



World
Organisation
for Animal
Health

Organisation
mondiale
de la santé
animale

Organización
Mundial
de Sanidad
Animal

Activities of the World Organisation for Animal Health related to bee health

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**International Symposium on
Biosecurity Measures in Beekeeping
10 June 2022**



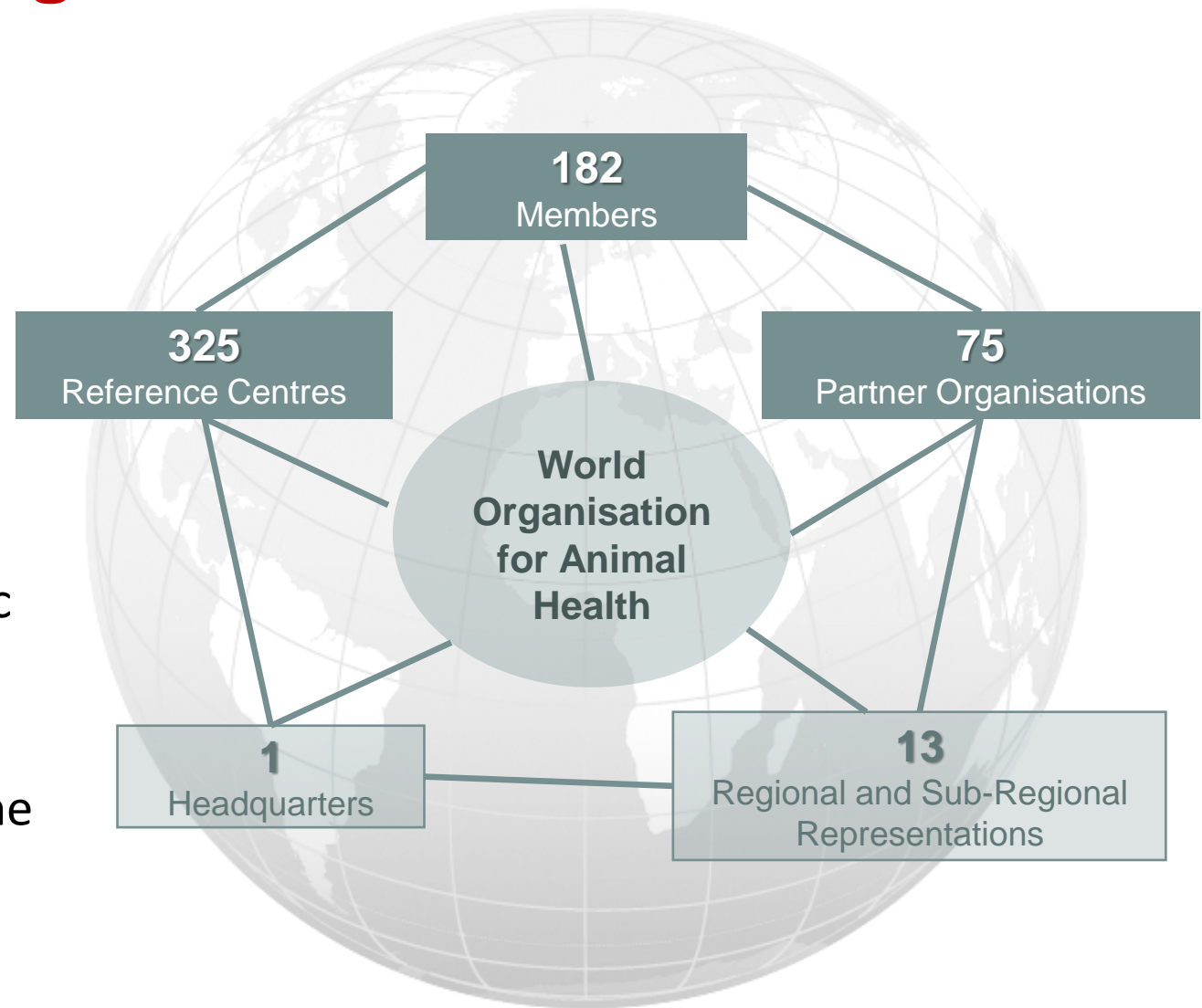
Introduction

- Overview of the World Organisation for Animal Health
- World animal health information system
- Standards (standards, guidelines and recommendations) related to bee health
- Other initiatives of the Organisation relevant for bee health

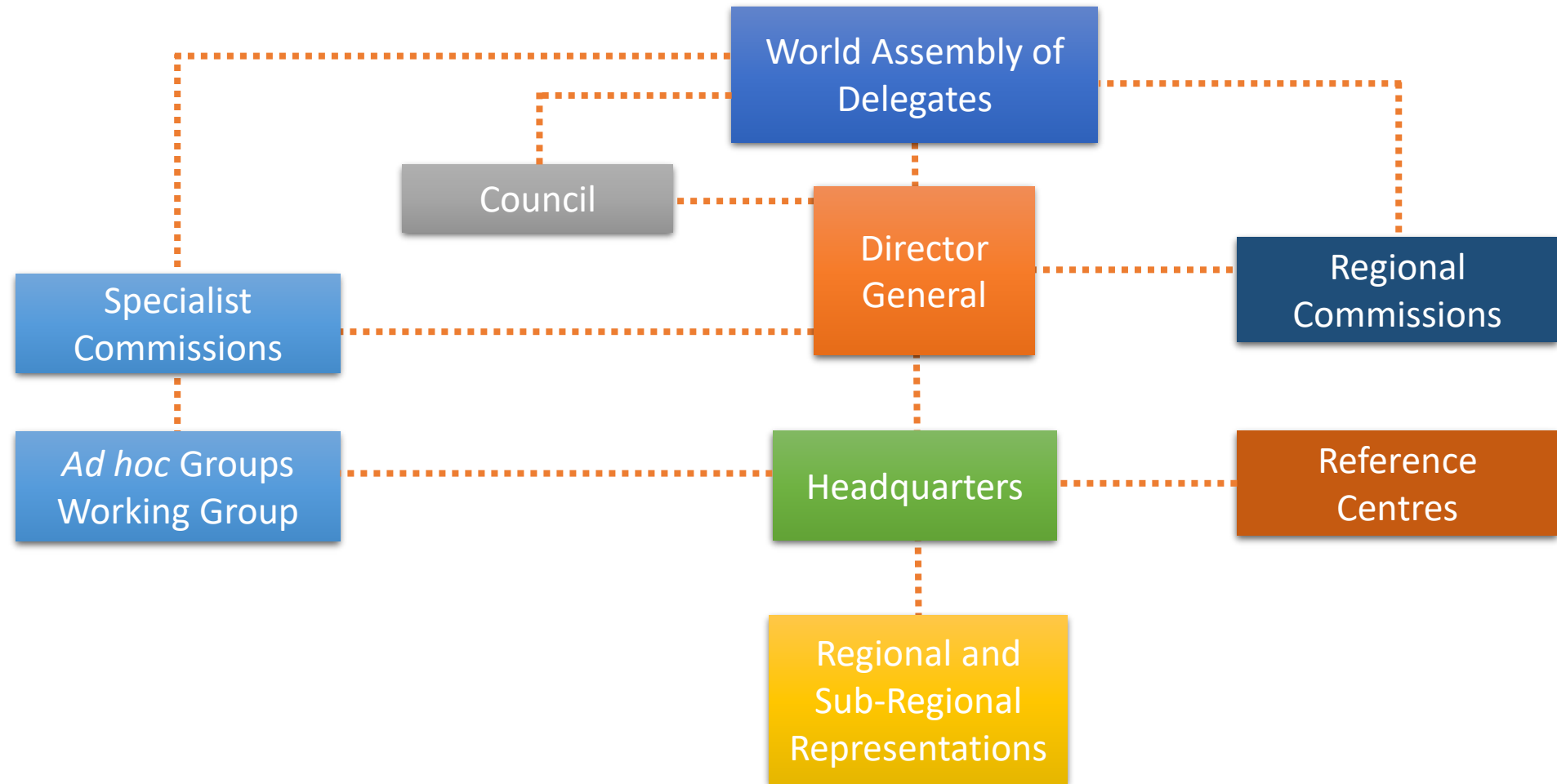


Overview of the World Organisation for Animal Health

- Inter-governmental organisation
- Created in 1924, Headquarters in Paris, France – before the United Nations
- Currently **182** Members (August 2021)
- The mandate of the Organisation is to improve animal health, veterinary public health and animal welfare worldwide
- International organisation of reference for animal health in the framework of the SPS agreement of the World Trade Organisation



Structure of the World Organisation for Animal Health

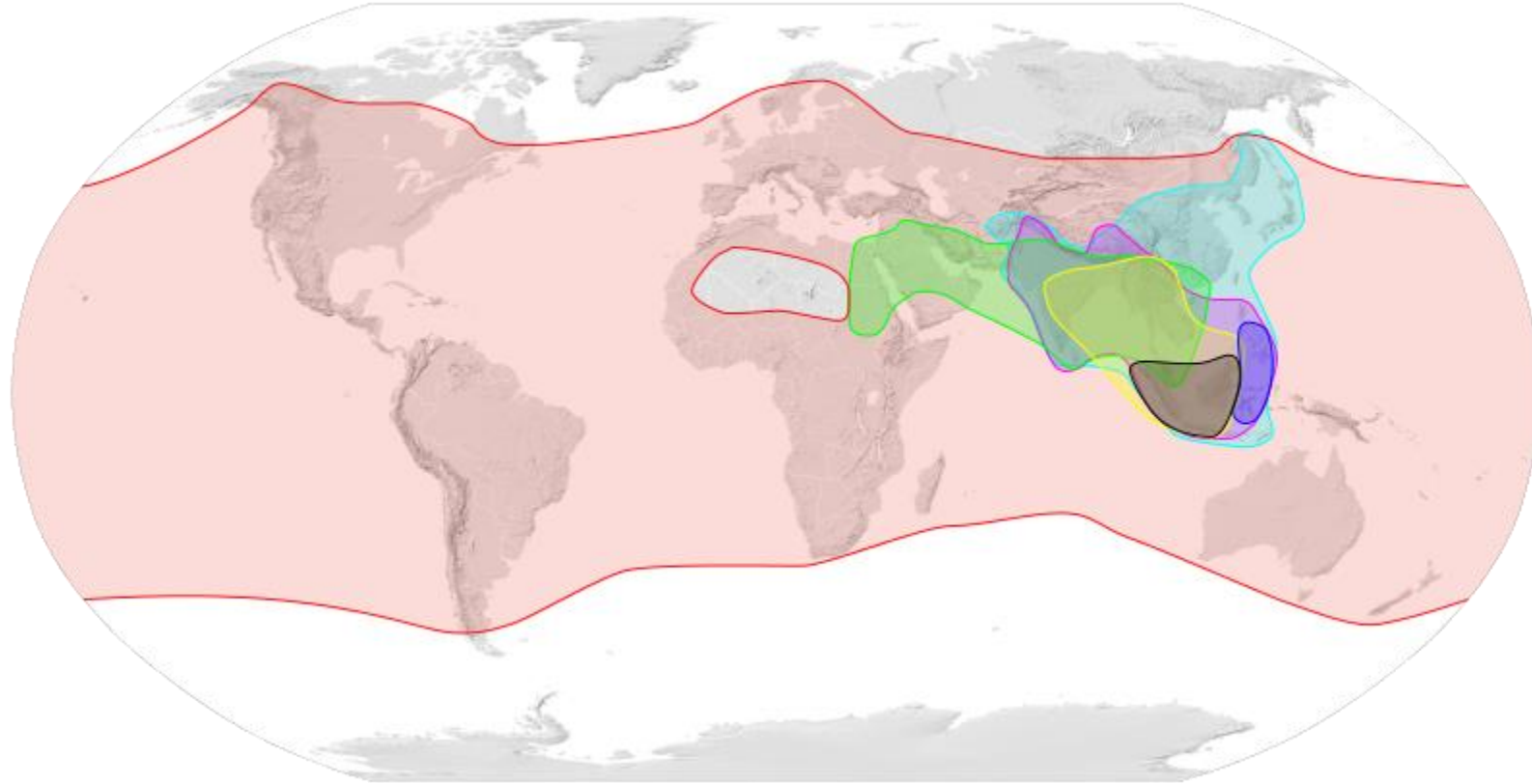


What bees are we talking about?

- WOAHA addresses honey bee which are species of the genus *Apis*.
- While about 20,000 species of bees exist, only eight species of honey bee are recognized: *Apis andreniformis* (the black dwarf honey bee); *Apis cerana* (the eastern honey bee); *Apis dorsata* (the giant honey bee); *Apis florea* (the red dwarf honey bee); *Apis koschevnikovi* (Koschevnikov's honey bee); *Apis laboriosa* (the Himalayan giant honey bee); *Apis mellifera* (the western honey bee); and *Apis nigrocincta* (the Philippine honey bee).
- For one disease (small hive beetle), WOAHA addresses also the *Bombus* and Stingless bees.



What bees are we talking about?



■ *Apis andreniformis*

■ *Apis cerana*

■ *Apis dorsata*

■ *Apis florea*

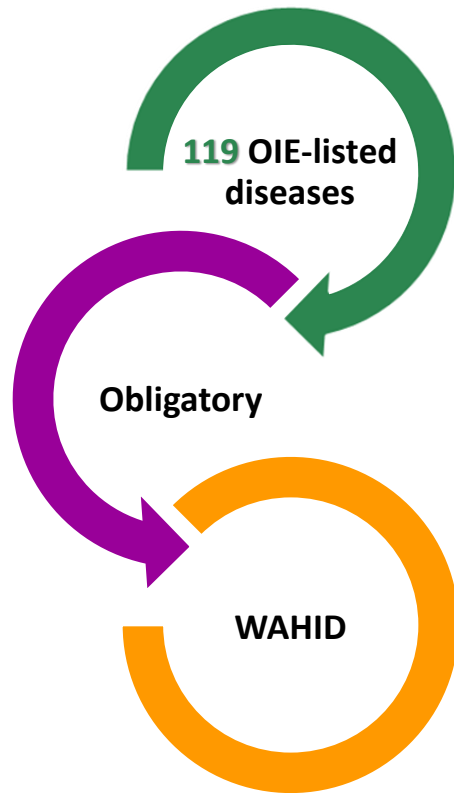
■ *Apis koschevnikovi*

■ *Apis nigrocincta*

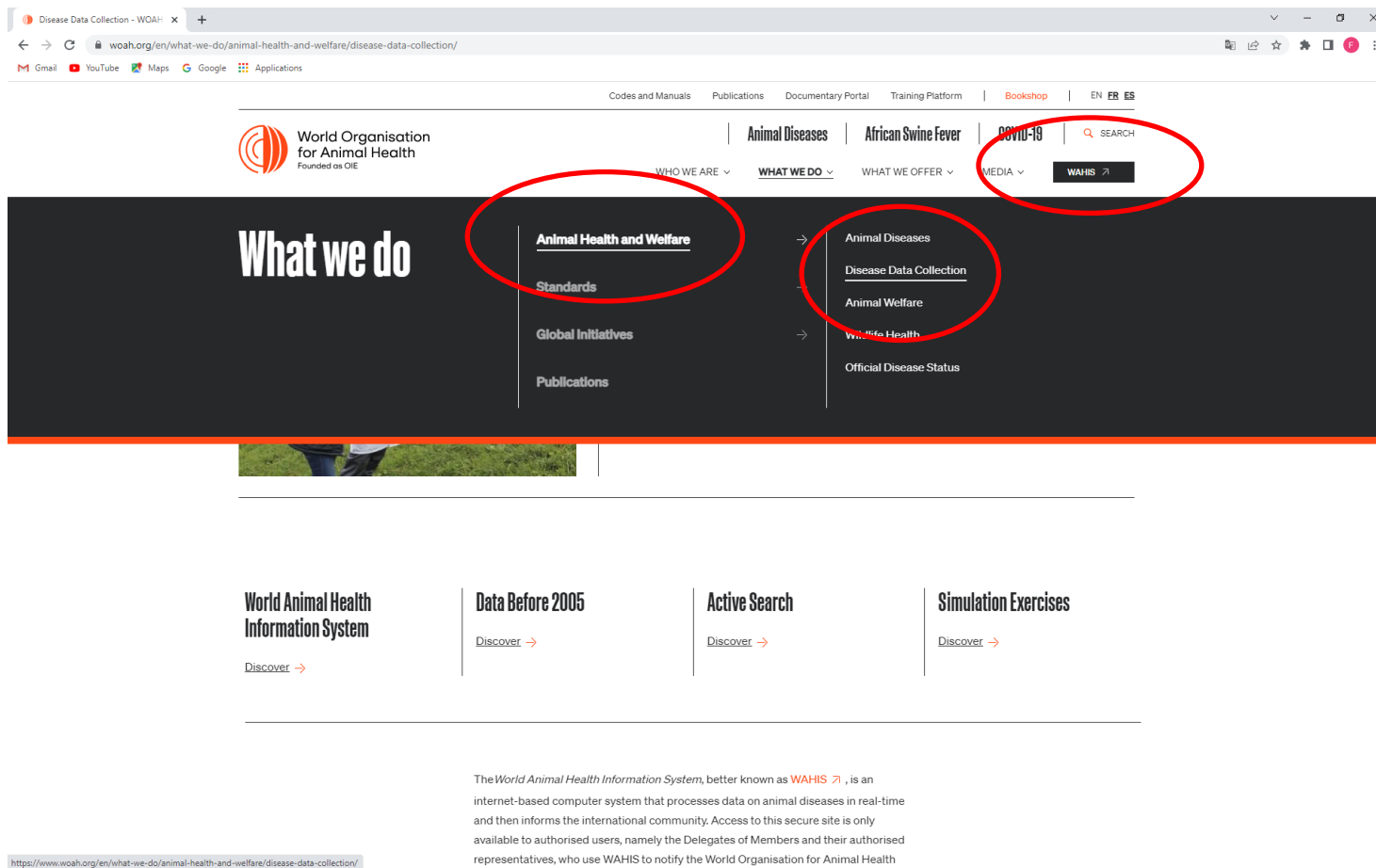
■ *Apis mellifera*

World Animal Health Information System

WAHIS



- Notification of the epidemiological situation from all the WOAHA Member Countries to the WOAHA for a limited number of diseases listed by the OIE and regularly updated as well as for emerging diseases with significant morbidity or mortality, or zoonotic potential.
- Currently, **six bee diseases** are present on this WOAHA list: Acarapisosis of honey bees, American foulbrood of honey bees, European foulbrood of honey bees, Small hive beetle infestation (*Aethina tumida*), Tropilaelaps infestation of honey bees and Varroosis of honey bees.

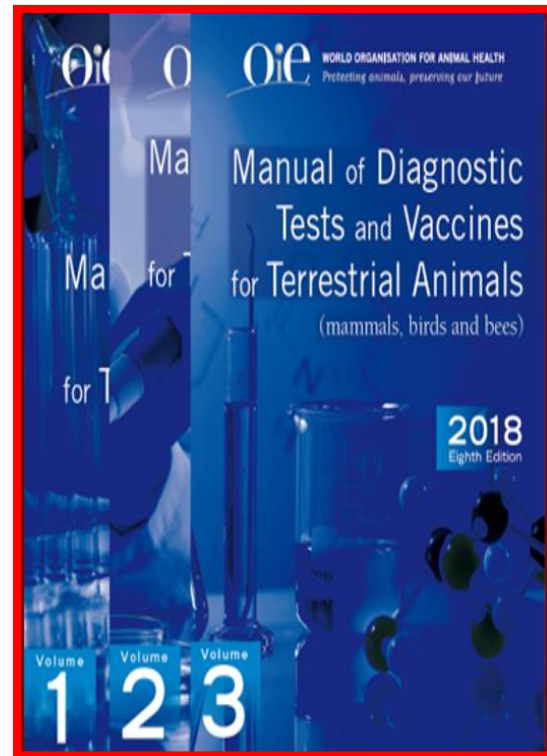
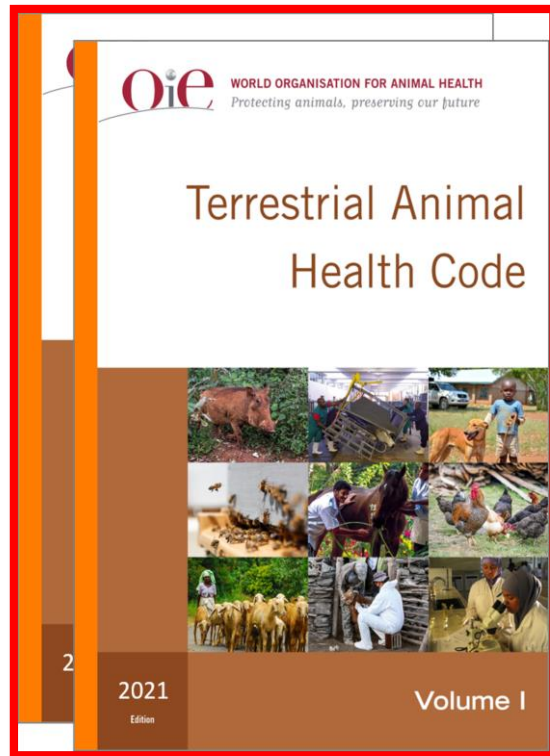


Please scan!



For accessing WAHIS!

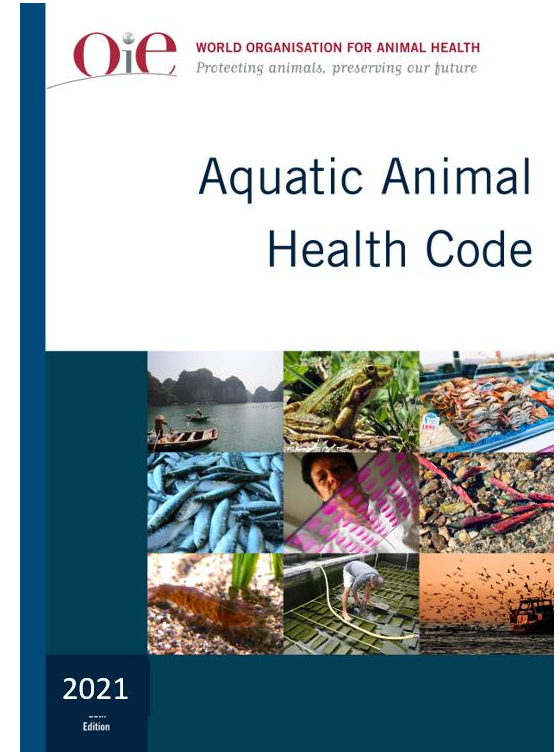
Standards



Manual of Diagnostic Tests for Aquatic Animals



Eighth edition
2021



Codes and *Manuals* available on the website

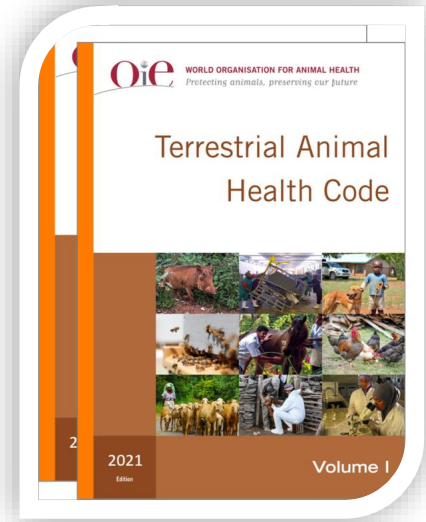


Terrestrial Animal Health Code - 2021

Aim: to assure the sanitary safety of international trade in terrestrial animals and their products, while avoiding unjustified sanitary barriers

It is also an essential tool for supporting the mandate of the WOAHA in the area of improving animal health and welfare world-wide.

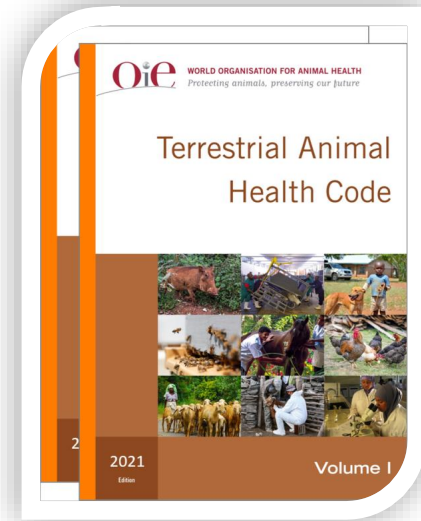
Achieved through the detailing of health measures to be used by the veterinary authorities.



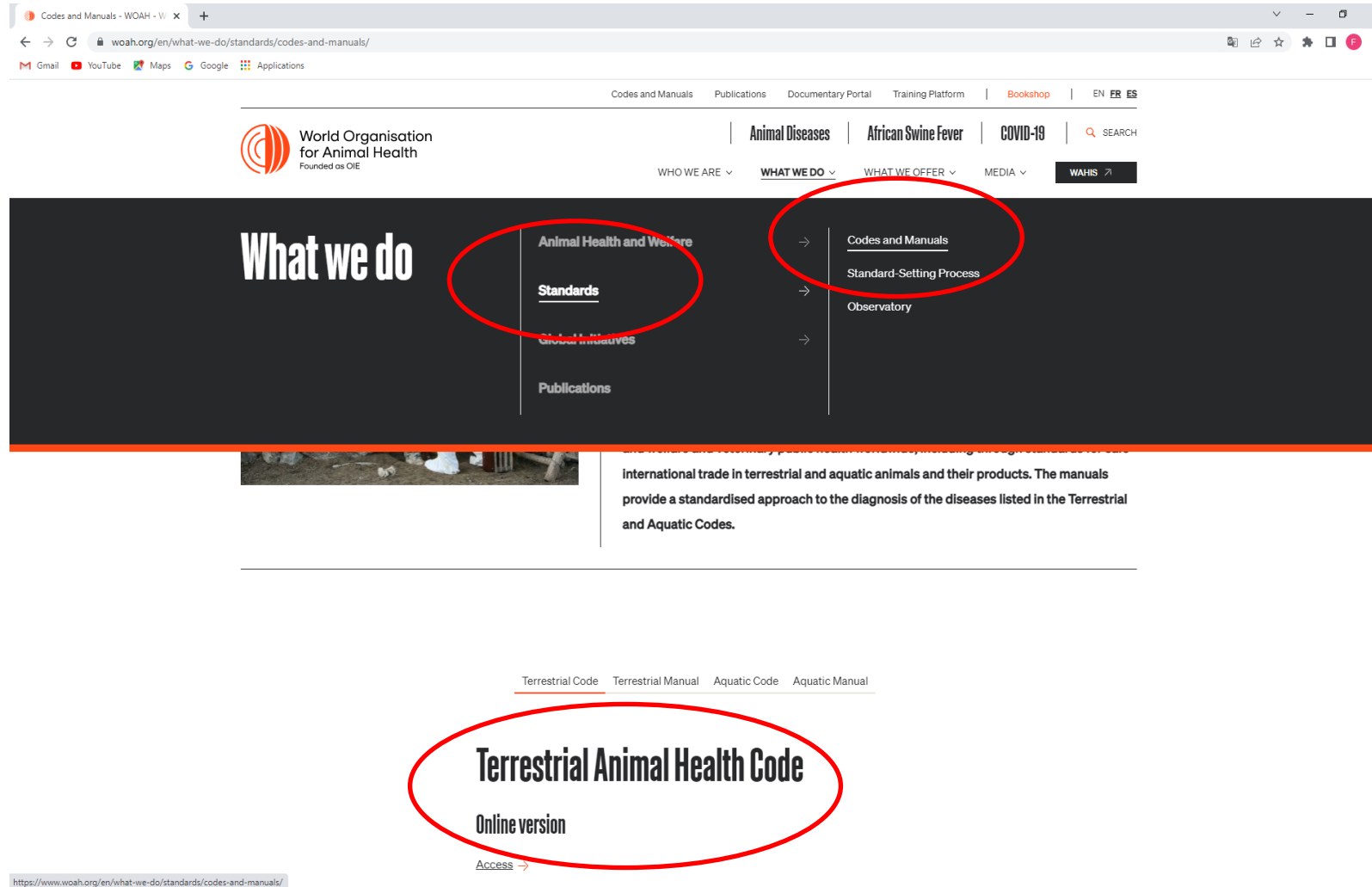
Terrestrial Animal Health Code - 2021

Chapters relevant for bees in the *Terrestrial Code*:

- Chapter 4.14., Official health control of bee diseases;
- Chapter 5.10., Model Veterinary Certificates for International Trade;
- Chapters 9.1. to 9.6. covering the six bee diseases included in the WOAHL List (Safe commodities/Determination of the disease status in a country, zone or compartment/Recommendations for importation of live bees and products of bees).



Terrestrial Animal Health Code - 2021



The screenshot shows the WOAH website's 'What we do' section. A red circle highlights the 'Standards' link under 'Animal Health and Welfare'. Another red circle highlights the 'Codes and Manuals' link under 'WHAT WE DO'. Below this, the 'Terrestrial Animal Health Code' is highlighted with a red circle, with the text 'Online version' and a link 'Access →' below it. The URL 'https://www.woah.org/en/what-we-do/standards/codes-and-manuals/' is visible at the bottom.

Codes and Manuals - WOAH - W

woah.org/en/what-we-do/standards/codes-and-manuals/

Gmail YouTube Maps Google Applications

Codes and Manuals Publications Documentary Portal Training Platform Bookshop EN FR ES

World Organisation for Animal Health Founded as OIE

Animal Diseases African Swine Fever COVID-19 SEARCH

WHO WE ARE WHAT WE DO WHAT WE OFFER MEDIA WAHIS

What we do

Animal Health and Welfare

Standards

Codes and Manuals

Standard-Setting Process

Observatory

Publications

international trade in terrestrial and aquatic animals and their products. The manuals provide a standardised approach to the diagnosis of the diseases listed in the Terrestrial and Aquatic Codes.

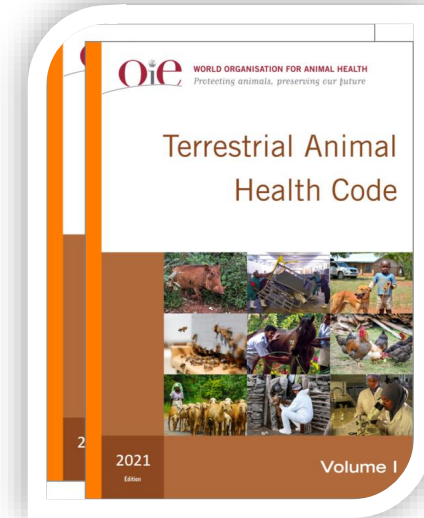
Terrestrial Code Terrestrial Manual Aquatic Code Aquatic Manual

Terrestrial Animal Health Code

Online version

Access →

<https://www.woah.org/en/what-we-do/standards/codes-and-manuals/>



Terrestrial Manual, 2018 (Publication), 2022 (Website)

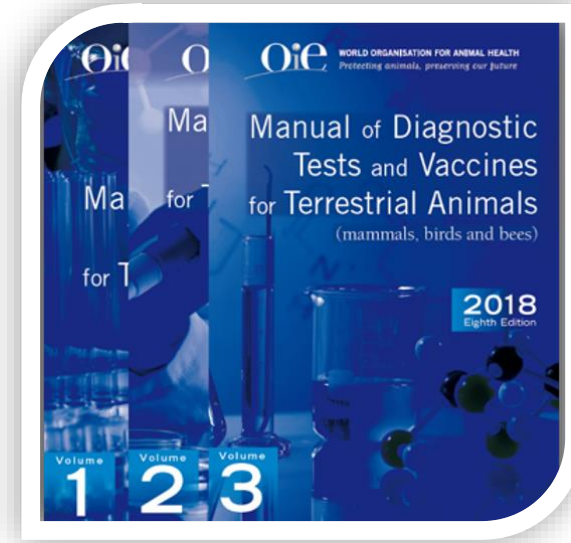
Aim:

to provide internationally agreed diagnostic laboratory methods and requirements for the production and control of vaccines and other biological products

- Is the companion volume to the *Terrestrial Animal Health Code*

Chapters relevant for the honey bees in the Terrestrial Manual:

- Introductory chapters
- Disease-specific chapter for the six honey bees diseases listed by the WOA
- + An Introductory note on bee diseases
- + One chapter on Nosemosis of honey bees

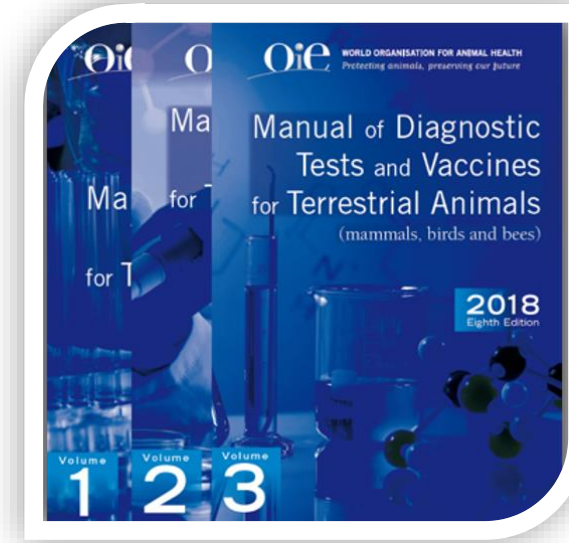


Terrestrial Manual, 2022

The screenshot shows the WOAH website with the following elements:

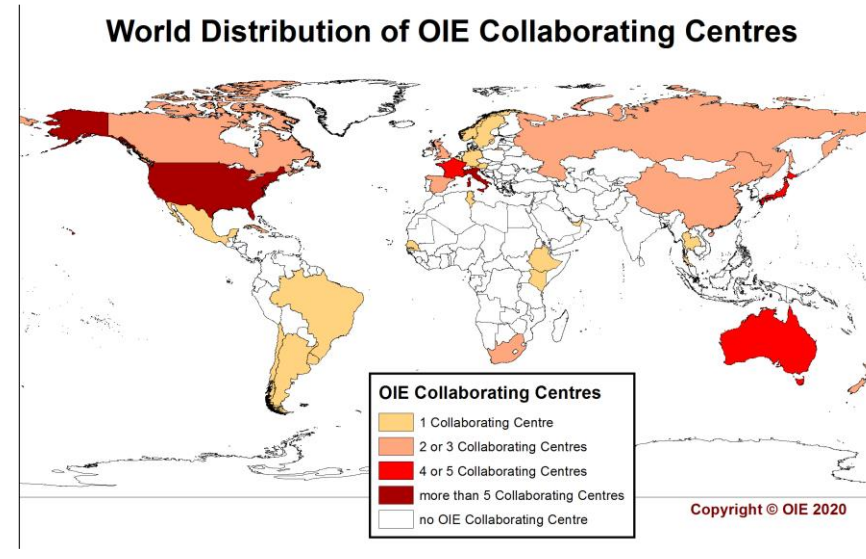
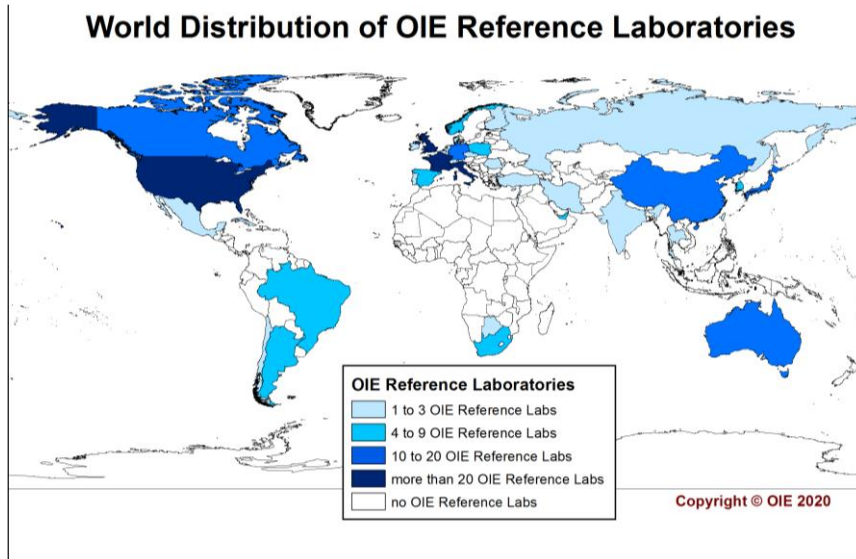
- Header:** Includes the WOAH logo, navigation links (Codes and Manuals, Publications, etc.), and a search bar.
- Main Menu:** A dark sidebar with 'What we do' and a sub-menu where 'Standards' is circled in red.
- Sub-menu:** A secondary menu where 'Codes and Manuals' is circled in red.
- Breadcrumbs:** At the bottom, a path is shown: 'Terrestrial Code' > 'Terrestrial Manual' > 'Aquatic Code' > 'Aquatic Manual', with 'Terrestrial Manual' underlined.
- Title:** 'Manual of Diagnostic Tests and Vaccines for Terrestrial Animals'.
- Link:** 'Online version' is circled in red, with an 'Access ->' link below it.

<https://www.woah.org/en/what-we-do/standards/codes-and-manuals/>



Other WOAHA tools or initiative relevant for honey bees

1. Expertise - The WOAHA Network of Reference Laboratories and Collaborating Centres



| FIGURES FROM JUNE 2021 | | | |
|---|------------------------|-----------------------|-------|
| Summary table of information on OIE Reference Laboratories and Collaborating Centres from June 2021 | | | |
| | Reference Laboratories | Collaborating Centres | Total |
| Number | 264 | 65 | 329 |
| Countries | 37 | 31 | 46 |
| Diseases/Topics | 109 | 43 | – |
| Experts | 196 | – | – |

**Dr Marie-Pierre Chauzat &
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Dr Marc O. Schäfer
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GERMANY
marc.schaefer@fli.de

WOAH Listed Bee Diseases

- Infestation of honey bees with *Varroa* spp. (Varroosis)
- Infestation with *Aethina tumida* (Small hive beetle)
- American foulbrood of honey bees

American Foulbrood of Honey Bees



COLLABORATING CENTRES

International Centre of Insect Physiology and Ecology (ICIPE)

P.O Box 30772-00100,

Nairobi, KENYA

Emails: sekesi@icipe.org / icipe@icipe.org

Istituto Zooprofilattico Sperimentale delle Regioni Lazio e Toscana

via Appia Nuova, 1411 – 00178,

Rome, ITALY

Emails: giovanni.formato@izslt.it /
segreteria@izslt.it

Bee health in Africa

Good Beekeeping Management Practices and Biosecurity Measures in the Apiculture Sector



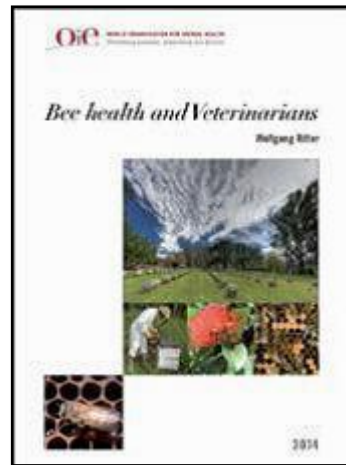
Other WOAHA tools or initiative relevant for honey bees

1. Expertise - The WOAHA Network of Reference Laboratories and Collaborating Centres
- 2. Capacity Building - Laboratory Twinning**

Concept: Sustainable enhancement of capacity and expertise by supporting a link between a WOAHA Reference Laboratory or Collaborating Centre (parent) and a national laboratory (candidate) from a developing or in-transition country

Other WOAH tools or initiative relevant for honey bees

1. Expertise - The WOAH Network of Reference Laboratories and Collaborating Centres
2. Capacity Building - Laboratory Twinning
3. **Relevant publications**



**Bee Health and Veterinarians,
Wolfgang Ritter, Ed. 2014**



**Protecting bees,
preserving our future
OIE *Bulletin*, 2-2014**

Thank you for your attention



Thank you

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