

OIE Non Tsetse Transmitted Animal Trypanosomoses Network

Minutes of the third meeting, 26 June 2017, 12 rue de Prony, 75017 Paris

The following Network members (in alphabetical order) were welcomed at the meeting: Büscher Philippe, Gillingwater Kirsten, Gustafson Amber, Hébert Laurent, Lai De-Hua, Lun Zhao-Rong, Pascucci Ilaria, Peter Rose, Thekisoë Oriël, Touratier Louis, Suganuma Keisuke, Truc Philippe, Van Reet Nick

The following members are apologized: Battur Banzragch, Bouyer Jérémy, Desquesnes Marc, Gonzatti Marisa, Goossens Julie, Hagos Ashenafi, Inoue Noburu, Mattioli Raffaele, Miletto Luiz Claudio, Minoprio Paola, Solano Philippe, Schnauffer Achim, Van Gool Frans, Reyna-Bello Armando, Rowan Tim, Yurov Konstantin

OIE delegates were: Diaz F (project officer) and Ely Prince Adicolle (webmaster)

- Amber Gustafson, microbiologist at the Serology Section of USDA APHIS. She replaces Charles Lewis
- De-Hua Lai, post-doc molecular parasitologist at the Center for Parasitic Organisms, School of Life Sciences, Sun Yat-Sen University, Guangzhou, P.R. China (Z.R. Lun)
- Nick Van Reet, post-doc molecular parasitologist at the Institute of Tropical Medicine Antwerp and team member of the OIE Reference Laboratory for Surra (P. Büscher)

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

Progress reports were expected from the responsible of each research priority area. For the areas "vectors" (M. Desquesnes) and "socio-economic impact" (R. Mattioli), no reports were received. For the other areas, reports were presented during the meeting: "diagnosis" (P. Büscher), "in vivo and in vitro models" (K. Gillingwater), "treatment" (R. Peter), "epidemiology" (Z.R. Lun), "cased definition and case management" (I. Pascucci).

The following progress report presentations were given

- Gillingwater: Progress Report 2017: *In vivo* and *in vitro* models
- Peter: Tryps Programme Overview with particular reference to the development of new AAT drugs
- Lun & Lai: Epidemiology of *Trypanosoma evansi* and other NTTAT from 2007-2017
- Pascucci: Case definition and case management
- Büscher: Update on diagnosis of NTTAT

The following complementary presentations were given

- Nick Van Reet, Jolien Van Santbergen, Pati Pyana, Hadush Birhanu & Philippe Büscher
Diversity of aquaglyceroporin genes (*TbAQP*) in Trypanozoon and their relation to melarsoprol and pentamidine cross-resistance (MPXR)
- Sonia Tehseen, M. Fiaz Qamar, M. Imran Shahzad
A five year survey of trypanosomosis from Cholistan Desert, Pakistan
- Y. Ahmed, A. Hagos, B. Merga, T. Alemu, A. Van Soom, L. Duchateau, B.M. Goddeeris, J. Govaere
Infectiousness of equine semen in prepatent phase of dourine
- Weldegebrial G.Aregawi, Philippe Büscher, Duguma Abdissa Reta, Getahun Agga
Systematic literature review on *T. evansi* and surra (2005/2016)
- Keisuke Suganuma, Narantsatsral Sandagdorj, Davaasuren Batdorj, Daiki Mizushima, Nthatisi Innocentia Molefe, Battur Banzragch, Otgonsuren Davaajav, Battsetseg Badgar, Noboru Inoue
Dourine and *T. equiperdum* in Mongolia. Update from 2016: epidemiological study and in vitro culture of newly isolated *T. equiperdum*
- Oriel Thekiso, M.A. Mlangeni, M.O. Taioe, Suganuma K., Inoue N.
Recent occurrence of dourine in South Africa
- Tatu Utpal & M. Rajasekhar
Surveillance of Animal Trypanosomiasis in Race Course Horses in India using Immunological and Molecular Methods
- Christine M. Kamidi, Norah P. Saarman, Kirstin Dion, Paul O. Mireji, Collins Ouma, Grace Murilla, Serap Aksoy, Achim Schnauffer, Adalgisa Caccone
Multiple evolutionary origins of *Trypanosoma evansi* in Kenya
- Louis Touratier
A summary with some comments of activities and problems in relationship with the OIE NTTAT Network during the period JUNE 2016 / JUNE 2017

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

The basic structure of the webpage is ready. L. Hébert will soon receive training by Ely Prince Adicolle to populate the different sections on the webpage. He will prepare the list of Network members and will collect short domain specific text from the NTTAT Network members. Members that wish to post upcoming events related to NTTAT are invited to contact L. Hébert.

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

Louis Touratier proposes the OIE NTTAT Network to write an opinion paper similar to the recent one in Trends in Parasitology (Diall et al. Developing a Progressive Control Pathway for African Animal Trypanosomosis, <http://dx.doi.org/10.1016/j.pt.2017.02.005>) but on NTTAT.

The participants welcome this initiative but for the moment, no one proposes to take the lead in writing this opinion paper. All participants are invited to identify a coordinating author.

The Code Commission decided to review the code chapters at its meeting in September 2017.

In her letter to the secretary of the OIE NTTAT Network sent on 26 Nov 2016, the OIE DG presented the demand of the International Movement of Horses Committee (IMHC) to receive, *within two days*, a priority research programme regarding diagnosis of infections with Trypanozoon spp. in equids. P. Büscher promptly submitted a proposal, with copy to the other OIE Reference Centres Surra and Dourine. One of these experts presented an alternative proposal. OIE invited the experts to submit a consolidated proposal in February or May 2017. Due to other priorities, P. Büscher didn't react on this invitation to submit an alternative proposal, neither did the other expert(s).

Date and place

The 2nd International Conference on NTTAT of the OIE NTTAT Network will take place on 18 and 19 December 2017 at the Institute of Tropical Medicine in Antwerp, Belgium.

Sponsors:

Confirmed: Institute of Tropical Medicine Antwerp, Coris BioConcept, MV Diagnostics

Pending applications: Research Foundation Flanders, OIE, GALVmed

Organising committee:

Laurent Hébert	ANSES, France
Nick Van Reet	ITM, Belgium
Ann Van Soom	Ugent, Belgium
Jan Paeshuyse	KULeuven, Belgium
Louis Maes	UA, Belgium
Philippe Büscher	ITM, Belgium

Scientific committee

Noboru Inoue	Obihiro University of Agriculture and Veterinary, Medicine, Japan
Ilaria Pascucci	Istituto Zooprofilattico Sperimentale, Italy
Stefan Magez	Ugent, Belgium
Jan Paeshuyse	KULeuven, Belgium
Philippe Büscher	ITM, Belgium

Registration fee

50 €, except students and invited speakers

Announcement

Via contact list of the NTTAT Network

Via each member's institutional or personal webpage

Via webpage of OIE NTTAT Network if ready in time

Invited speakers (confirmed)

Marisa Gonzatti	Venezuela
Fikru Regassa Gari	Ethiopia
Keisuke Sukanuma	Japan
Achim Schnauffer	United Kingdom
Nick Van Reet	Belgium

Maybe just before the 3rd International Conference on NTTAT that might be held in South Africa in autumn 2018.

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

3rd Annual Meeting

26 June 2017, 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
 - 3.4. Vectors *Marc Desquesnes (will not be present)*
 - 3.5. Case definition and case management Ilaria Pascucci
 - 3.6. Epidemiology Zhao-Rong Lun
 - 3.7. Socio-economic impact *Raffaele Mattioli (will not be present)*
4. Additional presentations

Tehseen et al.	A five year survey of trypanosomosis from Cholistan Desert, Pakistan
Utpal et al.	A collaborative study between Indian Institute of Science, Bangalore and Royal Western India Turf Club
Suganuma et al.	Dourine and <i>T. equiperdum</i> in Mongolia. Update from 2016: epidemiological study and <i>in vitro</i> culture of newly isolated <i>T. equiperdum</i>
Ahmed et al.	Infectiousness of equine semen in prepatent phase of dourine
Aregawi, et al.	Systematic literature review on <i>T. evansi</i> and surra (2005/2016)
Van Reet et al.	Diversity of aquaglyceroporin genes (TbAQP) in <i>Trypanozoon</i> and their relation to melarsoprol and pentamidine cross-resistance
Thekisoie et al.	Recent occurrence of dourine in South Africa
Touratier	A summary with some comments of activities and problems in relationship with the OIE NTTAT Network during the period JUNE 2016 / JUNE 2017
5. Planning 2017-2018
 - 5.1. 2nd International Conference on NTTAT, 18-19 December 2017, Antwerp, Belgium
 - 5.2. Next annual meeting of the OIE NTTAT Network
 - 5.3. 34th General Conference of the International Scientific Council for Trypanosomiasis Research and Control (ISCTRC), 11-15 September 2017, Livingstone, Zambia
6. Annual report to OIE Philippe Büscher/Louis Touratier