

# OIE Reference Laboratory Reports Activities

## *Activities in 2020*

**This report has been submitted : 2021-01-08 11:52:10**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Varroosis
<b>Address of laboratory:</b>	National Reference Laboratory for Bee Diseases Friedrich-Loeffler-Institut Federal Research Institute for Animal Health Institute of Infectology Südufer 10 17493 Greifswald - Insel Riems GERMANY
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<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Dr. Marc O. Schäfer
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Dr. phil. nat. Marc O. Schäfer, head of the NRL for bee diseases
<b>Which of the following defines your laboratory? Check all that apply:</b>	Governmental

**ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards**

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 OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
Direct diagnostic tests			
visual identification after washing of honeybee samples	yes	30	13

**ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards. To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.**

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

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

***ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases***

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

***ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries***

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

No

***ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations***

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
B-GOOD - Giving beekeeping guidance by computational-assisted decision making	June 2019 - May 2023	B-GOOD has the overall goal to provide guidance to beekeepers and help them make better and more informed decisions	Universiteit Gent, Stichting Wageningen Research, BeeSources di Raffaele Dall'Olio, Pensoft Publishers, Institut National de la Recherche Agronomique, Martin-Luther-Universität Halle-Wittenberg, Universitatea de Stiinte Agricole si Medicina Veterinara Cluj Napoca, Aarhus Universitet, Universidade de Combria, The Nottingham Trent University, Universität Bern, Stichting BEEP, Suomen Mehiläishoitajain liitto SML ry, Uniwersytet Jagiellonski, Sciensano, SCIPROM Sari	BELGIUM BULGARIA FINLAND FRANCE ITALY POLAND PORTUGAL ROMANIA SWITZERLAND THE NETHERLANDS UNITED KINGDOM

***ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases***

11. Did your Laboratory collect epizootiological data relevant to international disease control?

No

If the answer is no, please provide a brief explanation of the situation:
Varroosis is not notifiable

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

No

If the answer is no, please provide a brief explanation of the situation:
Varroosis is not notifiable

**13. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category)**

a) Articles published in peer-reviewed journals: 4

Journal of Apicultural Research, 2020: Controlling small hive beetles, *Aethina tumida*, in western honey bee (*Apis mellifera*) colonies by trapping wandering beetle larvae; Karsten Stief, Bram Cornelissen, James D. Ellis, Marc O. Schäfer

Veterinary Sciences, 2020: Overt infection with chronic bee paralysis virus (CBPV) in two honey bee colonies; Julia

Dittes, Marc O. Schäfer, Heike Aupperle-Lellbach, Christoph K. W. Mülling, Ilka U. Emmerich  
 Veterinary Sciences, 2020: Veterinary Diagnostic Approach of Common Virus Diseases in Adult Honeybees; Julia  
 Dittes, Heike Aupperle-Lellbach, Marc O. Schäfer, Christoph K. W. Mülling, Ilka U. Emmerich  
 Berliner und Münchener Tierärztliche Wochenschrift, 2020: Ringversuch zum Nachweis von Paenibacillus larvae,  
 dem Erreger der Amerikanischen Faulbrut; Marc O. Schäfer, Werner von der Ohe, Hannes Beims, Susanne Fischer

b) International conferences: 2

COLOSS eConference, 2020: State of the art: small hive beetle biology and control; Peter Neumann, Bram  
 Cornelissen, Marc O. Schäfer  
 Annual Workshop of the EU reference laboratory for bee health and the network of national reference  
 laboratories, remote meeting - Skype conference, 2020: Activities of the NRL and current honeybee health status  
 in Germany; Marc O. Schäfer

c) National conferences: 1

10. Leipziger Tierärztekongress, Leipzig, Germany, 2020: Vorbereitet auf die Invasion? Neue  
 Bekämpfungsstrategien gegen den Kleinen Beutenkäfer; Marc O. Schäfer

d) Other:

(Provide website address or link to appropriate information) 1

ATF-Modulreihe Bienen - Modul 3, Gießen, Germany, 2020: Der Kleine Beutenkäfer: Die aktuelle  
 Tierseuchensituation in Europa - Auswirkungen auf die Imkerei; Marc O. Schäfer

**ToR 7: To provide scientific and technical training for personnel from OIE Member Countries  
 To recommend the prescribed and alternative tests or vaccines as OIE Standards**

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

No

**ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned**

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
DIN EN ISO/IEC 17025:2018	Akkreditierungsurkunde_2019.pdf

16. Is your quality management system accredited?

No

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

Yes

*(See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4)***ToR 9: To organise and participate in scientific meetings on behalf of the OIE**

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
10. Leipziger Tierärztekongress	01/2020	Leipzig, Germany	Speaker	Vorbereitet auf die Invasion? Neue Bekämpfungsstrategien gegen den Kleinen Beutenkäfer
COLOSS SHB Task Force	02/2020	Lamezia Terme, Italy	Speaker	Alternative ideas for treatment of infested soil
COLOSS eConference	10/2020	online	Co-speaker	State of the art: small hive beetle biology and control

**ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results**

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

Yes

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

No

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

No

**ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results**

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

No

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at:  
<http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing> see point 1.3

**ToR 12: To place expert consultants at the disposal of the OIE**

24. Did your laboratory place expert consultants at the disposal of the OIE?

No

25. Additional comments regarding your report: