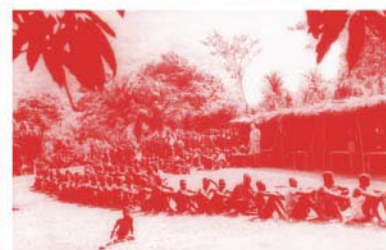
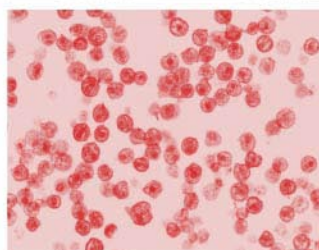
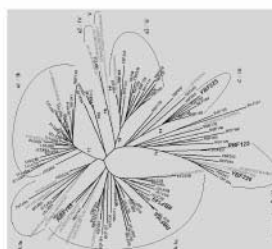
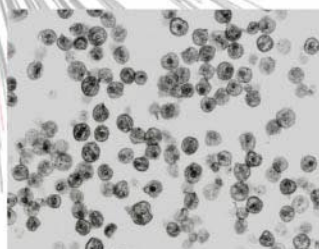


# Simian viruses and emerging diseases in humans

Virology, epidemiology and  
medical history



## International Symposium Paris, 9-10 June 2010

# PROGRAM

### Partenaires

**UFR Sciences du Vivant**

Département Histoire et Philosophie  
des Sciences

Laboratoire SPHERE UMR CNRS 7219



**UFR de Médecine**

**Hôpital Saint-Louis**

ASSISTANCE  
PUBLIQUE HÔPITAUX  
DE PARIS

**Entrance on invitations only**

### Contact

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June 9th, 8.30 – 17.00, Musée des moulages, Hôpital Saint-Louis

8.30 Registration

8.45 **Opening ceremony**

video interventions by Françoise Barré-Sinoussi, *Prix Nobel de Médecine 2008*; Benoît Schlemmer, Dean of the Faculty of Medicine; Patrick Vicart, Dean of the Faculty of Life Sciences; Phillipe Sudreau, Director of the CHU Saint Louis; Jean François Delfraissy, director of the National Agency for AIDS Research (ANRS)

## Part I. VIRUSES, HOSTS, TIMESCALES: THE EVIDENCE

9.00 **Keynote lecture**

Robin Weiss (University College London): *Cross-species infection and virulence*

9.30 – 13.00

### Panel 1

#### From SIVs to HIVs : virology and epidemiology

**Chairs** : Lutz Gürtler & Simon Wain-Hobson

David Robertson (Faculty of Life Sciences, Univ. of Manchester): *HIV-1 group M: diversity and recombination*

Catherine Brennan (Abbott Laboratories): *The other HIV-1 groups: N, O and P*

Ahidjo Ayoubia (Institut de Recherche pour le Développement, UMR145 IRD/UMI): *HIV/SIV in central Africa*

10.45 – 11.15 Coffee Break

Preston Marx (Tulane National Primate Research Center): *Is a new HIV-2 emerging?" Genetic clustering of pathogenic and non-pathogenic HIV-2 subtypes E & F with SIV from sooty mangabeys in Sierra Leone.*

Michael Worobey (University of Arizona) *Dating the origins and emergence of SIV and HIV-1*

Cristian Apetrei (Center for Vaccine Research, University of Pittsburgh): *From natural hosts to other species. What can we learn ?*

Allan Hance (Inserm U 941): *Host factors: pandemic and non-pandemic HIV's*

13.00 – 14.00 Lunch

14.00 – 17.00

### Panel 2

#### Models of viral emergence

**Chairs** : Michaela Müller-Trutwin & Ali Saib

Antoine Gessain (Institut Pasteur): *Emergence of Novel Retroviruses in Central Africa (HTLV-3 and Simian Foamy Viruses) in Humans : Importance of Interspecies Transmission*

Iris Andernach (Institute of Immunology, Laboratoire National de Santé/CRP Santé, Luxembourg) *Hepatitis B virus (HBV) in West Africa and the transatlantic slave trade*

Richard Njouom (Centre Pasteur of Cameroon): *Epidemic histories of HCV in Cameroon*

15.30 – 16.00 Coffee Break

Oliver Pybus (University of Oxford): *The history of epidemic and endemic HCV*

Peter Simmonds (University of Edinburgh): *HCV : Evidence for its origin in sub-Saharan Africa*

June 10th, 9.00 – 17.00, Musée des moulages, Hôpital Saint-Louis

## Part II. MEDICAL HISTORY AND INTERPRETATIVE MODELS

### 9.00 **Keynote lecture**

Catherine Coquery Vidrovitch (Université Paris Diderot)

*Equatorial Africa, 1870-1960. Demographic crisis, ecological change, colonial rule and decolonisation*

9.30 – 13.00

### **Panel 3**

#### **Tropical Africa and medical technologies : the historical context**

**Chairs :** Martyn Sama & François Vachon

Tamara Giles Vernick (Institut Pasteur): *Apes and humans in the Sangha basin, 1890-1920*

William Schneider (Indiana University, Professeur invité à l'Université Paris Diderot):

*The history of blood transfusion in Sub-Saharan Africa*

10.30 – 11.00 Coffee Break

Guy Mbensa (National Program of Blood in Kinshasa): *Blood transfusions in Kinshasa: history and perspectives*

Anne Marie Moulin (CNRS - SPHERE): *Blood, therapeutics and infection transmission in Egypt*

Guillaume Lachenal (Univ. Paris Diderot - SPHERE): *Injections, medical accidents and colonial medicine in Cameroon*

12.30 – 13.30 Lunch

13.30 – 15.30

### **Panel 4**

#### **Theories, models and hypothesis of HIV origin and emergence**

**Chairs :** Fred Eboko & Patrice Debré

Arnaud Fontanet (Institut Pasteur): *HCV in Egypt: a model of iatrogenic epidemic or an exception?*

Phillipe Lemey (Rega Institute, K.U. Leuven): *Early spread of HIV-1 M in the DRC*

Ernest Drucker (Albert Einstein College of Medicine and Columbia University):

*Serial Passage of SIVs in Africa : the Role of Medical Injections and Blood Transfusions*

Jacques Pépin (University of Sherbrooke, Canada): *History of Injections, HCV and HIV spread*

15.30 – 16.00 Coffee Break

16.00 – 16.50

### **Final Roundtable**

**Chairs :** Robin Weiss & Preston Marx

**Speakers:** Cristian Apetrei, Ahidjo Ayouba, Patrice Debré, Jean-Pierre Dozon, Ernest Drucker, Arnaud Fontanet,

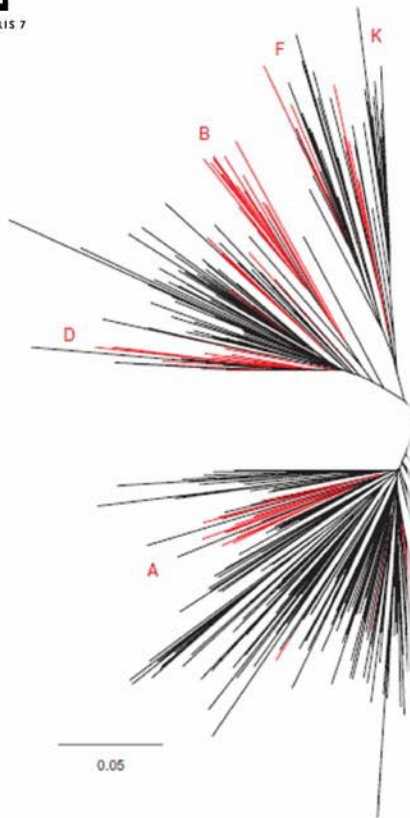
Jacques Pépin, Martine Peeters, Jacques Leibowitch, William Schneider, François Vachon, Simon Wain-Hobson

Fred Eboko

16.50 – 17.00 **Closing remarks**

Patrice Debré (Ambassadeur chargé de la lutte contre le VIH-sida et les maladies transmissibles)





In recent years, research on the origin and evolution of Human Immunodeficiency Viruses (HIV) have made considerable progress. The isolation in Central and West Africa of new strains of Simian Immunodeficiency viruses (SIV), as well as atypical HIVs, have demonstrated that HIVs crossed over to human populations on several independent occasions during the first part of the XXth century. However understanding the modalities of the inter-species transfer and adaptation of HIV among humans remains a challenge. Virological, epidemiological and historical expertise will be needed to solve this puzzle.

In 2001 a conference was held at the Royal Society in London on the origin of the Human Immunodeficiency Viruses (HIV). The meeting was prompted by the publication of Edward Hooper's book *The River* – in which he associated the origins of HIV with the early development of polio vaccines in Africa. While HIV origins are not related to polio vaccines, there is increasing evidence that HIV and other blood-borne pathogens crossed over from simian species and expanded in human populations in close association with mass injection campaigns and the rise of blood transfusions in Sub Saharan Africa.

This symposium takes an interdisciplinary perspective on these questions. It will bring together scholars who have worked on the questions of emergence of new human viruses from simian virus progenitors, and the role of iatrogenesis in these crossovers. Scholars from Europe, Africa and the U.S.A., from various disciplinary backgrounds (virology, epidemiology, history, anthropology), will meet to discuss their recent work on these issues and take stock of progress in the last decade.

## Access information

The closest metro stations are Goncourt (Line 11) and Colonel Fabien (Ligne 2). The station République (Ligne 3, 5, 8, 9, 11) is also within a 10 mn walk.

The **musée** des moulages (■) is located in the old part of the Hôpital Saint Louis, on the right after entering the gate at Rue Bichat/Avenue Richerand. The other gates are Rue de la Grange aux Belles and Avenue Vellefaux. For further informations and maps: <http://www.chu-stlouis.fr/acces.htm>

