

# Mechanisms behind chronic infections (TB, HBV, HIV...): molecular and cellular mechanisms, evasion mechanisms, immunity,...

Les Pensières  
Fondation Mérieux Conference Center  
Veyrier-du-Lac - France

2-4 May 2016

## Steering Committee:

- David Durantel
- Inca Kusters
- Jacques Louis
- Nicolas Manel
- Tom Ottenhoff
- Valentina Picot
  
- Cindy Grasso, meeting coordinator

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# Scientific programme

Monday 2 May 2016

16:30 - 17h00	Registration	
17:15 - 17:30	Welcome address	Fondation Mérieux

## Session 1

Biology of infections with HBV, HIV, and TB

Chair: Jacques Louis

17:30 - 17:50	Biology of HBV infection	Maura Dandri
17:50 - 18:05	Discussion	
18:05 - 18:25	The basics of HIV infection, reservoir establishment and the dynamics of immune responses	Asier Saez-Cirion
18:25 - 18:40	Discussion	
19:15	Welcome dinner	

Tuesday 3 May 2016

## Session 1 Continued

08:30 - 08:50	Biology of TB infection	Tom Ottenhoff
08:50 - 09:05	Discussion	

## Session 2

Early host/pathogen interplay: impact on the outcome of infection

Chair: Inca Kusters

09:05 - 09:25	SERINCs: novel restriction factors counteracted by HIV Nef	Heinrich Gottlinger
09:25 - 09:40	Discussion	
09:40 - 09:55	The regulatory HBx protein contributes to evasion from intrinsic antiviral response	Christine Neveu
09:55 - 10:10	Discussion	
10:10 - 10:30	Coffee break	
10:30 - 10:50	Early events in TB infection	Olivier Neyrolles
10:50 - 11:05	Discussion	



# Scientific programme

## Session 3

### Determinant of persistence in chronic infections

Chair: David Durantel

11:05 - 11:25	How are newly integrated human retroviruses silenced?	Paul Lehner
11:25 - 11:40	Discussion	
11:40 - 12:00	cccDNA biology and strategy to silence or degrade it	Massimo Levrero
12:00 - 12:15	Discussion	
12:15 - 12:35	Latent TB, a spectral entity	JoAnne Flynn
12:35 - 12:50	Discussion	
13:00 - 14:30	Lunch	

## Session 4

### Molecular mechanism of innate immune evasion

Chair: Nicolas Manel

14:30 - 14:50	Subcellular mechanisms of innate immunity evasion in HBV infection	David Durantel
14:50 - 15:05	Discussion	
15:05 - 15:25	Restriction by SAMHD1 limits cGAS/STING-dependent innate and adaptive immune responses to HIV-1	Jan Rehwinkel
15:25 - 15:40	Discussion	
15:40 - 16:00	Intracellular DNA sensing mechanisms during infection with Mtb	Andrea Ablasser
16:00 - 16:15	Discussion	
16:15 - 16:40	Coffee break	

## Session 5

### Molecular mechanism of adaptive immune evasion

Chair: Tom Ottenhoff

16:40 - 17:00	Induction of protective innate immune responses: lessons learned from HIV-2	Nicolas Manel
17:00 - 17:15	Discussion	
17:15 - 17:35	Metabolic regulation of immunity in chronic HBV infection	Laura Pallet
17:35 - 17:50	Discussion	



# Scientific programme

17:50 - 18:10	TB adaptive immune evasion	Simone Joosten
18:10 - 18:25	Discussion	
19:30	Dinner	

Wednesday 4 May 2016

## Session 6

Immune cell exhaustion in chronic infections and strategies to revert it

Chair: Tom Ottenhoff

08:30 - 08:50	CD8-T cells and natural HIV control: emerging clues to improve function of exhausted cells	Asier Saez-Cirion
08:50 - 09:05	Discussion	
09:05 - 09:25	HBV and T cell Exhaustion	Gabrielle Missale
09:25 - 09:40	Discussion	
09:40 - 10:00	The manifold nature of myeloid cells in TB	Anca Dorhoi
10:00 - 10:15	Discussion	
10:15 - 10:45	Coffee break	

## Session 7

Immunopathogenesis: mechanisms and therapeutic options

Chair: Olivier Neyrolles

10:45 - 11:05	HBV Immunopathogenesis	Robert Thimme
11:05 - 11:20	Discussion	
11:20 - 11:40	Metabolite clusters in acute and chronic infection	Hendrik Streeck
11:40 - 11:55	Discussion	
11:55 - 12:15	NN cell and viral dynamics within lymph nodes during pathogenic and non pathogenic SIV infection	Michaela Muller-Trutwin
12:15 - 12:30	Discussion	
12:30 - 14:00	Lunch	
14:00 - 14:20	Sensing of HIV-1 entry triggers a type I interferon response in primary macrophages	Philippe Benaroch
14:20 - 14:35	Discussion	
14:35 - 14:50	Understanding and Intervening in HIV Associated Tuberculosis	Robert Wilkinson
14:50 - 15:05	Discussion	
15:05 - 15:15	Concluding remarks and end of the meeting	

