OIE Collaborating Centres Reports Activities

Activities in 2021

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Title of collaborating centre:	Animal Feed Safety and Analysis
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Name of Director of Institute (Responsible Official):	KIUCHI Takeshi President
Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):	KUNUGI Yutaka Vice-president
Name of writer:	ISHIDA Yukie Director, Feed Analysis II Division, Fertilizer and Feed Inspection Department

ToR: To provide services to the OIE, in particular within the region, in the designated specialty, in support of the implementation of OIE policies and, where required, seek for collaboration with OIE Reference Laboratories

ToR: To identify and maintain existing expertise, in particular within its region

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by the OIE

Feed safety	
Title of activity	**Scope**
Information sharing	FAMIC supplied the following information about feed safety and analysis, not only for Japan but also for feed-related 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.
Presentation and participation the international conference	FAMIC paticipated in the 3rd OIE Regional Meeting for OIE Reference Centres in Asia and the Pacific on 24-25 February, 2021 and made presentation about laboratory network on animal feed safety. (web meeting)
Presentation and participation the international conference	FAMIC and OIE Regional Representation and Asia-Pacific have co-organised the 3rd OIE Regional Workshop on Animal Feed Safety back to back with the FAMIC Virtual Training on Heavy Metals. (web meeting), 26 November, 2021.

ToR : To propose or develop methods and procedures that facilitate harmonisation of international standards and guidelines applicable to the designated specialty

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the surveillance and control of animal diseases, food safety or animal welfare

Proposal title	Scope/Content	Applicable area
Research on methods of analysis for animal feed	Development and Collaborative Study of Simultaneous Determination Method of Phosphorus-Containing Amino-Acid-Based Pesticides in Soybeans and Soybean Meal by LC-MS/MS	☐Surveillance and control of animal diseases ☒Food safety ☒Animal welfare

Research on methods of analysis for animal feed	Development of Determination Method of Deoxynivalenol and Zearalenone in Whole-Crop Rice Silage by LC-MS/MS	☐Surveillance and control of animal diseases ☒Food safety ☒Animal welfare
Research on methods of analysis for animal feed	Development of Determination Method of Cyanuric Acid in Dried Skim Milk by LC-MS/MS	☐Surveillance and control of animal diseases ☒Food safety ☒Animal welfare
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	☐Surveillance and control of animal diseases ☒Food safety ☒Animal welfare
Research on methods of analysis for animal feed	Additional Consideration and Collaborative Study of Determination Method of Fipronil in Feed by LC-MS/MS	☐Surveillance and control of animal diseases ☒Food safety ☒Animal welfare
Research on methods of analysis for animal feed	Collaborative Study of Determination Method of Hydroxyisoxazol in Rice Straw and Paddy Rice for Feed by LC-MS	☐Surveillance and control of animal diseases ☒Food safety ☒Animal welfare
Research on methods of analysis for animal feed	Validation Study on Application of Cartap Determination Method by LC-MS to Ear-Corn Silage	☐Surveillance and control of animal diseases ☒Food safety ☒Animal welfare

ToR: To establish and maintain a network with other OIE Collaborating Centres designated for the same specialty, and should the need arise, with Collaborating Centres in other disciplines

ToR: To carry out and/or coordinate scientific and technical studies in collaboration with other centres, laboratories or organisations

3. Did your Collaborating Centre maintain a network with other OIE 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, Myanmar, New Caledonia, Singapore, Sri Lanka, Vietnam, Chinese Taipei, Iran, Thailand, Brunei, Nepal	☐Africa ☐Americas ☒Asia and Pacific ☐Europe ☐Middle East	FAMIC conducted a questionnaire about technical training for laboratory network members, selected the most requested topics, and held a technical workshop.

4. Did your Collaborating Centre maintain a network with other OIE 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 (OIE Collaborating Centre for Diagnosis and Control of Animal Diseases and Related Veterinary Product Assessment in Asia)	Tokyo, Japan	☐Africa ☐Americas ☒Asia and Pacific ☐Europe ☐Middle East	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
National Institute of Animal Health, National Agriculture and Food Reserch Organization (OIE Collaborating Centre for Diagnosis and Control of Animal Diseases and Related Veterinary Product Assessment in Asia)	Ibaraki, Japan	☐Africa ☐Americas ☒Asia and Pacific ☐Europe ☐Middle East	FAMIC exchanges the feed safety informations in meeting for feed safety that is held every year.
Insutitute of Food Research, National Agriculture and Food Reseach Organizasion	Ibaraki, Japan	☐Africa ☐Americas ☒Asia and Pacific ☐Europe ☐Middle East	FAMIC exchanges the feed safety informations by stationing our staff in Insutitute of Food Research, National Agricultuare and Food Reseach Organizasion.

ToR: To place expert consultants at the disposal of the OIE.

5. Did your Collaborating Centre place expert consultants at the disposal of the OIE?

No

ToR: To provide, within the designated specialty, scientific and technical training to personnel from OIE Member Countries

6. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by the OIE, to personnel from OIE Member Countries?

Yes
a) Technical visits: 0
b) Seminars: 18
c) Hands-on training courses: 0
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	3rd OIE Regional Workshop on Animal Feed Safety / FAMIC Virtual Training on Heavy Metals.(web meeting), 26 November, 2021.	BHUTAN, BRUNEI, FIJI, MALAYSIA, MYANMAR, SINGAPORE, SRI LANKA, TAIPEI (CHINESE), THAILAND	18

ToR: To organise and participate in scientific meetings and other activities on behalf of the OIE

7. Did your Collaborating Centre organise or participate in the organisation of scientific meetings on behalf of the OIE?

No

ToR: To collect, process, analyse, publish and disseminate data and information relevant to the designated specialty

8. Publication and dissemination of any information within the remit of the mandate given by the OIE that may be useful to Member Countries of the OIE

a) Articles published in peer-reviewed journals: 1
SUZUKI C., NOMURA M. and OKUTOMI Y. (2021) Determination of Inorganic Arsenic for Pet Food by LC-ICP-MS, Shokuhin Eiseigaku Zasshi (Food Hyg. Saf. Sci.), 62 (5), 139-147.

b) International conferences: 0

c) National conferences: 0

d) Other
(Provide website address or link to appropriate information): 9

SAIKI M., ARAYA H. and MIYANOYA K. (2021) Development and Collaborative Study of Simultaneous Determination Method of PhosphorusContaining Amino-Acid-Based Pesticides in Soybeans and Soybean Meal by LC-MS/MS, Research Report of Animal Feed, 46, Food Aguricultural Materials Inspection Center, Saitama, 1-21.

SUZUKI C. (2021) Development of Determination Method of Deoxynivalenol and Zearalenone in Whole-Crop Rice Silage by LC-MS/MS, Research Report of Animal Feed, 46, Food Aguricultural Materials Inspection Center, Saitama, 22-31.

NUMATA A., OSHIMA S. and TAKAHASHI Y. (2021) Development of Determination Method of Cyanuric Acid in Dried Skim Milk by LC-MS/MS, Research Report of Animal Feed, 46, Food Aguricultural Materials Inspection Center, Saitama, 32-44.

ITOU S. and HAYASHI N. (2021) 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, 46, Food Aguricultural Materials Inspection Center, Saitama, 45-56.

TAKEDA Z., KURASHIMA C., SHIRAI S., NAZUKA E. and MAKINO D. (2021) Additional Consideration and Collaborative Study of Determination Method of Fipronil in Feed by LC-MS/MS, Research Report of Animal Feed, 46, Food Aguricultural Materials Inspection Center, Saitama, 57-71.

MAKINO D., DOI Y. and TASHIMA M. (2021) Collaborative Study of Determination Method of Hydroxyisoxazol in Rice Straw and Paddy Rice for Feed by LC-MS, Research Report of Animal Feed, 46, Food Aguricultural Materials Inspection Center, Saitama, 72-79.

SEKIGUCHI Y. and ITABASHI A. (2021) Validation Study on Application of Cartap Determination Method by LC-MS to Ear-Corn Silage, Research Report of Animal Feed, 46, Food Aguricultural Materials Inspection Center, Saitama, 80-87.

Feed Analysis 1st Division and 2nd Division, Fertilizer and Feed Inspection Department (2021) Monitoring Results of Undesirable Substances in Feeds (in the Fiscal Year 2020), Research Report of Animal Feed, 46, Food Aguricultural Materials Inspection Center, Saitama, 88-108.

Feed Analysis 2nd Division, Fertilizer and Feed Inspection Department (2021) Results of Official Testing of Specified Feed Additives (in the Fiscal Year 2020), Research Report of Animal Feed, 46, Food Aguricultural Materials Inspection Center, Saitama, 88-108.

*Reserch Report of Animal Feed No. 46 has been posted on FAMIC website.
http://www.famic.go.jp/ffis/feed/rraf/rraf_46.html

9. 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.