

OIE Non Tsetse Transmitted Animal Trypanosomoses Network

Minutes of the 4th annual meeting, 29 June 2018, 12 rue de Prony, 75017 Paris

The following Network members (in alphabetical order) were welcomed at the meeting: Büscher Philippe, Desquesnes Marc, Gillingwater Kirsten, Getahun Merid, Goddeeris Bruno, Gonzatti Marisa, Gustafson Amber, Hébert Laurent, Inoue Noboru, Lai De-Hua, Lun Zhao-Rong, Pascucci Ilaria, Schnauffer Achim, Thekisoé Oriel, Touratier Louis, Suganuma Keisuke, Wardhana April, Wen Yan Zi

The following members are apologized: Ahmed Jasine Ebrahim, Battur Banzragch, Bouyer Jérémy, Dargantes Alan, Davila Alberto, Diall Oumar, Goossens Julie, Gutierrez Carlos, Hagos Ashenafi, Magez Stefan, Miletto Luiz Claudio, Minoprio Paola, Musinguzi Peter, Peter Rose, Solano Philippe, Van Gool Frans, Reyna-Bello Armando, Schares Gereon, Truc Philippe, Van Reet Nick, Yurov Konstantin

OIE delegates were: Diaz F, Dominguez Morgane, Gregorio Torres

- Oumar Diall, Comité National de la Recherche Agricole du Mali, Mali
- Yan-Zi Wen, Zhongshan University School of Life Sciences, University of Guangzhou, P.R. China

The list of all NTTAT Network members can be found on the webpage

P. Büscher recalled the goal of the NTTAT Network being to establish a global strategy for the control of NTTATs with the following specific objectives:

- To create awareness on NTTATs as high impact neglected diseases
- To develop tools that enhance countries' capacity for surveillance of the NTTATs in view of increasing disease reporting
- To foster collaborative research on identified topics
- To respond to needs for scientific evidence as expressed by endemic countries and/or organisations engaged in NTTAT control
- To fill gaps in knowledge on disease epidemiology, pathogenesis, drug efficacy, vaccines, modes of transmission, reservoir hosts and vector control

Laurent Hébert presented the progress on the webpage (<http://www.oie.int/nttat/index.html>).

The full webpage is public. Therefore, data that are unpublished or other confidential information should not be sent in for posting on the webpage.

For the following research areas, the general description is still lacking: vectors, *in vitro* and *in vivo* models, epidemiology and socio-economic impact.

To avoid creating another library and to avoid copyright problems, only a list of references of relevant publications can be added to the description of the different research areas.

The sections "Members area", "Other events", "National websites" and "Publications" will be deleted.

NTTAT distribution maps will not appear under "Links" but separately in place of "Members area".

NTTAT Network members are invited to send publications with data on NTTAT distribution to François Diaz of OIE to allow updating the OIE distribution maps (f.diaz@oie.int).

Laurent will investigate the possibility to include a link to the OIE Standard Sera and the future virtual OIE Biobank.

Progress reports were expected from the responsible of each research priority area. For the areas "socio-economic impact" (R. Mattioli), "treatment" (R. Peter) and "zoonotic aspects" (P. Truc), no reports were received.

The following progress report presentations were given

- Gillingwater: Progress Report 2018: *In vivo* and *in vitro* models
- Lai, Wen, Su, Lun & Wardhana: Epidemiology of *Trypanosoma evansi* and surra, 2017-2018
- Pascucci: NTTAT case definition and case management
- Büscher: Update on diagnosis of NTTAT
- Bonsaen, Nénot, Chalermwong, Fossaert, Onju & Desquesnes: Evaluation of the impact of Insects in feeder-cattle

The following complementary presentations were given

- Ahmed, Hagos, Geldhof, Merga, Tola, Van Brantegem, Vercauteren, Van Soom, Duchateau, Goddeeris, Govaere: Pathology in dourine diseased horses
- Wardhana: Current status of *Trypanosoma evansi* in livestock in Indonesia
- Desquesnes: Guidelines for a user-friendly photographic description of the external morphology of hematophagous flies; application to the identification of *Tabanus rubidus* (Diptera: Tabanidae)
- Touratier: An overview of some remarks and activities of the OIE NTTAT Network during the period June 2017/June 2018

Oriel Thekisoie will take over the task of Kirsten Gillingwater to coordinate research area "*in vivo* and *in vitro* models".

No replacement is found for Raffaele Mattioli. It is proposed to ask Harriet Auty from SRUC, Inverness, UK or Alexandra Shaw from the University of Edinburgh, whether they are interested.

Gregorio Torres explained that the country delegates prefer to keep the 3 Terrestrial Code Chapters on dourine, surra and African trypanosomosis, which may have consequences on how the chapters on dourine and surra in the Terrestrial Manual should be adapted (Chapter 2.5.3 on Dourine, Chapter 2.1.21 on *Trypanosoma evansi* infection (surra). The review of these chapters is coordinated by Noboru Inoue who proposes the following work schedule:

OIE Manuals

(1) *Trypanozoon* in equids (dourine and equine surra)

Chief expert: Dr. Philippe Büscher (pbuscher@itg.be)

@Need to discuss inclusion of *T. brucei* in the manual.

(2) *Trypanosoma evansi* (non-equine surra)

Chief expert: Dr. Noboru Inoue (ircpmi@obihiro.ac.jp)

Contributors for the two manuals:

Louis Touratier (louistier@aol.com), Marc Desquesnes (marc.desquesnes@cirad.fr), Konstantin Yurov (konstyurov@yandex.ru), Laurent Hébert (Laurent.HEBERT@anses.fr), Maria Isabel Gonzatti (mgonzat@usb.ve), Ilaria Pascucci (i.pascucci@izs.it), Keisuke Suganuma (k.suganuma@obihiro.ac.jp), Oriel Thekisoie (thekisoie@gmail.com)

Schedule	Works
July – Nov 2018	Draft the manuals by Philippe (<i>Trypanozoon</i> in equids) and Noboru (<i>Trypanosoma evansi</i>).
Dec. 2018- Feb 2019	Share the draft manuals with contributors, and collect comments.
Mar - Apr 2019	Inclusion of the comments to the manuals and preparation of the final versions of the manuals.
In July 2019	Submit the manuals to OIE

Morgane Dominguez announced the engagement of OIE in a public-private-partnership with the International Horse Sports Confederation (IHSC) to address issues impeding international movements of competition horses. This PPP has expressed an interest in considering the possible financial support of scientific studies addressing diagnosis of dourine and surra in horses. The PPP invites the NTTAT Network to provide a joint documented overview of dourine and surra in horses, emphasising the latest scientific evidence and main issues regarding their aetiology, case definition, route of transmission and differential diagnosis. Complementary to this overview, it would be appreciated if the NTTAT Network could identify and prioritize the studies that would be required to either solve the issues identified or develop a practical approach to get around these issues in the contact of international movements of competition horses. It would be appreciated if these studies could be presented in the format of short pre-project proposals (approx. 1 page) including budget estimates and timelines, by 1 August 2018. OIE warmly encourages collaborative approach within the network for joint pre-project proposals.

During the meeting, the following members expressed their interest in developing pre-project proposals: Oriel Thekisoie,, Noboru Inoue, Merid Getahun, April Wardhana, Marc Desquesnes, Maris Gonzatti, Laurent Hébert, Ilaria Pascucci, Philippe Büscher. All members of the Network are invited to send their ideas to Philippe Büscher asap in order to coordinate the further development of the pre-project proposals.

Philippe Büscher will start writing up of the requested documented overview and will distribute it for approval by the other NTTAT members.

Date and place

The 3rd International Conference on NTTAT of the OIE NTTAT Network will take place on 3 and 4 December 2018 at the North-West University, Potchefstroom, South Africa.

Organising committee:

Oriel Thekisoie North-West University, South Africa

Announcement

The announcement of the meeting will follow within the coming weeks.

There is a preference to organise the next annual meeting at the end of May 2019. Philippe Büscher will send a proposal to the network members.

The minutes of this meeting will be sent to François Diaz for further distribution within OIE and will be posted on the NTTAT Network webpage

Agenda of the meeting

Presentations and other documents given at the meeting

4th Annual Meeting

29 June 2018, 9 am - 17 pm

OIE HQ, Salon Ramon, 12 rue de Prony, 75017 Paris, France

Metro: Parc Monceau, Tel: +33 144 15 18 88

Agenda

1. Welcome Philippe Büscher
 - 1.1. Recalling the goal and objectives of the NTTAT Network

2. Webpage Laurent Hébert/Philippe Truc/Expert OIE

3. Progress report presentations submitted by the different members of the NTTAT Network and presented by the responsible for the different domains
 - 3.1. Diagnosis Philippe Büscher
 - 3.2. *In vivo* and *in vitro* models Kirsten Gillingwater
 - 3.3. Treatment *Rosemary Peter (will not be present)*
 - 3.4. Vectors Marc Desquesnes
 - 3.5. Case definition and case management Ilaria Pascucci
 - 3.6. Epidemiology Zhao-Rong Lun
 - 3.7. Socio-economic impact N.N.

4. Additional presentations

Wardhana	Current status of <i>Trypanosoma evansi</i> in livestock in Indonesia
Ahmed et al.	Pathology in dourine diseased horses

5. Replacement for Kirsten Gillingwater and Raffaele Mattioli

6. Revision of the chapters Surra and Dourine in the OIE Manual (Noboru Inoue, François Diaz, Sara Linnane)

7. Planning 2018-2019
 - 7.1. 3rd International Conference on NTTAT, 2-3 December 2018, South Africa
 - 7.2. Next annual meeting of the OIE NTTAT Network

8. Annual report to OIE Philippe Büscher/Louis Touratier

**4th Annual Meeting of the OIE Non Tsetse Transmitted
Animal Trypanosomoses Network**
(Paris, OIE-HQ, 29 June 2018)

An overview of some remarks and activities of the OIE NTTAT Network
during the period June 2017/June 2018

by

Louis Touratier
Consultant Member

Documents quoted and tagged () in the following list can be obtained on request .*

1. Minutes of the 3rd meeting of the OIE NTTAT Network, Paris ,OIE HQ , 26 June 2017 (*)

2. Disease reporting to WAHID

Since several years some confusion may exist about animal trypanosomoses due to the definitions of the relevant diseases: “Surra” is classified as "multiple species disease" in the chapter "Multiple species diseases, infections and infestations" and “Trypanosomoses (tsetse transmitted)” being restricted to the section “Cattle diseases and infections” and re-qualified as “African Animal Trypanosomoses – including tsetse transmitted but excluding Surra and Dourine- only for bovidae” as adopted at the OIE GS in May 2018. As a result, some countries outside the tsetse belt did not report on Surra but on Trypanosomoses.

3. Reports by the Scientific Commission of Animal Diseases (SC AD) and the Biological Standard Commission (BSC) in February 2018 (quotations of some extracts)

3.1. SC AD

Considering that infections with *T. evansi* (non-equine surra) and infections with *Trypanosoma* in equids were not in agreement with the suggested scope and approach of the *Terrestrial Code* it was agreed to conduct a revision of the Trypanosomes-related chapters following the recommendations of the subject-matter experts. For this task, the Commission noted that a new *ad hoc* Group would be convened in March 2018 on Animal African Trypanosomoses of which its relevant comments would be deferred to the SC meeting for discussion at its September 2018 meeting.

The new ad hoc Group held its first meeting on 6-8 March 2018. However, its conclusions could not be obtained before being validated by the SC in September.

3.2. BSC

Three chapters of the OIE Manual for Terrestrial Diseases were submitted to some members of our NTTAT Network for updating:

Chapter 2.4.17 Trypanosomoses tsetse transmitted

Chapter 2.5.13 Dourine

Chapter 2.1.21 *T. evansi* infections including Surra

Proposals from the experts were transmitted to the BSC and Chapter 2.4.17 was submitted for approval by the OIE General Session in May 2018 where it 2.14.17 was adopted.

The revisions of the two other chapters are postponed and will be submitted for adoption in May 2020.

4. International meetings

4.1. Trypanosomatids parasites: from the field to the lab (Institut Pasteur Paris, 5-6 December 2017)

4.2. FAO *ad hoc* meeting on the Progressive Control Pathway for Animal African Trypanosomosis (FAO, Rome, 11-12 December 2017)

The SC considered that this method (published by O. Diall et al., 2017) aims at providing affected countries and stakeholders with a national approach to plan and implement AAT control strategies following a stepwise approach. *Mutatis mutandis* we raised the problem on NTTAT to O. Diall who would be very interested in launching a world action which would be progressive and time consuming. He immediately prepared an introductory report for the 2nd International Conference on NTTAT in Antwerp in December 2017. Moreover he is preparing another text for the 3rd International Conference on NTTAT foreseen in December 2018.

4.3. 2nd International Conference on NTTAT (ITM, Antwerp, 18-19 December 2017)

The Conference welcomed 42 participants from Africa, Asia, Europe and South America with communications and posters on *T. equiperdum* or dourine, on surra or *T. evansi*, *T. vivax* and other non-tsetse transmitted trypanosomes. The abstract book and public presentations are posted on the OIE NTTAT Network webpage: <http://www.oie.int/nttat/events2.html>

4.4. Séminaire Régional des Points Focaux Nationaux de l'OIE: Résistance aux trypanocides à usage vétérinaire en Afrique (Abidjan, Côte d'Ivoire, 16-18 Janvier 2018)

O. Diall participated with a presentation (in French).

4.5. AU-PATTEC: Workshop on the promotion of regional integration in the fight against tsetse and trypanosomosis in the Economic Community of West African States (Abuja, Nigeria, 7-8 June 2018)

Participation of O. Diall: PATTEC is only interested in areas where AAT persist without tsetse.

5. Perspectives.

The 3rd International Conference on NTTAT will take place in the beginning of December 2018 in South Africa.