

# Musketeers and Samurai together against HIV and hepatitis

*France – Japan Symposium on HIV and hepatitis basic research*

**ANRS AC41 & AC42**

**October 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> 2019**

Institut Pasteur, 25-28 Rue du Dr Roux - 75015 Paris

## **Scientific and Organizing Committee**

**France** : Victor Appay, François-Loïc Cosset, David Durantel, Michaela Müller-Trutwin

**Japan** : Tetsuro Matano, Masamichi Muramatsu, Masafumi Takiguchi, Takaji Wakita

**ANRS** : François Dabis, Audrey Dumas, Blandine Rimbault et Livia Pedroza-Martins

## **PROGRAM**

**Day 1: October 14<sup>th</sup> 2019**

**Institut Pasteur - Amphitheater Duclaux (28 rue du Dr Roux)**

**From 8h15**

**WELCOME**

**9h00-9h15**

**Introduction: Victor Appay & David Durantel**

### **Session 1 – Molecular aspects of infectious processes & Virus/host interactions**

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**Chairs: Clarisse Berlioz-Torrent & Massimo Levrero**

**9h15-9h35**

**Title: Enveloped viruses distinct from HBV induce dissemination of hepatitis D virus in vivo**

**François Loïc Cosset, Lyon, France**

**9h35-9h55**

**Title: Imaging and modeling for nuclear cell biology and HIV**

**Christophe Zimmer, Paris, France**

**9h55-10h15**

**Title: Spatial organization and transcription of HBV DNA: a high-order genome architecture perspective**

**Christine Neuveut, Montpellier, France**

**10h15-10h35**

**Title: The nuclear pore: a molecular hub where HIV-1 and innate defenses meet**

**Nathalie Arhel, Montpellier, France**

**10h35-11h00**

**COFFEE BREAK**

### **Session 2 – Viral production mechanisms and pathogenesis**

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**Chairs: Kenzo Tokunaga & Francesca Di Nunzio**

- 11h00-11h20** Title: **Peroxioredoxin 1, a novel HBx-interacting protein, interacts with Exosc5 and negatively regulates HBV propagation through degradation of HBV RNA**  
**Lin Deng, Kobe, Japan**
- 11h20-11h40** Title: **Virus-induced STAT3 signaling is a risk factor for hepatic steatosis and hepatocellular carcinoma**  
**Joachim Lupberger, Strasbourg, France**
- 11h40-12h00** Title: **Apolipoprotein E is an HIV-1-inducible inhibitor of viral production and infectivity in macrophages**  
**Yasuo Ariumi, Kumamoto, Japan**
- 12h00-12h20** Title: **HBV alternative splicing and liver injuries**  
**Patrick Soussan, Paris, France**
- 12h20-12h40** Title: **Role of dendritic cells during HTLV infection**  
**Hélène Dutartre, Lyon, France**
- 12h40-14h10** LUNCH (in 'The 25', 25 rue du Dr Roux)

### **Session 3 – Immune responses and Pathogenesis**

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**Chairs: Takamasa Ueno & Michaela Muller-Trutwin**

- 14h10-14h30** Title: **Role of circulating precursors of dendritic cells in HIV-1 infection**  
**Philippe Benaroch, Paris, France**
- 14h30-14h50** Title: **Impact of a naturally occurring Nef genotype on HIV-1 immune control in vivo**  
**Takamasa Ueno, Kumamoto, Japan**
- 14h50-15h10** Title: **Neuro-immune control of mucosal viral infections**  
**Yonatan Ganor, Paris, France**
- 15h10-15h30** Title: **Co-evolution of HIV-1 and CD8<sup>+</sup> T-cells**  
**Masafumi Takiguchi, Kumamoto and Tokyo, Japan**

**15h30-16h00** COFFEE BREAK

### **Session 4 – Example of successful Fr-Jp collaborative experiences + Excellence talk**

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**Chairs: David Durantel & Ai Kawana-Tachikawa**

- 16h00-16h20** Title: **The STING ligand cGAMP potentiates the efficacy of vaccine-induced CD8<sup>+</sup> T-cells**  
**Victor Appay, Paris, France**
- 16h20-16h40** Title: **Priming of HIV-1-specific CD8<sup>+</sup> T cells with strong functional properties from naïve T cells**  
**Nozomi Kuse, Tokyo, Japan**
- 16h40-17h00** Title: **Exploring the dynamics of multiple infection events in cell culture, a multidisciplinary approach**  
**Fabrizio Mammano, Paris, France**
- 17h00-17h20** Title: **Hepatitis Delta Virus (HDV) histone mimicry drives the recruitment of cellular BRF chromatin remodelers for viral RNA replication**  
**Massimo Levrero, Lyon, France**

**17h30** "CHEESE AND WINE" social gathering (in 'The 25')

*End of the day*

**Day 2: October 15<sup>th</sup> 2019**  
**Institut Pasteur - Amphiteater Duclaux (28 rue du Dr Roux)**

**8h30**                      **WELCOME**

**Session 5 – Innate immunity**

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**Chairs: Yasuo Ariumi & Thomas Baumert**

- 09h00-09h20**            Title: **Interplay between HBV/HDV and liver innate immunity**  
**Julie Lucifora, Lyon, France**
- 09h20-09h40**            Title: **MARCH8 targets a variety of viral envelope glycoproteins**  
**Kenzo Tokunaga, Tokyo, Japan**
- 09h40-10h00**            Title: **Interferon-induced restriction of HIV-1 infection**  
**Caroline Goujon, Montpellier, France**
- 10h00-10h20**            Title: **MHC-E restricted control by NK cells in response to SIV infection**  
**Nicolas Huot, Paris, France**
- 10h20-10h40**            Title: **Humanized mouse models to study HBV immunopathologies**  
**Hélène Strick-Marchand, Paris, France**

**10h40-11h10**            **COFFEE BREAK**

**Session 6 – Adaptive immunity**

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**Chairs: Masafumi Takiguchi & Anne Hosmalin**

- 11h10-11h30**            Title: **Dynamics of neutralizing antibody induction against highly resistant SIV**  
**Hiroyuki Yamamoto, Tokyo, Japan**
- 11h30-11h50**            Title: **Potent Broadly Neutralizing Human Antibodies Against HIV-1 and Hepatitis Viruses**  
**Hugo Mouquet, Paris, France**
- 11h50-12h10**            Title: **Systemic and local T cell immunity during chronic HIV infection: from peripheral blood to adipose tissue**  
**Christine Bourgeois, Kremlin Bicêtre, France**
- 12h10-12h30**            Title: **The impact of hepatic antigen presentation on HBV-specific CD8 T cell responses**  
**Masanori Isogawa, Nagoya, Japan**

**12h30-14h00**            **LUNCH (in 'The 25')**

**Session 7 – Vaccination**

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**Chairs: Hiroyuki Yamamoto & Olivier Schwartz**

- 14h00-14h20**            Title: **Comprehensive analyses of cellular and molecular mechanisms underlying HIV-1 vaccine immunity**  
**Nabila Seddiki, Créteil, France**
- 14h20-14h40**            Title: **A vaccine selectively eliciting Gag/Vif-specific CD8+ T but not CD4+ T cells**  
**Tetsuro Matano, Tokyo, Japan**
- 14h40-15h00**            Title: **Chimeric HBV-HCV envelope proteins self-assemble into subviral particles that elicit broadly cross-neutralizing antibodies against HCV : towards a bivalent hepatitis B-C vaccine ?**  
**Philippe Roingard, Tours, France**

**15h00-15h20** Title: **Vaccine-induced innate and adaptive memories**  
**Anne Sophie Beignon, Fontenay Aux Roses, France**

**15h20-16h00** COFFEE BREAK

## **Session 8 – Cure / Therapy**

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**Chairs: Tetsuro Matano & Françoise Barre-Sinoussi**

**16h00-16h20** Title: **T cell aging at molecular level during HIV infection**  
**Ai Kawana-Tachikawa, Tokyo, Japan**

**16h20-16h40** Title: **Approaches to target HBV cccDNA**  
**Fabien Zoulim, Lyon, France**

**16h40-17h00** Title: **Immunogenetics and HIV remission**  
**Asier Saez Cirion, Paris, France**

**17h00-17h20** Title: **Caspase inhibition a novel strategy for HIV cure?**  
**Jerome Estaquier, Paris, France**

**17h25-17h40** Intervention: **François Dabis, ANRS director**

*End of the day*

*Evening* **Speakers' & chairs' dinner**

**Day 3: October 16<sup>th</sup> 2019**  
**Institut Pasteur - Amphiteater Monod (25 rue du Dr Roux)**

**9h00**

**WELCOME**

**ANRS resources**

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**Chairs: Victor Appay & David Durantel**

**9h30-9h50**

Title: **HIV and Hepatitis ANRS cohorts**  
**Ventzislava Petrov-Sanchez, Paris, France**

**9h50-10h10**

Title: **Primate Models for viral infections and IDMIT**  
**Roger Le Grand, Paris, France**

**Session: Speaker with typhoon experience**

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**10h10-10h30**

Title: **Multiple approach to HIV cure: Towards a better understanding of the precise cellular regulation of HIV-1 infection**  
**Hiroaki Takeuchi, Tokyo, Japan**

**Closing remarks & one to one meeting planning**

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**10h30-10h50**

**Victor Appay & David Durantel & Tetsuro Matano**

**One to one meetings (in 3x12 parallel sessions) in diverse meeting rooms**

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**11h00-**

**11h30**

**11h30-**

**Consult and complete displayed charts 12h00**

**12h00-**

**12h30**

**COFFEE provided during one to one meetings**

**Lunch and visit of the Institut Pasteur Museum (for speakers and chairs)**

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**13h00-16h30**