4th ONE-HEALTH COURSE

(Preliminary program)

4-20 April 2016
<table>
<thead>
<tr>
<th>Monday 4 April 2016</th>
<th>WEEK 1</th>
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</table>
| 8h30 – 9h30       | **WELCOME TO THE COURSE: PRESENTATION OF PROFESSORS AND STUDENTS**  
Myriam ERMONVAL, Marc SAVEY & Noël TORDO |
| 9h30 – 11h00      | Photo to be taken at the reception desk to establish an ID access card |
| 11h00 - 12h30     | Disease ecology: evolutionary origin and transmission of infectious diseases  
Serge MORAND  
(CNRS-CIRAD, CIC Mérieux du Laos, Vientiane, Laos) |
| 14h00- 15h30      | Social anthropology of zoonoses  
Frederic KECK  
(CNRS, Collège de France, Paris, France) |
| 16h00- 17h30      | **ROUND TABLE: « One Health »**  
Serge MORAND, Frederic KECK, Jakob ZINSSTAG, Norbert GUALDE |
| 17h30- 19h00      | Get together |
| Tuesday 5 April 2016 |
| 9h00 - 10h30      | One health: The added value of closer cooperation of human and animal health  
Jakob ZINSSTAG  
(Institut Tropical et de Santé Publique Suisse, Basel, Switzerland) |
| 11h00 - 12h30     | Epidemics, demo-resilience and sustainable development  
Norbert GUALDE  
(Université Bordeaux, France) |
| 14h00 - 15h30     | Increasing the knowledge of the human and animal virome at homeostasis or disease state  
Marc ELOIT  
(Institut Pasteur Paris, France) |
| 16h00 - 18h00     | **PRESENTATION OF PRACTICALS**  
Tutors of practicals |
| Wednesday 6 April 2016 |
| 9h00 - 10h30      | Interspecies transmission from monkeys and apes to Humans: emergence of new retroviruses in Central Africa  
Antoine GESSAIN  
(Institut Pasteur, Paris, France) |
| 11h00 - 12h30     | Simian lentiviruses and the origins of AIDS  
Ahidjo AYOUBA  
(IRD, Montpellier, France) |
| 14h00 - 15h30     | Bat, rodents and viruses  
Felix DREXLER  
(Inst. Virology, Univ. Bonn, Germany) |
| Thursday 7 April 2016 |
| 9h00 - 10h30      | Tick-host-pathogen interactions: use of vaccine to control vector-borne diseases  
José DE LA FUENTE  
(UCML, Ciudad Real, Spain) |
| 11h00 - 12h30     | Two more species of Chlamydia: does it make a difference?  
Karine LAROUCAU  
(ANSES, Maisons-Alfort, France) |
| 14h00 - 15h30     | Mycobacteria in animals and humans  
Christian GORTAZAR  
(UCML, Ciudad Real, Spain) |
| 16h00 - 17h30     | Antibiotic resistance  
Jean-Yves MADEC  
(ANSES, Lyon, France) |
| Friday 8 April 2016: |
| 9h00 – 12h00      | **INTRODUCTION TO PRACTICAL WORK**  
Philippe LE MERCIER.  
(Swiss-Prot, Geneva, Switzerland) |
| 13h30 – 15h30     | Phylogenetic an phylogeographic analysis  
Guillaume CASTEL.  
(INRA, Montpellier, France) |
| 16h00 – 18h00     | Virus-host interactome mapping using yeast two-hybrid approach: the orbiviruses and paramyxoviruses as examples.  
Grégory CAIGNARD  
(Anses, Maisons-Alfort, France) |

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Supervisors at Anses, Maisons-Alfort, France:
Sara MOUTAILLER
Damien VITOUR
Tutors of the groups: Sophie LEPDER, Virginie DOCEUL, Cécile BECK

Supervisors at Institut Pasteur, Paris, France
Marc ELOIT
Myriam ERMONVAL
Tutors of the groups: Philippe PEROT, Liza AL SHIKLEY, Claudia FILIPPONE
Teaching team members: Isabelle Lequeutre

Monday 11 April 2016
9h00 – 18h00
Ticks capture « forêt de Sénart »
GROUP 1, 2, 3

Tuesday 12 April 2016
9h00 – 18h00
GROUP 1: High through put sequencing and re sequencing microarray
GROUP 2: microfluidic identification
GROUP 3: Luminex detection and other technics
Institut Pasteur
Maisons-Alfort

Wednesday 13 April 2016
9h00 – 18h00
GROUP 1: High through put sequencing and re sequencing microarray
GROUP 2: microfluidic identification
GROUP 3: Luminex detection and other technics
Institut Pasteur
Maisons-Alfort

Thursday 14 April 2016
9h00 – 12h30
analysis of experimental work
14h00 – 18h00
Pasteur museum and social event

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Friday 15 April 2016
9h00 - 10h30
Mosquitoes as vectors of arboviruses
Anna-Bella FAILLOUX
(Institut Pasteur, Paris, France)

11h00 - 12h30
Evolution of RNA viruses in vitro and in vivo
Marco VIGNUZZI
(Institut Pasteur, Paris, France)

14h00 - 15h30
Zoonotic and pandemic influenza
Ron FOUCHER
(Erasmus, Rotterdam, The Netherlands)

16h00 - 18h00
ROUND TABLE « Gain of Function »
Marco VIGNUZZI, Ron FOUCHER
**WEEK 3**

### Monday 18 April 2016

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>9h00 - 10h30</td>
<td>Infectious disease emergence in animals</td>
<td>Stephan ZIEN'TARA</td>
<td>ANSES, Maisons-Alfort, France</td>
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<tr>
<td>11h00 - 12h30</td>
<td>The zoonotic origin of hepatitis E</td>
<td>Nicole PAVIO</td>
<td>ANSES, Maisons-Alfort, France</td>
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<tr>
<td>14h00 - 15h30</td>
<td>Bovine Spongiform Encephalopathy: where is the reservoir?</td>
<td>Thierry BARON</td>
<td>ANSES, Lyon, France</td>
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<td>16h00 - 17h30</td>
<td>free time for the presentation</td>
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### Tuesday 19 April 2016

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9h00 - 10h30</td>
<td>Insights into the ecology and epidemiology of MERS-Coronavirus</td>
<td>Marcel Müller</td>
<td>Inst. Virology, Univ. Bonn, Germany</td>
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<td>11h00 - 12h30</td>
<td>Pathogenesis of emerging viroses: comparison between reservoir and human hosts</td>
<td>Thijs KUIKEN</td>
<td>ERASMUS, Rotterdam, The Netherlands</td>
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<td>14h00 – 18h00</td>
<td>Examination: Oral presentation of practical work</td>
<td>Students + TUTORS</td>
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### Wednesday 20 April 2016

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<tr>
<td>9h00 - 10h30</td>
<td>The Ebola outbreak in Western Africa</td>
<td>Amadou SALL</td>
<td>Institut Pasteur, Dakar, Sénégal</td>
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<td>11h00 - 12h30</td>
<td>Emerging Zoonoses: laboratory response to biological threats</td>
<td>Jean-Claude MANUGUERRA</td>
<td>Insititut Pasteur, Paris, France</td>
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<td>13h30 - 15h</td>
<td>Wildlife as reservoir for zoonotic transmission to domestic animals</td>
<td>Bruno CHOMEL</td>
<td>UCDAVIS, Davis, USA</td>
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<td>15h30 - 17h30</td>
<td><strong>ROUND TABLE: Ethics</strong></td>
<td>Amadou SALL, Jean-Claude MANUGUERRA, Bruno CHOMEL, Jon RICHMON (The Scottish Accreditation Board, UK), Hub ZWART (The Netherlands)</td>
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<td>17h30</td>
<td>End of the course</td>
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