

WOAH Collaborative Centre Reports Activities 2022

Activities in 2022

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Centre Information

Title of WOA Collaborating Centre	Animal Feed Safety and Analysis
Address of WOA Collaborating Centre	Food and Agricultural Materials Inspection Center (FAMIC) 2-1, Shintoshin, Chuo-ku, Saitama-shi, Saitama 330-9731, JAPAN
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E-mail address:	Yutaka_kunugi239@famic.go.jp
Website:	http://www.famic.go.jp/ffis/oie/indexe.html
Name Director of Institute (Responsible Official):	KIUCHI Takeshi President
Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	KUNUGI Yutaka Vice-president
Name of the writer:	ISHIBASHI Takayuki, Director, Feed Analysis II Division, Fertilizer and Feed Inspection Department

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 WOA

Feed Safety	
Title of activity	Scope
	FAMIC supplied the following information about feed safety and analysis, not only for Japan but also for feed-related

Information sharing	manufactures in the world. •Information on feed regulation in Japan •Official methods of analysis for feed and relevant information •Results of the monitoring of feed and feed ingredients collected in Japan.
Training, capacity building	
Title of activity	Scope
Online training	JTEPA Training on Veterinary Medicinal Products 2022

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

Proposal title	Scope/Content	Applicable area
Research on methods of analysis for animal feed	Development of Determination Method of Melamine in Pet Foods by LC-MS/MS	health management Animal production
Research on methods of analysis for animal feed	Development of Determination Method of Thiophanate in Feed by LC-MS/MS	health management Animal production
Research on methods of analysis for animal feed	Development of Simultaneous Determination Method of Diquat and Paraquat in Feed by LC-MS/MS	health management Animal production
Research on methods of analysis for animal feed	Development of Determination Method of Bensulfuron-Methyl in Rice Straw, Whole-Crop Rice Silage and Paddy Rice for Feed by LC-MS/MS	health management Animal production
Research on methods of analysis for animal feed	Development of Simultaneous Determination Method of Benfuracarb and Carbosulfan in Rice Straw by LC-MS/MS	health management Animal production
Research on methods of analysis for animal feed	Development of Rapid Simultaneous Determination Method of Arsenic, Cadmium, Lead and Mercury in Feed and Pet Food by ICP-MS	health management Animal production
Research on methods of analysis for animal feed	Validation Study of Determination Method of Cartap by LC-MS - Application to Ear Corn Silage -	health management Animal production

Research on methods of analysis for animal feed	Validation Study of Zearalenone, Zearalanone, Zearalenols and Zearalanols in Feeds and Occurrence in Japan	health management Animal production
Research on methods of analysis for animal feed	Collaborative Study of an LC-MS/MS Method for Determination of Chlorpropham in Feeds	health management Animal production

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

Yes

Name of OIE CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Laboratories in Asia and the Pacific	BHUTAN, BRUNEI, IRAN, MYANMAR, NEPAL, NEW CALEDONIA, SINGAPORE, SRI LANKA, TAIPEI (CHINESE), THAILAND, VIETNAM	Asia and Pasific	FAMIC conducted a questionnaire about technical training on Pesticide in Feed to hold next year to laboratory network members.

TOR4 AND 5: NETWORKING AND COLLABORATION

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

Yes

Name of OIE CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
National Veterinary Assay Laboratory (WOAHA Collaborating Centre for Diagnosis and Control of Animal Diseases and Related Veterinary Product Assessment in Asia)	Tokyo, JAPAN	Asia and Pasific	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 analyzing monitoring results for the presence of antimicrobial resistant bacteria in collaboration with

			the National Veterinary Assay Laboratory in Japan. FAMIC exchanges the feed safety informations in meeting for feed safety that is 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 Pasific	FAMIC exchanges the feed safety informations in meeting for feed safety that is held every year.
Institute of Food Research, National Agriculture and Food Research Organization	Ibaraki, Japan	Asia and Pasific	FAMIC exchanges the feed safety informations by stationing our staff in Institute of Food Research, National Agriculture and Food Research Organization.

TOR6: EXPERT CONSULTANTS

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

No

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

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 :

b) Seminars : 17

c) Hands-on training courses:

d) Internships (>1 month) :

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	JTEPA Training on Veterinary Medicinal Products 2022	Thailand	17

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 WOA?H?

No

TOR9: 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:

2

AOYAMA K. and SAITO H. (2022) *Validation Study of Zearalenone, Zearalanone, Zearalenols and Zearalanols in Feeds and Occurrence in Japan*, *JSM Mycotoxins*, 72(1), 15–22.

TAKEDA Z., KURASHIMA C., SUGIMOTO Y. and SEKIGUCHI Y. (2022) *Collaborative Study of an LC-MS/MS Method for Determination of Chlorpropham in Feeds*, *Food Hygiene and Safety Science*, 63(3), 122–127.

b) International conferences:

0

c) National conferences:

0

d) Other (Provide website address or link to appropriate information):

10

KOZUKA K., YAMAMOTO K. and OSHIMA S. (2022) *Development of Determination Method of Melamine in Pet Foods by LC-MS/MS (1) Study of Determination Method for Dry, Semi Dry and Wet Food*, *Research Report of Animal Feed*, 47, *Food Agricultural Materials Inspection Center, Saitama*, 1-12.

TAKAHASHI A., KOZUKA K. and OSHIMA S. (2022) *Development of Determination Method of Melamine in Pet Foods by LC-MS/MS (2) Validation Study on Application to Snack Type Pet Food*, *Research Report of Animal Feed*, 47, *Food Agricultural Materials Inspection Center, Saitama*, 13-19.

OKUTOMI Y., TASHIMA M., SAKAI T. and MAKINO D. (2022) *Development of Determination Method of Thiophanate in Feed by LC-MS/MS*, *Research Report of Animal Feed*, 47, *Food Agricultural Materials Inspection Center, Saitama*, 20-32.

SAKAKIBARA Y., IZAWA A., KUWABARA M., TAKAHASHI Y., YASUDA I. and AOYAMA K. (2022) *Development of Simultaneous Determination Method of Diquat and Paraquat in Feed by LC-MS/MS* *Research Report of Animal Feed*, 47, *Food Agricultural Materials Inspection Center, Saitama*, 33-45.

TAKEDA Z., FUNAKI N. and SEKIGUCHI Y. (2022) *Development of Determination Method of Bensulfuron-Methyl in Rice Straw, Whole-Crop Rice Silage*, *Research Report of Animal Feed*, 47, *Food Agricultural Materials Inspection Center, Saitama*, 46-61.

ARAYA H., KONDO M., FUNAMIZU E., ARAKI A. and AOYAMA K. (2022) *Development of Simultaneous Determination Method of Benfuracarb and Carbosulfan in Rice Straw by LC-MS/MS*, *Research Report of Animal Feed*, 47, *Food Agricultural Materials Inspection Center, Saitama*, 62-72.

HAYASHI N. and MOTOKI T. (2022) *Development of Rapid Simultaneous Determination Method of Arsenic, Cadmium, Lead and Mercury in Feed and Pet Food by ICP-MS*, *Research Report of Animal Feed*, 47, *Food Agricultural Materials Inspection Center, Saitama*, 73-86.

KATO K., KADEKARU M. and KUWABARA M. (2022) *Validation Study of Determination Method of Cartap by LC-MS ~Application to Ear Corn Silage~*, *Research Report of Animal Feed*, 47, *Food Agricultural Materials Inspection Center, Saitama*, 87-97.

Feed Analysis 1st Division and 2nd Division, Fertilizer and Feed Inspection Department (2022) Monitoring Results of Undesirable

Substances in Feeds (in the Fiscal Year 2021), Research Report of Animal Feed, 47, Food Agricultural Materials Inspection Center, Saitama, 127-147.

Feed Analysis 2nd Division, Fertilizer and Feed Inspection Department (2022) Results of Official Testing of Specified Feed Additives (in the Fiscal Year 2021), Research Report of Animal Feed, 47, Food Agricultural Materials Inspection Center, Saitama, 128-158.

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**Research Report of Animal Feed No. 47 has been posted on FAMIC website.*

http://www.famic.go.jp/ffis/feed/rraf/rraf_47.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. Updated methods are as follows.

·Determination Method of Cartap by LC-MS - Application to Ear Corn Silage –

·Method of Zearalenone, Zearalanone, Zearalenols and Zearalanols in Feeds and Occurrence in Japan

·LC-MS/MS Method for Determination of Chlorpropham in Feeds

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. The developed and improved analytical methods are reviewed by experts in various fields in Japan. When the methods pass the expert review, the analytical methods are reported to the Ministry of Agriculture, Forestry and Fisheries. And then, the analytical methods are published as Japanese official methods and English version has been posted on the FAMIC website sequentially.