**WOAH Reference Laboratory Reports Activities 2023**

**Activities in 2023**

This report has been submitted: 30 juin 2024 03:06

### Laboratory Information

<table>
<thead>
<tr>
<th>Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:</th>
<th>Antimicrobial Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address of laboratory:</td>
<td>Animal and Plant Health Agency, New Haw, Addlestone Surrey KT15 3NB Weybridge UNITED KINGDOM</td>
</tr>
<tr>
<td>Tel:</td>
<td>+44-20 8026 2578</td>
</tr>
<tr>
<td>E-mail address:</td>
<td><a href="mailto:Christopher.Teale@apha.gov.uk">Christopher.Teale@apha.gov.uk</a></td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://apha.defra.gov.uk/apha-scientific/index.htm">http://apha.defra.gov.uk/apha-scientific/index.htm</a></td>
</tr>
<tr>
<td>Name (including Title) of Head of Laboratory (Responsible Official):</td>
<td>Mr D. Holdsworth, Chief Executive, Animal and Plant Health Agency</td>
</tr>
<tr>
<td>Name (including Title and Position) of WOAH Reference Expert:</td>
<td>Dr Christopher Teale MRCVS, Head of Antimicrobial Resistance</td>
</tr>
<tr>
<td>Which of the following defines your laboratory? Check all that apply:</td>
<td>Veterinary Surveillance Governmental Research agency</td>
</tr>
</tbody>
</table>

### TOR1: Diagnostic Methods

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 WOAH Manual (Yes/No)</th>
<th>Total number of test performed last year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indirect diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No indirect tests routinely performed.</td>
<td>Yes/No</td>
<td>Internationally</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disc diffusion susceptibility test</td>
<td>Yes</td>
<td>10158</td>
</tr>
<tr>
<td>Determination of minimum inhibitory concentration (MIC)</td>
<td>Yes</td>
<td>19289</td>
</tr>
<tr>
<td>Whole genome sequencing</td>
<td>Yes</td>
<td>110</td>
</tr>
</tbody>
</table>

### TOR2: Reference Material

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

   No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAH Members?

   No

4. Did your laboratory produce vaccines?

   Not applicable

5. Did your laboratory supply vaccines to WOAH Members?

   Not applicable

### TOR3: New Procedures
6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?
No

7. Did your laboratory validate diagnostic methods according to WOAH Standards for the designated pathogen or disease?
No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?
No

9. Did your laboratory validate vaccines according to WOAH Standards for the designated pathogen or disease?
No

** TOR4: DIAGNOSTIC TESTING FACILITIES **

10. Did your laboratory carry out diagnostic testing for other WOAH Members?
No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAH Member?
No

** TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES **

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own?
Yes

<table>
<thead>
<tr>
<th>Title of the study</th>
<th>Duration</th>
<th>PURPOSE OF THE STUDY</th>
<th>PARTNERS (INSTITUTIONS)</th>
<th>WOAH MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMR surveillance at live bird markets in Bangladesh</td>
<td>2 years</td>
<td>Determine prevalence of AMR</td>
<td>Central Disease Investigation Laboratory, Dhaka, Bangladesh</td>
<td>BANGLADESH</td>
</tr>
<tr>
<td>MDR non-typhoidal Salmonella in migratory birds</td>
<td>4 years</td>
<td>Determine prevalence and AMR of non-typhoidal Salmonella in wild birds</td>
<td>Bangladesh Livestock Research Institute</td>
<td>BANGLADESH</td>
</tr>
<tr>
<td>Prevalence and AMR of Salmonella in eggs</td>
<td>1 year</td>
<td>AMR in Salmonella</td>
<td>University of Ghana</td>
<td>GHANA</td>
</tr>
</tbody>
</table>

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

**Research need: 1**

*Please type the Research need: BioRisk of AMR/bacterial pathogen combinations.*

*Relevance for WOAH Disease Control, Other, Facilitation of international collaboration,*

*Relevance for the Codes or Manual Code,*

*Field Epidemiology and Surveillance, Diagnostics,*

*Animal Category Terrestrial,*

*Disease: Antimicrobial resistance*

*Kind of disease (Zoonosis, Transboundary diseases) Zoonosis,*

*If any, please specify relevance for Codes or Manual, chapter and title (e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)*

*Answer:*

*Notes:*

*Answer:*

** TOR6: EPIZOOLOGICAL DATA **

14. Did your Laboratory collect epidemiological data relevant to international disease control?
Yes
15. Did your laboratory disseminate epidemiological data that had been processed and analysed?  
Yes

IF THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:
AMR surveillance data

16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

4


b) International conferences:

2
Ramon P. Maluping*, Remedios F. Micu, Thomas Chisnall, Alistair Davies, Evelyn E. Embestro, Mary Ann Escota, Mildred A. Padilla and Roderick Card. Prevalence of Extended-Spectrum Beta-Lactam (ESBL) and Colistin Resistance in Escherichia coli Isolated from Broiler Chickens in Dressing Plants in the Philippines. 9th Symposium on Antimicrobial Resistance in Animals and the Environment (ARAE), Tours, France. 3-5 July, 2023


c) National conferences:

1

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

**TOR7: SCIENTIFIC AND TECHNICAL TRAINING**

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members?
   Yes
   
   a) Technical visit : 0
   b) Seminars : 4
   c) Hands-on training courses: 0
   d) Internships (>1 month) 1

<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>B</td>
<td>MALAWI</td>
<td>36</td>
</tr>
<tr>
<td>D</td>
<td>NIGERIA</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOR8: QUALITY ASSURANCE**

18. Does your laboratory have a Quality Management System?
   Yes

<table>
<thead>
<tr>
<th>Quality management system adopted</th>
<th>Certificate scan (PDF, JPG, PNG format)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO17025</td>
<td>pdf</td>
</tr>
</tbody>
</table>

19. Is your quality management system accredited?
   Yes

<table>
<thead>
<tr>
<th>Test for which your laboratory is accredited</th>
<th>Accreditation body</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc diffusion test</td>
<td>UK Accreditation Service (UKAS)</td>
</tr>
</tbody>
</table>

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

   The risk of the combination of AMR and the pathogen / host bacterium are evaluated.

**TOR9: SCIENTIFIC MEETINGS**

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAH?
   No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAH?
   No

**TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES**

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease?
   Not applicable (only WOAH Reference Laboratory designated for the disease)

24. Do you network (collaborate or share information) with other WOAH Reference Laboratories designated for the same pathogen?
   Not applicable (Only WOAH Reference Laboratory designated for the disease)

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen?
   Not applicable (Only WOAH Reference Laboratory designated for the disease)

26. Did your laboratory collaborate with other WOAH Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?
   Not applicable (Only WOAH Reference Laboratory designated for the disease)

**TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING**

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOAH Reference Laboratories for the same pathogen?
No

**TOR12: EXPERT CONSULTANTS**

28. Did your laboratory place expert consultants at the disposal of WOAH?
Yes

<table>
<thead>
<tr>
<th>KIND OF CONSULTANCY</th>
<th>Location</th>
<th>SUBJECT (FACULTATIVE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Responding to specific technical queries from WOAH</td>
<td>UK</td>
<td>Review of WOAH courses and guidance.</td>
</tr>
</tbody>
</table>

29. Additional comments regarding your report:
Yes

*An AMR proficiency testing scheme was paused in 2023 while countries from sub-Saharan Africa were recruited.*