This report has been submitted: 2014-01-24 21:54:58

| Name of disease (or topic) for which you are a designated OIE Reference Laboratory: | Highly and low pathogenic avian influenza |
| Address of laboratory: | Kita-18, Nish-9, Kita-Ku Sapporo 060-0818 JAPAN |
| Tel.: | +81-11 706 52 07 |
| Fax: | +81-11 706 52 73 |
| e-mail address: | kida@vetmed.hokudai.ac.jp |
| Name (including Title) of Head of Laboratory (Responsible Official): | Hiroshi Kida |
| Name (including Title and Position) of OIE Reference Expert: | Hiroshi Kida, Yoshihiro Sakoda, Masatoshi Okamatsu |
| Which of the following defines your laboratory? Check all that apply: | Academic |
ToR: To use, promote and disseminate diagnostic methods validated according to OIE Standards

1. Did your laboratory perform diagnostic tests for the specified disease/topic for purposes such as disease diagnosis, screening of animals for export, surveillance, etc.? (Not for quality control, proficiency testing or staff training)

   Yes

<table>
<thead>
<tr>
<th>Diagnostic Test</th>
<th>Indicated in OIE Manual (Yes/No)</th>
<th>Total number of test performed last year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nationally</td>
<td>Internationally</td>
</tr>
<tr>
<td>Indirect diagnostic tests</td>
<td>Yes</td>
<td>100</td>
</tr>
<tr>
<td>HI test H5</td>
<td>Yes</td>
<td>0</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td>Yes</td>
<td>691</td>
</tr>
<tr>
<td>Virus isolation</td>
<td>Yes</td>
<td>813</td>
</tr>
</tbody>
</table>

ToR: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards. To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by the OIE?

   No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

   No

4. Did your laboratory produce vaccines?

   No

5. Did your laboratory supply vaccines to OIE Member Countries?

   No
**ToR: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases**

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

Yes

<table>
<thead>
<tr>
<th>Name of the new test or diagnostic method or vaccine developed</th>
<th>Description and References (Publication, website, etc.)</th>
</tr>
</thead>
</table>

**ToR: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries**

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

Yes

<table>
<thead>
<tr>
<th>Name of the OIE Member Country receiving a technical consultancy</th>
<th>Purpose</th>
<th>How the advice was provided</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINESE TAIPEI</td>
<td>Improvement of diagnosis of avian influenza</td>
<td>In loco and remote assistance</td>
</tr>
<tr>
<td>MONGOLIA</td>
<td>Improvement of diagnosis of avian influenza</td>
<td>In loco and remote assistance</td>
</tr>
</tbody>
</table>

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

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?
Title of the study | Duration | Purpose of the study | Partners (Institutions)
---|---|---|---
Surveillance of avian influenza in Mongolia | 13 years | Monitoring of avian influenza | State Central Veterinary Laboratory

**ToR: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases**

11. Did your Laboratory collect epizootiological data relevant to international disease control?

No

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

No

13. What method of dissemination of information is most often used by your laboratory?

*Indicate in the appropriate box the number by category*

a) Articles published in peer-reviewed journals: 23


b) International conferences: 5

2013 Hiroshi Kida: Invited Speaker, “For the control of highly pathogenic avian and pandemic influenza” The 17th FAVA Congress, The Grand Hotel, Taipei, Taiwan, 4-7 January 2013.


c) National conferences: 0
d) Other:
(Provide website address or link to appropriate information) 1
http://virusdb.czc.hokudai.ac.jp/

ToR: To provide scientific and technical training for personnel from OIE Member Countries
To recommend the prescribed and alternative tests or vaccines as OIE Standards

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

Yes

a) Technical visits: 2
b) Seminars: 0
c) Hands-on training courses: 9
d) Internships (>1 month): 0

<table>
<thead>
<tr>
<th>Type of technical training provided (a, b, c or d)</th>
<th>Country of origin of the expert(s) provided with training</th>
<th>No. participants from the corresponding country</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Chinese Taipei</td>
<td>2</td>
</tr>
<tr>
<td>b</td>
<td>Cambodia</td>
<td>2</td>
</tr>
<tr>
<td>b</td>
<td>Kosovo</td>
<td>1</td>
</tr>
<tr>
<td>b</td>
<td>Myanmar</td>
<td>2</td>
</tr>
<tr>
<td>b</td>
<td>Sri Lanka</td>
<td>1</td>
</tr>
<tr>
<td>b</td>
<td>Tonga</td>
<td>1</td>
</tr>
<tr>
<td>b</td>
<td>Uganda</td>
<td>1</td>
</tr>
<tr>
<td>b</td>
<td>Zambia</td>
<td>1</td>
</tr>
</tbody>
</table>

ToR: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System certified according to an International Standard?

No

<table>
<thead>
<tr>
<th>Explain Quality Management System in adoption process or currently in place</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO/IEC 17025 in preparation</td>
</tr>
</tbody>
</table>
16. Is your laboratory accredited by an international accreditation body?
No

17. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?
Yes

(See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals 2012, Chapter 1.1.3 or Manual of Diagnostic Tests for Aquatic Animals 2012, Chapter 1.1.1)

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

18. Did your laboratory organise scientific meetings on behalf of the OIE?
No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?
No

**ToR: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results**

20. Did your laboratory exchange information with other OIE Reference Laboratories designated for the same pathogen or disease?
Yes

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?
Yes

<table>
<thead>
<tr>
<th>Purpose of the proficiency tests: 1</th>
<th>Role of your Reference Laboratory (organiser/participant)</th>
<th>No. participants</th>
<th>Participating OIE Ref. Labs/organising OIE Ref. Lab.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Real time PCR</td>
<td>participant</td>
<td>10</td>
<td>AHVLA, UK AAHL, Australia NVSL, USA IZSVe, Italy Hokkaido University, Japan HSADL, India SEPRL, USA</td>
</tr>
</tbody>
</table>

1 validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.

22. Did your laboratory collaborate with other OIE Reference Laboratories for the same disease on scientific
research projects for the diagnosis or control of the pathogen of interest?

Yes

<table>
<thead>
<tr>
<th>Title of the project or contract</th>
<th>Scope</th>
<th>Name(s) of relevant OIE Reference Laboratories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improvement LAMP method for avian influenza diagnosis</td>
<td>technical discussion</td>
<td>Sasan Fereidouni, Institute of Diagnostic Virology, Friedrich-Loeffler-Institute, Germany</td>
</tr>
</tbody>
</table>

**ToR: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results**

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

No

*Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at: http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing see point 1.3*

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

24. Did your laboratory place expert consultants at the disposal of the OIE?

No

25. Additional comments regarding your report: