

Scientific Programme

April 9/11. 2014

Emerging Infectious Diseases

9th Louis Pasteur Conference
Maladies infectieuses émergentes

Deadlines
Preferential rates: March 3rd, 2014
Abstract submission: February 3rd, 2014

Chairs
Elisabeth CARNIEL
Kenneth VERNICK
Marco VIGNUZZI
Louis LAMBRECHTS

Scientific Committee
James DI SANTO
Ivo GOMPERTS BONECA
Maria-Carla SALEH

Speakers
Elisabeth CARNIEL
Gautam DANTAS
Caroline DEMANGEL
Yoshihiro KAWAOKA
Albert KO
Trevor LAWLEY
Ian LIPKIN
Marc LIPSITCH
Didier MENARD
Scott O'NEIL
Colin PARRISH
Sarah RANDOLPH
Marilyn ROOSINCK
Tara SCOTT
L. David SIBLEY
Dave SMITH
Nils Christian STENSETH
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 **Labex IBEID**

 **Institut Pasteur**

Updated 16-Jan-14



Fifty years ago, the General Surgeon declared the end of the infectious diseases era based on the success of antimicrobial therapies that improved substantially the life expectancy in developed countries. However, infectious disease remained a problem in impoverished regions and rapid human development steadily increased the risk for emergence of new infectious diseases. The recent outbreaks of SARS, multidrug resistant MDM1 *E. coli* and the never-ending burden of malaria constitute such an example.

The Institut Pasteur has always been at the frontier of emerging infectious disease discovery and the 2008 Nobel Prize of Medicine and Physiology is a living proof of the continuous effort the institution has devoted to emerging infectious diseases since its creation 125 years ago. Nevertheless, a few decades ago, emerging infectious diseases were not the subject of interest they are today. In the last decade, however, the landscape has changed, witnessed by the resurgence or emergence of new infectious diseases. This has led to increased institutional support of research in this area that has not only improved public health but has also provided a better understanding of the scope of the problem. Sharing and disseminating this recent knowledge within the scientific community is essential. For these reasons we have decided to organize the **“9th Conference Louis Pasteur” to be held on April 9-11, 2014 at the Institut Pasteur in Paris** that will be specifically devoted to this subject. The conference will gather a broad range of participants: senior scientists, young investigators and students working in bacterial, parasitic and viral emerging diseases as well as dedicated sessions on vectors and on the impact of climate change in epidemics. We believe that this conference will mobilize the community and encourage researchers to develop collaboration across fields.

Scientific Committee

James Di Santo, Institut Pasteur, France

Ivo Gomperts Boneca, Institut Pasteur, France

Maria-Carla Saleh, Institut Pasteur, France

Chairs of the conference

Elisabeth Carniel, Institut Pasteur, France

Kenneth Vernick, Institut Pasteur, France

Marco Vignuzzi, Institut Pasteur, France

Louis Lambrechts, Institut Pasteur, France



Wednesday 9th April 2014

5:45 pm	Welcome addresses
6:00 pm	Keynote lecture William Hanage , Harvard School of Public Health, USA <i>Impact of vaccination on the evolution of pneumococci</i>
7:00 pm	Cocktail in the hall of CIS

Thursday 10th April 2014

Session 1 // Emerging bacterial diseases - Chair: Elisabeth Carniel	
9:00 am	Elisabeth Carniel , Institut Pasteur, France Title to be announced
9:30 am	Albert Ko , Yale School of Public Health, USA <i>Leptospirosis: An emerging urban slum health problem</i>
10:00 am	Two short talks
10:30-11:00 am	Coffee Break
11:00 am	Trevor Lawley , Wellcome Trust Sanger Institute, UK <i>Emergence and spread of epidemic Clostridium difficile throughout the global healthcare system</i>
11:30 am	Caroline Demangel , Institut Pasteur, France <i>Buruli ulcer disease: emergence of control</i>
12:00 pm	Gautam Dantas , Washington University, USA Exchanging antibiotic resistomes of human and environmental microbiota
12:30-15:00 pm	Lunch and Poster sessions

Session 2 // Emerging parasitic diseases - Chair: Ken Vernick	
3:00 pm	Didier Ménard , Institut Pasteur du Cambodge, Cambodia <i>Artemisinin resistant Malaria</i>
3:30 pm	Andrew Tatem , University of Florida, USA <i>Mapping and modeling human and vector-borne disease mobility</i>
4:00 pm	Two short talks
4:30-5:00 pm	Coffee Break

5:00 pm	L. David Sibley , Washington University, USA Title to be announced
5:30 pm	Willem Takken , Wageningen University, The Netherlands Title to be announced
7:00 pm	Gala diner

Friday 11th April 2014

Session 3 // Emerging viral diseases - Chair: Marco Vignuzzi	
9:00 am	Marco Vignuzzi , Institut Pasteur, France
9:30 am	Yoshihiro Kawaoka , University of Wisconsin, USA
10:00 am	Two short talks
10:30-11:00 am	Coffee Break
11:00 am	Colin Parrish , Cornell University, USA <i>Emergence of new epidemic viruses - the molecular bases of host range variation of canine parvovirus and canine influenza virus</i>
11:30 am	Marilyn Roossinck , Penn State University, USA Title to be announced
12:00 pm	Ian Lipkin , Columbia University, USA <i>Small Game Hunting</i>
12:30-15:00 pm	Lunch and Poster sessions

Session 4 // Vector-borne emerging diseases - Chair: Louis Lambrechts	
3:00 pm	Scott O'Neill , Monash University, Australia <i>The use of Wolbachia infections to control dengue transmission by mosquitoes</i>
3:30 pm	Tom Scott , University of California at Davis, USA <i>Fine-scale patterns in dengue invasion and persistence</i>
4:00 pm	Two short talks
4:30-5:00 pm	Coffee Break
5:00 pm	Sarah Randolph , University of Oxford, UK <i>Biology determines the presence, but socio-economics triggers the emergence of tick-borne diseases</i>
5:30 pm	Dave Smith , John Hopkins University, USA <i>Models of Mosquito-borne transmission of malaria</i>
6:00 pm	Closing Keynote lecture Nils Christian Stenseth , Centre for Ecological and Evolutionary Synthesis, Norway <i>Climate change and impact on emerging infectious diseases</i>