

WOAH Reference Laboratory Reports Activities 2024

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LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Varroosis of of honey bees
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*Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Richard Thiéry
*Name (including Title and Position) of WOAH Reference Expert:	Dr Marie-Pierre CHAUZAT (WOAH expert for Nosemosis, American foulbrood; European foulbrood and varroosis; Head the European laboratory for honeybee health)
*Which of the following defines your laboratory? Check all that apply:	Research agency

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

Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
	No		
Direct diagnostic tests		Nationally	Internationally
Recherche des lésions caractéristiques de la varroose et de Varroa destructor	Yes	0	0

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Comptage des acariens macroscopiques phorétiques, Varroa destructor et Tropilaelaps spp., sur un lot d'abeilles	Yes	0	0
Identification de Varroa spp. par PCR et séquençage	No	1	0

TOR2: REFERENCE MATERIAL

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

No

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

No

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOA?H 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 WOA?H 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 WOA?H Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOA?H Members?

No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOA?H Member?

Yes

Name of the WOA?H Member Country receiving a technical consultancy	Purpose	How the advice was provided
IRAN	Echanges autour d'un projet de collaboration pour le diagnostic de l'acarien et d'autres maladies de l'Abeille	Mails Echanges dans le cadre d'un congrès scientifique
SRI LANKA	Echanges autour de la mise en place d'un projet de collaboration autour du diagnostic de plusieurs	Mails

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	maladies de l'Abeille	
UKRAINE	Echange autour de la possibilité de participer à des essais interlaboratoires, notamment sur Varroa	Mails
FRANCE - FRENCH GUIANA	Echanges autour de l'identification de Varroa jacobsoni	Mails et réunion en visioconférence
FINLAND	Protocole d'éradication de Varroa destructor sur les îles d'Aland	Mails, réunion en visioconférence, expertise sur documents

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

No

TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:

Le laboratoire assure également une veille sanitaire sur la diffusion de Varroa spp. au niveau international. L'année 2024 a notamment été marquée par la détection de Varroa jacobsoni dans des ruches sentinelles en Australie, à proximité du port de Brisbane (Etat du Queensland).
Cf. notification WAHIS du 29/02/2024. Le suivi de la situation peut être consultée sur le site : <https://www.outbreak.gov.au/current-outbreaks/varroa-mite>

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

No

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:

b) International conferences:

0

c) National conferences:

3

Franco, S. 2024. « Règlements pour les importations et échanges d'abeilles et de bourdons, exemples de risques sanitaires ». Diplôme inter-écoles vétérinaires (DIE) Diagnostic et gestion sanitaire d'une exploitation apicole, pathologie apicole. Oniris, Nantes, France. 8 mars 2024. Cette conférence a abordé, entre autres, la question de la protection des territoires européens indemnes de Varroa.

- Franco, S. 2024. « Bonnes pratiques de prélèvement en vue d'analyses dans le domaine apicole ». Diplôme inter écoles Diagnostic et gestion sanitaire d'une exploitation apicole, pathologie apicole. Oniris, Nantes, France. 9 mars 2024. Cette conférence a abordé, entre autres, les méthodes d'analyses disponibles pour le diagnostic de Varroa et les bonnes pratiques de prélèvement pour conditionner les échantillons dans ce cadre.

- Stéphanie Franco, Eric Dubois, Véronique Duquesne, Karim Sidi-Boumedine. Les interactions entre vétérinaires apicoles et les laboratoires d'analyses en infectiologie - Volet "laboratoires". Rencontres Vétérinaires Apicoles, Oniris, Oct 2024, Visio-conférence, France. Le sujet du diagnostic de l'infestation par Varroa a été entre autres abordé lors de cette conférence.

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

1

Le laboratoire diffuse des informations sur Varroa sur le site Internet du LRUE : <https://eurl-bee.anses.fr/en/minisite/abeilles/welcome-website-eu-rl-bee-health>

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOA Members?

No

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO 17025	ISO 17025	1_2249_Cofrac__Notification accréditation_2024.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Recherche des lésions caractéristiques de la varroose et de Varroa destructor	COFRAC

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

No

Différentes mesures de biosécurité et de biosûreté sont mises en place pour gérer de façon générale le risque biologique au sein du laboratoire (gestion des déchets, nettoyage/désinfection, contrôle des accès aux locaux et au système informatique, procédures

techniques pour la réception des échantillons et les analyses, formation des personnels...). Elles sont inscrites dans le système qualité du laboratoire.

TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOA?

No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOA?

No

TOR10: NETWORK WITH WOA REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOA Reference Laboratories designated for the same pathogen or disease?

Yes

24. Do you network (collaborate or share information) with other WOA Reference Laboratories designated for the same pathogen?

Yes

NETWORK/DISEASE	ROLE OF YOUR LABORATORY (PARTICIPANT, ORGANISER, ETC)	NO. PARTICIPANTS	PARTICIPATING WOA REF. LABS
WOA ref lab for varroose	participants	3	Germany New-Zealand France

25. Did you organise or participate in inter-laboratory proficiency tests with WOA Reference Laboratories designated for the same pathogen during the past 2 years?

No

No ILPT was organised

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

No

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOA Reference Laboratories for the same pathogen during the past 2 years?

No

No ILPT was organised

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

Yes

V. destructor mites are present all over the world with very few exceptions, for more than 40 years. Therefore, these mites are very well

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known from the scientific community. We have not requested any trainings concerning the identification of the mite since many years. Indeed very little international activity was done in 2024 on Varroosis. However, the laboratory has a range of tools for detecting and identifying varroa spp. in pest-free areas.

In additional, the laboratory is involved in setting up and analysing new tools for detecting parasite resistance to the various molecules used to control varroa mites.

We would be interested in participating in any available proficiency test, but to our knowledge no such test has been scheduled for 2024.

An annual meeting between the three WOA reference laboratories on this disease has been set up. It has been scheduled for early 2025.