

WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 29 mai 2024 16:30

Laboratory Information

| | |
|--|---|
| Name of disease (or topic) for which you are a designated WOA Reference Laboratory: | Varroosis |
| Address of laboratory: | |
| Tel.: | +33 (0)4 92 94 37 00 |
| E-mail address: | marie-pierre.chauzat@anses.fr |
| Website: | https://www.anses.fr/fr |
| Name (including Title) of Head of Laboratory (Responsible Official): | Dr. Richard Thiéry (Head of the Anses Sophia Antipolis Laboratory) |
| Name (including Title and Position) of WOA Reference Expert: | Dr Marie-Pierre CHAUZAT (WOAH expert for Nosemosis, American foulbrood; European foulbrood, varroosis and noseamosis; 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 WOA Manual (Yes/No) | Total number of test performed last year | |
|---|----------------------------------|--|-----------------|
| | | Nationally | Internationally |
| Indirect diagnostic tests | | | |
| none | | 0 | 0 |
| Direct diagnostic tests | | | |
| Mise en évidence de Varroa destructor par examen direct | | 0 | 0 |
| Recherche de la varroose par examen des lésions | | 0 | 0 |
| | | 1 | 0 |

TOR2: REFERENCE MATERIAL

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

No

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

Yes

| TYPE OF REAGENT AVAILABLE | RELATED DIAGNOSTIC TEST | PRODUCED/ PROVIDE | AMOUNT SUPPLIED NATIONALLY (ML, MG) | AMOUNT SUPPLIED INTERNATIONALLY (ML, MG) | NO. OF RECIPIENT WOA MEMBER COUNTRIES | COUNTRY OF RECIPIENTS |
|--------------------------------|------------------------------|--------------------------------------|-------------------------------------|--|---------------------------------------|-----------------------|
| Spécimens de Varroa destructor | Identification morphologique | Acariens conditionnés dans l'éthanol | 1 tube contenant quelques spécimens | 0 | 1 | FRANCE, |

4. Did your laboratory produce vaccines?

Not applicable

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

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

No

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

Yes

| Title of the study | Duration | PURPOSE OF THE STUDY | PARTNERS (INSTITUTIONS) | WOAHA MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY |
|--|----------|--|--|---|
| Collecte de specimens de Varroa et Tropilaelaps en Thaïlande | 2 ans | Collecter des spécimens d'acariens (<i>Tropilaelaps clareae</i> et <i>mercedesae</i> , et <i>Varroa destructor</i>) dans des colonies d'abeilles domestiques d' <i>Apis mellifera</i> et d'abeilles sauvages d' <i>Apis dorsata</i> . Ce projet a pour objectif d'alimenter la collection de référence du laboratoire. | Université de Chiang Mai (Thaïlande), CIRAD (France) et laboratoire Anses de Sophia Antipolis. Ce projet a été financé par l'Union Européenne (UE) dans le cadre du mandat de l'Anses de Laboratoire de référence de l'UE (LRUE) pour la santé des abeilles. | THAILAND |

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

No

TOR6: EPIZOOLOGICAL DATA

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

No

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:

1

Benjamin POIROT, Gabrielle Almecija, Précillia Cochard, Christelle SUPPO, Veronique Duquesne, Paulo Mielgo4, Max Watkins, Joel González-Cabrera. 2023. "Varroa destructor resistance to acaricides: an overview of the situation in France". APIMONDIA, Chile, 4 et 8 sept 2023. Participation à la préparation de la présentation et des travaux présentés.

c) National conferences:

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Franco, S. 2023. « Résilience en apiculture en contexte de changement climatique : perspectives sanitaires. » Journées vétérinaires apicoles. Nantes, France. 18-20 octobre 2023. Cette conférence a abordé, entre autres, le risque lié à Varroa dans le contexte de changement climatique.

Franco, S. 2023. « 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. 10 mars 2023. Cette conférence a abordé, entre autres, le risque de dispersion de Varroa via les échanges internationaux, et la réglementation sanitaire en vigueur.

Franco, S. 2023. « 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. 10 mars 2023. Cette conférence a abordé, entre autres, les méthodes d'analyses disponibles pour le diagnostic de la varroose et les bonnes pratiques de prélèvement pour conditionner les échantillons dans ce cadre.

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 H 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 | pdf | ANSES_Cofrac.pdf |

19. Is your quality management system accredited?

Yes

| Test for which your laboratory is accredited | Accreditation body |
|---|--------------------|
| Mise en évidence de Varroa destructor par examen direct | cofrac |

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

Yes

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 H?

No

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

No

TOR10: NETWORK WITH WOA H 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 |
|-----------------|--|------------------|-----------------------------|
| Voorose | Organiser | 1 | OMSA lab |

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

No

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?

No

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 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 2023 on Varroosis.