



Zoonoses and emergence of new infectious diseases: biology meets anthropology

ORGANIZERS

Philippe Sansonetti (*Collège de France, Chaire de Microbiologie et Maladies Infectieuses, Paris*)

B. Brett Finlay (*PWIAS, University of British Columbia, Vancouver*)

Frederic Keck (*CNRS, Laboratoire d'anthropologie sociale, Paris*)

10 & 11 June 2013 - Symposium in English

The goal of this workshop is to identify key factors in the transmission of zoonoses from animals to humans at the molecular, social and ecological levels. We hope that the confrontation of life sciences and human sciences will help to build a common language that will allow to design new modes of investigation on zoonotic risks.

Scientific committee: Ilaria Capua, Philippe Descola, B. Brett Finlay, Antoine Gessain, Frédéric Keck, Marion Koopmans, Anne-Marie Moulin, Malik Peiris, Philippe Sansonetti.

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Amphithéâtre Halbwachs
11, place Marcelin-Berthelot
75005 Paris
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10 June 2013

08h45 Introduction

Janis Sarra (*Director, PWIAS*), B. Brett Finlay and Philippe Sansonetti

09h00 Key Note lecture: Time and space.
History of the concept of species barrier
Anne-Marie Moulin (*CNRS, Paris*)

FIRST SESSION: SPECIES BARRIER

Origin and evolution of zoonotic viruses. Modes of transmission at the interspecies and intraspecies levels. Definition of animal reservoir, vectors and mixing vessels.
Chair: Philippe Descola (*Collège de France, Paris*)

09h40 Malaria parasite transfer among human and wild primates
Loretta Cormier (*University of Alabama, Birmingham*)

10h10 Emergence of Novel Retroviruses in Humans in Central Africa: Importance of Interspecies Transmission
Antoine Gessain (*Institut Pasteur, Paris*)

10h40 Thijs Kuiken (*Erasmus Medical Centre, Rotterdam*) Barriers to and factors favoring emergence

11h10 break

11h30 Multidisciplinary collaboration as an approach to finding new strategies for Japanese encephalitis management in Nepal
Craig Stephens (*University of Calgary*)

12h00 Emerging infectious diseases: does nature strike back?
Malik Peiris (*University of Hong Kong*)

12h30 Lunch

2ND SESSION: SOCIAL & ECOLOGICAL TRANSFORMATIONS

Modeling and describing dynamics underlying the emergence of zoonotic viruses: urbanization, industrial breeding, deforestation, land reclaim, climate change... Cultural framing of human behavior in relation to zoonotic risks : proximity and distancing.
Chair: Philippe Sansonetti (*Collège de France, Paris*)

14h30 People, great apes, and disease in west-central Africa: an ethno-historical reading
Tamara Giles-Vernick (*Institut Pasteur, Paris*)

15h00 Foodborne viruses and transformations of food practices
Marion Koopmans (*RIVM, Netherlands*)

15h30 Understanding all steps of Nipah virus transmission
Steven Luby (*Stanford University*)

16h00 Break

16h20 Ecological and demographic aspects of primate viral zoonoses
Tony Goldberg (*University of Wisconsin*)

16h50 Tracking and dealing with Flu virus diversity
Ilaria Capua (*IZS, Venezia*)

17h20 Origin and evolution of Influenza virus at the human-animal interface
Danuta Skowtonski (*British Columbia CDC, Vancouver*)

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09h00 Key Note lecture
Biological complexity and sociological simplicity: the struggle to make sense of the social in disease ecology
Warwick Anderson (*University of Melbourne*)

THIRD SESSION : PUBLIC POLICIES

Efficacy of techniques of surveillance and control applied to zoonoses : culling, vaccination, syndromic surveillance... Acceptability of these measures for humans living in contact with animals.
Chair: B. Brett Finlay

09h40 The spectacle of global health. Critical perspectives on simian viruses research in Cameroon
Guillaume Lachenal (*University Paris VII*)

10h10 Water access, quality and microbial risk: equity and governance perspectives
Leila Harris (*University British Columbia, Vancouver*)

10h40 How law contributes to build species barriers
Sonia Desmoulin (*CNRS, Paris*) and Marie-Angèle Hermitte (*EHESS, Paris*)

11h10 Break

11h30 Bats in epidemiology, between hopes and fears
François Moutou (*ANSES, Paris*)

12h00 A political economy of viral chatter: contact, contract and bio-insecurity
Steven Hinchliffe (*University of Exeter*)

12h30 Conclusions, perspectives
Frederic Keck (*CNRS, Paris*)

13h00 End of the Symposium