

Invitation

# JOINT SYMPOSIUM, November 5, 2010, at the Institute of Tropical Medicine (ITM), Antwerp, Belgium

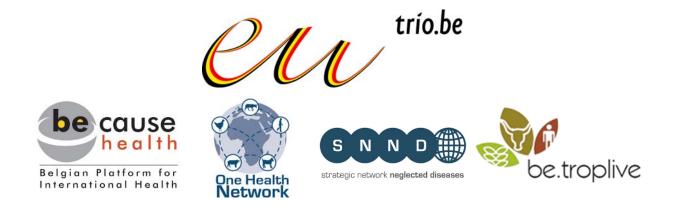
## Intersectoral collaboration between the medical and veterinary professions in low-resource societies

### "Where medics and vets join forces"

Dear Colleagues,

The invitation letter provides the background to the forthcoming symposium to be held in Antwerp, Belgium on November 5, 2010.

This symposium is jointly organised by the Belgian Platform on Tropical Animal Health and Production (be-troplive), the Belgian Platform for International Health (be-cause Health), ITM's Strategic Network on Zoonoses, and the Strategic Network on Neglected Diseases.



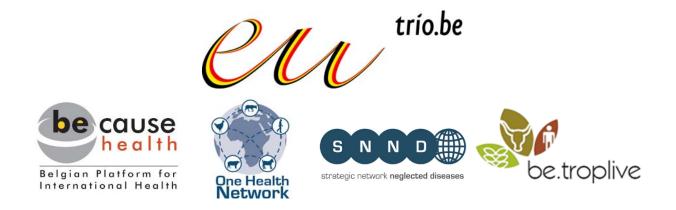
### The main aim of this event is mainly sensitizing professionals on the added value of sharing knowledge and to join forces

#### 1. Background and rationale

According to Taylor et al. (2001), who catalogued 1,415 known human pathogens, 62% are of animal origin. Some of these pathogens require the presence of infected animals or animal products to be transmitted to humans whereas others, referred to as emerging pathogens, incidentally cross the species barrier and adapt to their new human host following numerous contacts. Emerging pathogens include HIV/AIDS, SARS and a number of hemorrhagic fevers. Once established in the new host, they circulate among the population as any other disease. Zoonoses are infections that are shared by humans and animals and, more particularly, zooanthroponotic diseases (often referred to as zoonoses) are transmitted from animals to humans. Zoonotic diseases might take epidemic (e.g.: rabies, Rift valley fever) or endemic forms (e.g.: brucellosis, echinococcosis). Whereas emerging and epidemic zoonoses usually attract much interest, endemic zoonotic diseases rarely give rise to collaboration between the medical and veterinary professions, especially in developing countries.

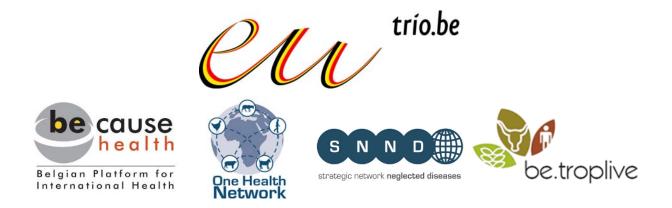
Collaboration between the medical and veterinary sectors forms the backbone of the "One Health – One Medicine" concept. This concept does not only refer to zoonotic pathogens but, more broadly, to all medical issues shared by humans and animals. Animals have long been used as models in anatomy, physiology, immunology, pharmacology and epidemiology. The emergence of drug resistance in microorganisms living in contact with humans and animals and the risk of resistance transfer from non-pathogenic to pathogenic organisms are other important "One Health" issues requiring intersectoral collaboration. Finally, medical and veterinary surveillance, diagnosis, vaccination programmes and service delivery are similarly constrained by cold chains, lack of laboratory facilities and access to the field. Sharing resources is likely to benefit both sectors.

In this respect, early notification of epidemics of zoonotic diseases or accurate estimations of the impact of endemic zoonoses on public health and animal production to support appropriate resource allocation require inputs from both the medical and veterinary sectors. Medical and veterinary professionals should understand the complete cycle of zoonotic pathogens and integrate data collected from animals and humans. Participatory epidemiology, which has been successfully applied in veterinary studies in developing countries, could prove useful to study the incidence and the impact of zoonoses on human health.



Similarly, depending on the epidemiology and the impact of the zoonotic infection in animals and humans, effective control may require inputs from the medical or veterinary sectors or a coordinated joint effort. For instance, zoonoses causing severe diseases in humans (rabies, Rift Valley fever, hydatidosis, anthrax), require prevention in animals using vaccination, chemotherapy or sanitary measures. Other zoonotic pathogens are commensal and widely distributed in animals (e.g. Salmonella, Campylobacter, E. coli...) and seem very difficult to control in animals. Many endemic zoonoses need to be addressed both in humans and animals, depending on the cost efficiency of the control methods.

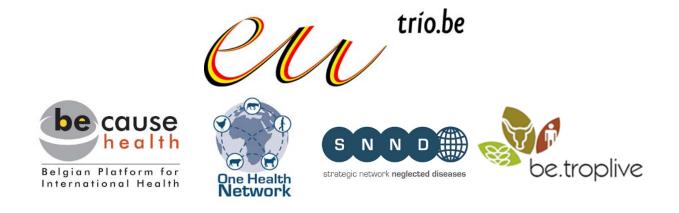
Notwithstanding the logic of the "One Health – One Medicine" concept and the obvious need of intersectoral collaboration in the control of zoonoses, effective collaboration is rare. Supported by various networks involved in human and animal health in low-resource countries, the purpose of this symposium is to bring together medical and veterinary professionals involved in low-resource societies and to demonstrate through their experience the importance of intersectoral collaboration in various fields. Examples where animals act as reservoir of human diseases in developing countries will be presented. Their impact on human and animal health and the means to reconcile disease burden assessments in humans and animals will be discussed. Finally, field intersectoral collaboration experiences and instances where animals contribute to human health will be presented and discussed.



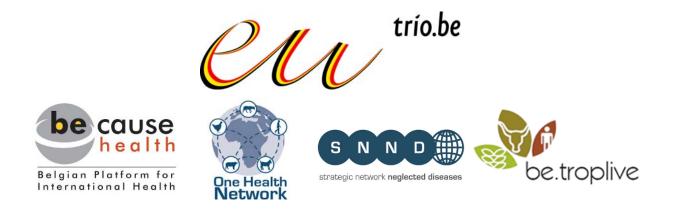
#### 2. Programme

#### **Provisional Programme**

| time  | title   | Presenter (s)  |  |
|---|---|--|--|
| 9h00  | registration and welcome coffee   | FORUM  |  |
| 9h30  | Welcome address (official)  | Director Institute of Tropical Medicine<br>or representative |  |
| 9h45  | Brief introduction to the day : Joep van Mierlo (Vétérinaires Sans Frontières, Belgium - VSF-B) & Tanguy Marcotty (ITM) |  |  |
| 10h00   | Introduction to the One Health concept : an approach to global health challenges  | Pat Conrad (University of California<br>UC Davis)            |  |
| Theme 1: Role of animals as reservoir for human diseases: - Moderator Joep van Mierlo (VSF-B) |   |  |  |
| 10h30   | Parasitic zoonoses : the example of echinococcosis and hydatidosis  | Philip Craig (University of Salford ,<br>UK)                 |  |
| 10h50   | Bovine tuberculosis and brucellosis at the<br>wildlife/livestock/human interface  | Jacques Godfroid, (Norwegian<br>Veterinary School)           |  |
| 11h10   | Questions and discussion on Theme 1   |  |  |
| 11h30   | Coffee break  | FORUM  |  |
| Theme 2: Burden assessment - Moderator Tanguy Marcotty (ITM)                                  |   |  |  |
| 12h00   | Re-evaluating burden of disease estimates for neglected tropical disease  | Filip Meheus (ITM)   |  |
| 12h20   | The burden of zoonoses on animal and public health  | Jakob Zinsstag (Swiss Tropical and Public Health Institute)  |  |
| 12h40   | Questions and discussion on Theme 2   |  |  |
|   |   |  |  |
| 13h00   | Lunch Break – offered by the organisers   | FORUM  |  |



| Theme 3: Meeting in the field - Moderator : Dirk Van der Roost (ITM) |  |   |  |
|--|--|---|--|
| 14h00  | The fight against zoonotic diseases, a challenge for human and animal health services: experience from | Abdou Razac Boukary (ONG<br>Kharkara) & Mallam Abdou Badé<br>(Hôpital Général Niamey)   |  |
|  | Niger  |   |  |
| 14h20  | Experience from Morocco on Echinococcosis  | Hamid Sahibi (Institut Agronomique et<br>Vétérinaire Hassan II) & Hind Filali<br>(Institut National de l'Administration<br>de la Santé) |  |
| 14h40  | Participatory epidemiology in animal and human health  | Saskia Hendrickx (International<br>Livestock Research Institute) & Cyrille<br>Pissang (VSF-B)   |  |
| 15h00  | Questions and discussion on Theme 3  |   |  |
| The road ahead - Moderator Marleen Boelaert (ITM)                    |  |   |  |
| 15h20  | The role of animals in public health crisis: source of diseases or shield?                             | Michel Van Herp & Peter Maes<br>(Médecins Sans Frontières Belgium)  |  |
| 15h40  | Buzzing with coffee  | FORUM   |  |
| 16h10  | General discussion and conclusions   | All the speakers  |  |
| 17h10  | Wrap up  | The Chairs of the organising<br>platforms & networks  |  |
| 17h20  | Reception  | FORUM   |  |



#### 3. Logistics

#### 3.1. Venue

The symposium will be held at the Institute of Tropical Medicine (ITM) in Antwerp, Belgium, and will take place in Campus Rochus, Aula PG Janssens, which is located in Sint Rochusstraat 43, B-2000 Antwerp, Belgium

If you enter through the main entrance, you take the first hall on your right and then you take the stairs to the 1<sup>st</sup> floor. There you will find Room PG Janssens.

#### 3.2. Language

During the symposium, there will be simultaneous translation English-French.

#### 3.3. Availability and Outcomes

The symposium will be available on the internet through video conferencing. The protected PowerPoint Presentations will also be made available on the internet. A concept note presenting the results of the workshop and the abstracts will be published. A view-point will be published in an International Journal.

#### 3.4. Registration

A registration form will be available on the website. We ask you to register before 22 October 2010. The registration and participation in the symposium is free of charge.

#### 3.5. How to reach the ITM?

From Brussels National Airport

#### SN Brussels Airlines Express bus to Antwerp Central Station

\*Brussels-Antwerp: every hour On weekdays and Saturdays:

first departure: 5:00 a.m. last departure: 12 midnight

On Sundays: first departure: 7:00 a.m. last departure: 12 midnight

Travel time: 45 minutes











\*Antwerp-Brussels: every hour On weekdays and Saturdays: first departure: 4:00 a.m. last departure: 11:00 p.m.

On Sundays:

first departure: 6:00 a.m.

last departure: 11.00 p.m.

Travel time: 45 minutes

Price: ± 10,00 €

From Antwerp Airport (Deurne) Bus n° 16 - stop Central Station

From Antwerp Central Station Subway n° 2 or 15 - stop Groenplaats

From Berchem Station

Tram n° 8 (direction: Lambermontplaats)- stop Volksstraat

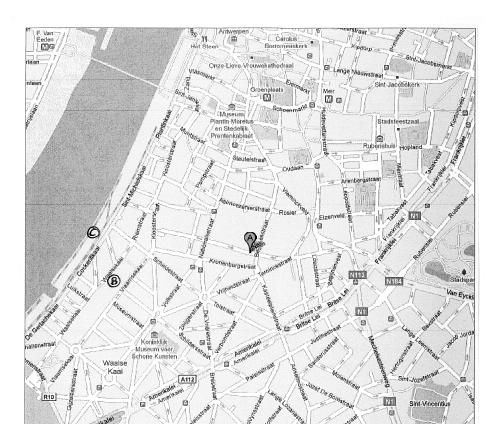
<u>Please check the following site for more maps and info if you want to come by car</u> http://www.itg.be/itg/GeneralSite/generalpage.asp?wpid=109&miid=25&RND=225311637

Car-parking:

Free of charge if parked on the square located between the Vlaamse Kaai and the Waalse Kaai, or on the banks of the Scheldt.



#### 4. Map



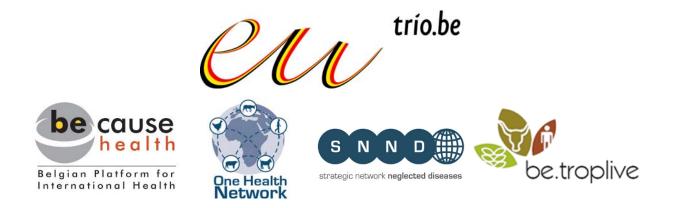
#### Legend

A. Institute of Tropical Medicine (ITM), Campus Rochus, Sint Rochusstraat 43, 2000 Antwerp (location Aula PG Janssens)

- B. Square between Vlaamse kaai and Waalse Kaai (parking free of charge)
- C. Car parking on banks of the river The Scheldt (parking free of charge)

#### Additional maps: please consult

http://www.itg.be/itg/GeneralSite/generalpage.asp?wpid=109&miid=25&RND=225311637



#### 5. More questions and remarks?

Please consult the colloquium- website at: http://www.itg.be/internet/colloq2010/index.htm

Or contact the Joint-symposium secretariat:

Via e-mail: info@be-troplive.be

By phone: +32 3 2476392 (Eric Thys) or +32 3 2476271 (Leen Claes)

The be-troplive website: www.be-troplive.be