 2025, three feed samples were distributed, and 204 participants reported their results of analysis. We conducted statistical analysis of the results and provided comments to the participants to ensure accurate analysis. |

# 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 |
|---|---|---|
| Development of Fecal Coliform Detection Method for Pet Food | Development of fecal coliform detection method for pet food was conducted and published on the FAMIC website. | Animal Production |
| Development of 3-Nitrooxypropanol Determination Method in Formula Feed for Cattle by LC | Development of 3-nitrooxypropanol determination method in formula feed for cattle by LC was conducted and published on the FAMIC website. | Animal Production |
| Study of Simultaneous Determination Method of Cystine, Lysine, Methionine and Threonine by Amino Acid Analysis System | Study of simultaneous determination method of cystine, lysine, methionine and threonine in formula feed for pigs by automatic amino acid analyser was conducted and published on the FAMIC website | Animal Production |
| Validation Study of Glyphosate Determination Method in Grains and Grass Hay by LC-MS/MS at Concentration Equivalent to the Revised Regulation Value | Validation study of glyphosate determination method in grains and grass hay by LC-MS/MS at concentration equivalent to the revised regulation value was conducted and published on the FAMIC website. | Animal Production |

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

No

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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 |
|---|---|---|---|
| National Research Centre for Animal Nutrition (NRCAN) | Bhutan | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |
| Veterinary Laboratory Services | Brunei Darussalam | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |
| Livestock Research Institute, Council of Agriculture | Chinese Taipei | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |
| Iran Veterinary Organization (IVO) | Iran | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |
| Ministry of Agriculture, Livestock and Irrigation (MoALI) | Myanmar | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |
| National Animal Feed Livestock Quality Management Laboratory (NAFLQML) | Nepal | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |
| Laboratory of New Caledonia | New Caledonia | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific |

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| | | | and provide technical support for feed analysis |
| Singapore Food Agency (SFA) | Singapore | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |
| Veterinary Research Institute | Sri Lanka | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |
| Bureau of Quality Control of Livestock Product (BQCLP) | Thailand | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |
| Division of Animal Quarantine and Inspection (AQID) | Vietnam | Asia y el Pacífico | (Laboratory Network on Animal Feed Safety in Asia and the Pacific): Exchange of information on animal feed safety in Asia and the Pacific and provide technical support for feed analysis |

# 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 |
|---|---|---|---|
| National Veterinary Assay Laboratory (WOAH Collaborating Centre for Diagnosis and Control of Animal Diseases and Related Veterinary Product Assessment in Asia) | Ibaraki, Japan | Asia and Pacific | JVARM (the Japanese Veterinary Antimicrobial Resistance Monitoring System) has been in place since 1999 in response to international concern about the impact of antimicrobial resistance on public health. In this system, FAMIC has a vital role in analysing monitoring results for the presence of antimicrobial resistant bacteria in collaboration with the National Veterinary Assay |

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| | | | Laboratory in Japan. FAMIC exchanges the feed safety information in feed safety meetings that are held every year. |
| National Institute of Animal Health, National Agriculture and Food Research Organization (WOAH Collaborating Centre for Diagnosis and Control of Animal Diseases and Related Veterinary Product Assessment in Asia) | Ibaraki, Japan | Asia and Pacific | FAMIC exchanges the feed safety information in meeting for feed safety that is held every year. |
| Institute of Food Research, National Agriculture and Food Research Organization | Ibaraki, Japan | Asia and Pacific | FAMIC conducts collaborative research on edible insects with Institute of Food Research, National Agriculture and Food Research Organization. In addition, we exchange the safety information by stationing our staff. |

# 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 |
|---|---|---|
| Mr. YAMATA Toshiaki | Risk management for feed safety | Systems for Risk Management of Substances Related to Feed Safety |
| Dr. AOYAMA Koji | Feed analysis | Analytical methods for mycotoxins, pesticides, heavy metals, etc. |
| Ms. NISHIMURA Mayumi | Feed analysis | Analysis for feed safety using bio-chemical methods such as PCR, ELISA and bioassay. |

# TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

*The virtual training conducted on Jan. 16, 2025, was held based on survey results from Laboratory Network members, focusing on antimicrobial as the most requested topic.*

*We received a question from Bhutan, a member of the Laboratory Network, regarding the verification of analytical results and introduced the international proficiency test framework.*

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

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Yes

a) Technical visit : 0

b) Seminars : 1291

c) Hands-on training courses: 4

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 |
|---|---|---|---|
| B | WOAH Regional Workshop & FAMIC Virtual Training on Analysis of Antimicrobials in Feed | American Samoa, Australia, Bangladesh, Bhutan, Brunei, Canada, China PR, Chinese Taipei, Fiji, Hong Kong SAR, India, Indonesia, Japan, Malaysia, Mongolia, Myanmar, Nepal, New Caledonia, New Zealand, Pakistan, Philippines, Papua New Guinea, Saudi Arabia, Singapore, Sri Lanka, Thailand, Timor Leste | 121 |
| B | 2025 1st technical training on feed safety inspection [on-line] | JAPAN | 67 |
| C | 2025 2nd technical training on feed safety inspection | JAPAN | 4 |
| B | Online course on obtaining feed manufacturing manager qualification. [on-line] | JAPAN | 101 |
| B | Online Seminar of Good Manufacturing Practice (GMP) for feed [on-line] | JAPAN | 1002 |

# 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?

Yes

| National/International | Title of event | Co-organiser | Date | Location | No. Participants |
|---|---|---|---|---|---|
| Nationally | ISO/TC34/SC9 National Countermeasures Committee | Japan Food Research Laboratories | 2025-08-18 | Tokyo, Japan | 8 |
| Nationally | 92nd Regular Meeting of Japanese Society of Mycotoxicology | Japanese Society of Mycotoxicology | 2025-01-10 | Saitama, Japan | 102 |
| Nationally | 4th Joint Conference on Environmental Chemicals | Japan Society of Environmental Chemistry, The Japanese Society of Environmental Toxicology, The Mass Spectrometry Society of Japan | 2025-07-15 | Yamagata, Japan | 830 |
| Nationally | 28th Regular Meeting of AOAC International Japan | AOAC International Japan Section | 2025-07-17 | Tokyo, Japan | 100 |

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| | Section | | | | |
| Nationally | 93rd Regular Meeting of Japanese Society of Mycotoxicology | Japanese Society of Mycotoxicology | 2025-09-08 | Tokushima, Japan | 86 |
| Nationally | 121st Regular Meeting of Japanese Society for Food Hygiene and Safety | Japanese Society for Food Hygiene and Safety | 2025-10-16 | Tokyo, Japan | 300 |
| Nationally | 48th Regular Meeting of Special Committee on Pesticide Residue Analysis of Japan | Special Committee on Pesticide Residue Analysis of Japan | 2025-11-18 | Tokyo, Japan | 100 |

# 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:
2
*KANAZASHI Y., YAMAGAMI Y., FURUKAWA T., TSUKADA Y., HIRONO Y., OGINO A., YABE K., KUSHIRO M. (2025) YES-DC-CP medium facilitates the isolation of Aspergillus section Flavi from acidic field soils, JSM Mycotoxins, 75(1), 7-10.*

*KANAZASHI Y., YAMAGAMI Y., FURUKAWA T., YABE K., KUSHIRO M. (2025) Trial for cyp51A gene variants to discriminate Japanese Aspergillus oryzae from A. flavus, JSM Mycotoxins, 75(2), 55-57.*

b) International conferences:

c) National conferences:
4
*KANAZASHI Y., YAMAGAMI Y., FURUKAWA T., TSUKADA Y., HIRONO Y., OGINO A., YABE K., KUSHIRO M. Isolation of Aspergillus section Flavi from acidic field soils by surface observation on YES-DC-CP medium, 92nd Regular Meeting of Japanese Society of Mycotoxicology, 10/1/2025.*

*YAMAGAMI Y., KANAZASHI Y., NAKAGAWA H., KUSHIRO M., FURUKAWA T. Development of quantitative method for Fusarium spp. by real-time PCR, 92nd Regular Meeting of Japanese Society of Mycotoxicology, 10/1/2025.*

*SUZUKI C., TOMONARI M., HASHIMOTO Y. Development of PFAS determination method in feed by LC-MS/MS, 4th Joint Conference on Environmental Chemicals, 15-18/7/2025.*

*DOI Y. Development of fumonisin determination method in corn silage and whole-crop rice silage by LC-MS/MS, 93rd Regular Meeting of Japanese Society of Mycotoxicology, 8/9/2025.*

d) Other (Provide website address or link to appropriate information):
3
*Research Report of Animal Feed No. 50 has been posted on FAMIC website.*
*http://www.famic.go.jp/ffis/feed/rraf/rraf_50.html*

*FAMIC's WOAH-CC website*
*http://www.famic.go.jp/ffis/woah/indexe.html*

*WOAH Regional Workshop & FAMIC Virtual Training on Analysis of Antimicrobials in Feed*
*http://www.famic.go.jp/ffis/woah/sub1/sub1e_meeting.html*

11. What have you done in the past year to advance your area of focus, e.g. updated technology?
*FAMIC have done to develop and improve analytical methods of feed. Improved methods are as follows.*

*・Validation Study of Glyphosate Determination Method in Grains and Grass Hay by LC-MS/MS at Concentration Equivalent to the Revised Regulation Value*
*・Validation Study of Simultaneous Determination Method of Phosphorus-Containing Amino Acid-Based Pesticides in Feed by LC-MS/MS (Application of N-acetylglyphosate to Grains, Rice straw and Whole-Crop Rice Silage)*
*・Study of Fecal Coliform Detection Method for Pet Food*

12. Additional comments regarding your report:
*FAMIC's main operations are analysis and inspection of animal feed. We also develop and improve analytical methods of animal feed in consultation with the Ministry of Agriculture, Forestry and Fisheries (MAFF). The developed and improved analytical methods are reviewed by experts in various fields in Japan. The analytical methods which have passed the expert review are reported to the MAFF. And then, the analytical methods are published as Japanese official methods, and their English versions are posted on the FAMIC website.*