

## **WOAH Regional Hands-on Training on Zoonotic TB Diagnosis**

1-5 September, Qingdao, China P.R.

Jointly with the China Animal Health and Epidemiology Centre (CAHEC), Ministry of Agriculture and Rural Affairs of the People's Republic of China

### **Draft Agenda**

From	To	Programme	Presenter/Facilitator
<b>Day 1: 1 September 2025</b>			
<b>Registration: 8:30 – 9 AM CAHEC</b>			
<b>Venue: CAHEC for all laboratory training</b>			
<b>Session 1.1 Opening Session</b>			
9:00	10:00	<ul style="list-style-type: none"> <li>- Welcome remarks</li> <li>- Introduction of participants</li> <li>- Training objectives</li> </ul>	CAHEC, WOAHA
<b>10:00</b>	<b>10:30</b>	<b>Group photo and coffee break</b>	
<b>Session 1.2 Introduction and sharing of national experiences</b>			
10:30	12:00	<ol style="list-style-type: none"> <li>1. WOAHA Standards on zoonotic TB/bovine TB control including recommended diagnostic tests (15 mins)</li> <li>2. Bovine TB control experiences in China (15 mins)</li> <li>3. Country experiences on zTB diagnosis, surveillance and control (50 min)</li> </ol>	<ol style="list-style-type: none"> <li>1. WOAHA HQ TBC</li> <li>2. CAHEC</li> <li>3. 10 countries x 5 minutes each</li> </ol>
12:00	12:30	Q & A	
<b>12:30</b>	<b>13:30</b>	<b>Lunch</b>	
<b>Session 1.3 Hands-on laboratory training on delayed hypersensitivity skin tests</b>			
13:30	15:30	<ul style="list-style-type: none"> <li>- Principle of tuberculin skin testing (TST)</li> <li>- Procedures for administering and reading reactions</li> <li>- Interpretation and limitations</li> <li>- Practical demo /videos</li> </ul> <p>Coffee break to be adjusted during training</p>	CAHEC
<b>Session 1.4 Bacterial culture techniques</b>			
15:30	17:00	<ul style="list-style-type: none"> <li>- Principles and methods of culturing <i>Mycobacterium bovis</i>, isolation and identification</li> </ul>	CAHEC
18:00	20:00	Welcome Dinner hosted by WOAHA	Venue TBD

### **Day 2: 2 September 2025**

#### **Session 2.1 Hands-on laboratory training: Interferon Gamma Release Assay (IGRA)**

9:00	10:30	<ul style="list-style-type: none"> <li>- Recap of Day 1 (participant)</li> <li>- Immunological basis of IGRA for TB detection</li> </ul>	CAHEC
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		<ul style="list-style-type: none"> <li>- Sample collection and processing</li> <li>- Advantages over traditional skin testing</li> </ul>	
10:30	11:00	Tea/coffee break	
11:00	12:30	Practical on processing of blood samples	Participants, CAHEC
12:30	13:30	Lunch	
13:30	16:30	IGRA – Continue practical training on collection of supernatant liquid and ELISA for gamma interferon  Coffee break to be adjusted during training	Dr Zhang Haobo, CAHEC
16:30	17:00	Q&A and feedback	CAHEC/WOAH

### Day 3: 3 September 2025

#### Session 3.1 Enzyme-Linked Immunosorbent Assay (ELISA) Antibody Test

9:00	10:30	<ul style="list-style-type: none"> <li>- Recap of Day 2 (Participant)</li> <li>- Mechanism and application in bovine TB diagnosis</li> <li>- Protocol for conducting ELISA in the lab</li> <li>- Data interpretation and troubleshooting</li> </ul>	CAHEC
10:30	11:00	Tea/coffee break	
11:00	12:30	ELISA practical and reading of results	Participants, CAHEC
12:30	13:30	Lunch	
13:30	16:30	<ul style="list-style-type: none"> <li>- ELISA practical</li> <li>- processing of TST and reading of results</li> <li>- Interpretation</li> </ul> Coffee break to be adjusted during training	Dr Liu Mengda, CAHEC
16:00	17:00	Q&A	CAHEC/WOAH

### Day 4: 4 September 2025

#### Session 4.1 PCR-Based Detection of Mycobacterium bovis

9:00	10:30	<ul style="list-style-type: none"> <li>- Recap of Day 3 (participant)</li> <li>- Overview of molecular diagnostics in TB detection</li> </ul>	Mengda Liu, CAHEC
10:30	11:00	Tea/coffee break	
11:00	12:30	<ul style="list-style-type: none"> <li>- DNA extraction protocols</li> <li>- Real-time PCR techniques and interpretation</li> </ul>	Dr Zhang Haobo CAHEC
12:30	13:30	Lunch	

13:30	16:30	Practical on PCR continued Reading and interpretation  <a href="#">Coffee break to be adjusted during training</a>	CAHEC
16:30	17:00	Q&A	CAHEC/WOAH

### Day 5: 5 September 2025

#### Session 5.1 Lateral Flow antibody tests

9:00	10:30	<ul style="list-style-type: none"> <li>- Recap of Day 4 (participant)</li> <li>- Overview of rapid serological testing</li> <li>- Comparison with ELISA for TB detection</li> <li>- Video demo</li> </ul>	Mengda Liu, CAHEC
<a href="#">10:30</a>	<a href="#">11:00</a>	<a href="#">Tea/coffee break</a>	

#### Session 5.2 Quality Control and Compliance

11:00	12:00	<ul style="list-style-type: none"> <li>- Standard operating procedures in TB diagnostics</li> <li>- Good laboratory practices (GLP)</li> <li>- Accreditation and regulatory compliance</li> <li>- Common pitfalls and troubleshooting diagnostic errors</li> </ul>	Mengda Liu, CAHEC
<a href="#">12:00</a>	<a href="#">13:00</a>	<a href="#">Lunch</a>	

#### Session 5.3 Laboratory proficiency testing for zTB diagnosis

13:00	14:00	<ul style="list-style-type: none"> <li>- Discussions on laboratory proficiency testing</li> <li>- Identification of countries interested in pursuing PT schemes (CAHEC plans to send nucleic acid samples with PCR kits with the participants on return)</li> </ul>	CAHEC/WOAH
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#### Session 5.4 Closing and evaluation

14:00	14:30	<ul style="list-style-type: none"> <li>- Training evaluation</li> <li>- award of certificates</li> </ul>	CAHEC/WOAH
<a href="#">14:30</a>	<a href="#">17:00</a>	<a href="#">Tea/coffee break and Field visits organised by CAHEC</a>	
		End of training program	