

OIE Reference Laboratory Reports Activities

Activities in 2021

This report has been submitted : 2022-01-05 16:39:23

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Small hive beetle
Address of laboratory:	Les Templiers 105 route des Chappes CS 20111 06902 Sophia Antipolis FRANCE
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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)

Yes

Diagnostic Test	Indicated in OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
None.	No.	0	0
Direct diagnostic tests			
Identification du petit coléoptère de la Ruche <i>Aethina tumida</i> par examen morphologique	Oui	9	0
Identification du petit coléoptère de la Ruche <i>Aethina tumida</i> par PCR en temps réel	Oui	4	0

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?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
Oeufs d'A. tumida	PCR d'identification d'A. tumida	Importé (acheté auprès du FERA / UK qui produit ce type de matériau)	0	Une dizaine d'oeufs	1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East

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?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
SPAIN	Appui dans le cadre d'une alerte sanitaire suite à une suspicion d'introduction dans le cadre d'une importations de reines d'abeilles.	Un appui scientifique et technique a été apporté par email au laboratoire sur la méthode d'identification par PCR. Du matériel de référence a également été envoyé au laboratoire.
COLOMBIA	Conseil sur la mise en place de méthode d'analyse, la possibilité de participer à des essais inter-laboratoires.	Par email.
BULGARIA	Conseil sur la mise en place d'un dispositif de surveillance de plusieurs maladies des abeilles (dont A. tumida).	Expertise sur une proposition de plan de surveillance relayée par courrier.
SWITZERLAND	Partage d'expérience autour de la surveillance d'A. tumida sur des colonies de bourdons.	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
Essai interlaboratoires européen sur le diagnostic d'A. tumida	1 an	Evaluer la robustesse des méthode d'identification morphologiques et moléculaires d'A. tumida	22 laboratoires nationaux de référence européens pour la santé de l'Abeille : Austria, Belgium, Bulgaria, Croatia, Czech Republic, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Netherlands, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland.	AUSTRIA BELGIUM BULGARIA CROATIA CZECH REPUBLIC ESTONIA FINLAND FRANCE GERMANY GREECE HUNGARY IRELAND ITALY LATVIA PORTUGAL ROMANIA SLOVAKIA SLOVENIA SPAIN SWEDEN SWITZERLAND THE NETHERLANDS

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:

Cette maladie est absente en France.

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:

Cette maladie est absente en France.

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

Franco, S.; Cougoule, N.; Tison, A.; Del Cont, A.; Gastaldi, C.; Consortium, I.; Duquesne, V. Reliability of Morphological and PCR Methods for the Official Diagnosis of *Aethina tumida* (Coleoptera: Nitidulidae): A European Inter-Laboratory Comparison. *Insects* 2022, 13, 33. <https://doi.org/10.3390/insects13010033>

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). "Point de situation sur le petit coléoptère des ruches en Europe". et "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) 2

Le laboratoire publie des informations relatives à la situation épidémiologique sur *A. tumida* au niveau européen : <https://sitesv2.anses.fr/en/minisite/abeilles/liste-actualites/news>

Et au niveau national :

<https://www.plateforme-esa.fr>

**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 du petit coléoptère de la ruche <i>Aethina tumida</i> par examen morphologique	COFRAC
Identification du petit coléoptère de la ruche <i>Aethina tumida</i> par PCR en temps réel	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?

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:

* 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 d'*Aethina tumida*. 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.

* En 2021, le laboratoire a échangé à deux reprises avec l'ICIPE (International Centre of Insect Physiology and Ecology du Kenya), qui est Centre collaborateur pour l'OIE en Afrique sur la Santé des abeilles, pour évaluer la possibilité de collaborations sur la santé des abeilles et notamment sur *A. tumida*. La question du financement demeure un frein à la mise en place des activités.