

WOAH Reference Laboratory Reports Activities 2024

This report has been submitted: 14 janvier 2025 16:25

LABORATORY INFORMATION

*Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Varroosis of of honey bees	
*Address of laboratory:	Friedrich-Loeffler-Institut, Südufer 10, 17493 Greifswald - Insel Riems	
*Tel:	+49-38351 7 1246	
*E-mail address:	marc.schaefer@fli.de	
Website:	https://www.fli.de/en/institutes/institute-of-infectology-imed/reference-laboratories/woah- and-nrls-for-bee-diseases/	
*Name (including Title) of Head of Laboratory (Responsible Official):	Dr. phil. nat. Marc O. Schäfer, head of the NRL for bee diseases	
*Name (including Title and Position) of WOAH Reference Expert:	Dr. phil. nat. Marc O. Schäfer, head of the NRL for bee diseases	
*Which of the following defines your laboratory? Check all that apply:	Governmental	

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)

Y	e	<u>s</u>

Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Direct diagnostic tests		Nationally	Internationally
Alcohol wash test	Yes	88	

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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?

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

No

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

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?

WOAH Reference Laboratory Reports Activities 2024



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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:

2

 Allele Frequencies of Genetic Variants Associated with Varroa Drone Brood Resistance (DBR) in Apis mellifera Subspecies across the European Continent, Lefebre et al. Insects 2024, 15, 419. https://doi.org/10.3390/insects15060419
Reliable molecular detection of small hive beetles, Orlando Yañez, Marga van Gent-Pelzer, Anna Granato, Marc Oliver Schäfer, Peter Neumann, NeoBiota 95: 279–290 (2024) DOI: 10.3897/neobiota.95.124673

b) International conferences:

3

1) Control of SHB with in-hive traps & control in the soil, Miel Vert, La Reunion, 7.1.2024

2) Overview of Aethina tumida in Europe, Apimondia webinar on invasive species in Europe, 26.3.2024, online

3) Small hive beetle task force, COLOSS, Wageningen, 12/13.11.2024

c) National conferences:

2

1) Methodenspektrum NRL & aktuelle Situation meldepflichtiger Bienenseuchen, Beratung der AG Bienengesundheit M-V, Rostock, 18.4.2024

2) Neue invasive Feinde der Honigbiene, 150 Jahre Greifswalder Imkerverein, HGW 23.11.2024

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

1

1) Member of the Advisory Board of the project "Best Practices and Innovations for A Sustainable Beekeeping- B-Thenet" funded by the Horizon Europe Program of the European Commission: HORIZON-CL6-2021-GOVERNANCE-01-28- Grant Agreement number: 101059812 for its duration (from 01/09/2022 to 31/08/2026); https://www.bthenet.eu/

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members? No

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes



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Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
DIN EN ISCVIEC 17025:2018	Akkreditierungsurkunde_2024.pdf	Akkreditierungsurkunde_2024.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Identification of Varroa destructor	Deutsche Akkreditierungsstelle GmbH (DAkkS)

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

Extensive biosecurity management with monthly meetings of a biosecurity council including an ethical council for validation of gainoffunction/ DURC-related research.

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?

Yes

24. Do you network (collaborate or share information) with other WOAH Reference Laboratories designated for the same pathogen? No

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

No

We are willing to participate in any proficiency test available, but there has been no such test in 2024. Varroosis is ubiquitous in Germany and actually nearly worldwide and the Varroa mites are easy to spot in infested colonies, as they are large enough that one can spot it with the naked eye. Therefore identification is straightforward and no proficiency tests are needed to my opinion.

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?

No

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 during the past 2 years?

No



See answer to question 25

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

Yes

We are performing Varrosis diagnosis frequently and I am discussing Varrosis with colleagues at all kind of scientific meetings. However, as said before, the mite Varroa destructur is very easy to recognize and every beekeeper can spot it with the naked eye if he doesn't have an eye problem. Therefore identification is straightforward and no proficiency tests are needed to my opinion.