

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-01-05 16:47:32

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Tropilaelaps spp.
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Name (including Title) of Head of Laboratory (Responsible Official):	Richard Thiéry (Directeur du laboratoire de l'Anses - Sophia Antipolis)
Name (including Title and Position) of OIE Reference Expert:	Stéphanie Franco (Responsable du Laboratoire national de référence sur la Santé des abeilles en France, Scientifique en charge des diagnostics macro et microscopiques au sein du laboratoire de l'Anses - Sophia Antipolis)
Which of the following defines your laboratory? Check all that apply:	Governmental Research

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)

No

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?

Yes

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

No

Name of the new test or diagnostic method or vaccine developed	Description and References (Publication, website, etc.)
Méthode d'identification rapide de Tropilaelaps par une méthode de COI barcode-HRM	Del Cont A., De Georges B., Huleux A., Duquesne, V. (2021). Rapid identification of Tropilaelaps mite (Mesostigmata: Laelapidae) species using a COI barcode-HRM. Journal of Economic Entomology, Volume 114, Issue 2, April 2021, Pages 520-529 ; doi: 10.1093/jee/toaa330

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?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
COLOMBIA	Conseil sur la mise en place de méthodes d'analyse, la possibilité de participer à des essais inter-laboratoires et la possibilité d'avoir accès à des matériaux de référence.	Par email.

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
Collecte de spécimens de Tropilaelaps en Thaïlande	En cours de déploiement (collecte prévue en 2022).	Obtenir un nombre élevé d'acariens Tropilaelaps pour : (i) Maintenir et alimenter les collections internes du laboratoire, et pouvoir disséminer des échantillons de référence aux réseaux de laboratoires (ii) Maintenir la capacité des réseaux de laboratoire à diagnostiquer l'infestation par l'organisation d'essais inter-laboratoires, (iii) Consolider les données de validation des méthodes de diagnostic de référence.	Université de Chiang Mai (Thaïlande), CIRAD (antenne du Vietnam), Anses Sophia Antipolis (LRUE for Bee Health)	FRANCE THAILAND

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:

La France est indemne de ce parasite.

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:

La France est indemne de ce parasite.

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: 1

Del Cont A., De Georges B., Huleux A., Duquesne, V. (2021). Rapid identification of Tropilaelaps mite (Mesostigmata: Laelapidae) species using a COI barcode-HRM.

Journal of Economic Entomology, Volume 114, Issue 2, April 2021, Pages 520-529

; doi: 10.1093/jee/toaa330

b) International conferences: 1

Franco, S. "Surveillance system in European Union". OIE Virtual regional workshop on honey bee diseases in Asia

and the Pacific. 24/08/2021.

c) National conferences: 1

Franco, S. Interventions dans le cadre du Diplôme Inter-Ecoles d'Apiculture et Pathologie apicole (vétérinaires français). "Règlements à l'import-export, Exemples de risques sanitaires liés aux échanges d'abeilles". 05/02/2021.

d) Other:

(Provide website address or link to appropriate information) 0

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)
ISO 17025	2.Attestation 1-2249 révision 12.pdf
ISO 17043	

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Identification de Tropilaelaps par examen morphologique	COFRAC

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

No

(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
OIE Virtual regional workshop on honey bee diseases in Asia and the Pacific	24/08/2021	Virtual conference	Orateur	Surveillance system in European Union

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?

Not applicable (Only OIE Reference Lab. designated for disease)

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?

Not applicable (Only OIE Reference Lab. designated for disease)

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?

Not applicable (Only OIE Reference Lab. designated for disease)

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:

* L'Anses Sophia Antipolis s'attache depuis plusieurs années à développer et à valider des méthodes de diagnostic de qualité pour la détection et l'identification de *Tropilaelaps*. Ces méthodes ont été diffusées aux Etats Membres de l'OIE au travers notamment du Manuel des tests de diagnostic et des vaccins pour les animaux terrestres, rendant les Etats autonomes dans leur utilisation.

Le laboratoire demeure ainsi peu sollicité en termes de diagnostic sur cet agent au niveau international. La situation épidémiologique de ce parasite, exotique dans de nombreux Etats, explique également le faible nombre de demandes d'analyse.

* En 2021, deux activités majeures ont été conduites par le laboratoire autour de l'infestation par *Tropilaelaps* :

- La préparation d'un essai inter-laboratoires (EIL) qui sera organisé au niveau international en 2022 sur l'identification morphologique de *Tropilaelaps* (méthode OIE). L'essai prévu en 2022 sera un "ring test", et s'appuiera sur un panel d'échantillons unique circulant entre les laboratoires participants.

- La préparation d'un projet de collecte de spécimens de *Tropilaelaps clareae* et *mercedesae* en Asie. Ce projet devrait permettre d'alimenter l'échantillothèque du laboratoire et ainsi de faciliter les possibilités de diffusion de matériel de référence et l'organisation d'EIL au format plus classique, s'approchant d'avantage des conditions d'analyse de routine.