# The 4th France–Japan Symposium on HIV/AIDS and infectious disease basic and translational research

## NIID/JIHS & ANRS MIE AC41

***5–7 November 2026 · Hotel The Manhattan, Makuhari (Chiba), Japan***

## PROGRAM

## DAY 1 | November 5, 2026

### Opening words

**8h30-9h00** *(5 min each)*

**Chair: Tetsuro Matano** *(National Institute of Infectious Diseases, Japan Institute for Health Security)*

- **Manabu Sumi, Department of Infectious Disease Prevention and Control, Public Health Bureau, Ministry of Health, Labour and Welfare, Japan**
- **Xavier Bressaud, Counsellor for Science and Technology, Embassy of France in Japan**
- **Michaela Müller-Trutwin** — *ANRS MIE AC41 Representative*
- **Ai Kawana-Tachikawa & Victor Appay** — *Organizing Committee*

### Session 1 - New angles of virus-cell interaction

**9h00-10h40** *(15min Presentation + 5min Q/A)*

**Chairs: Franck Mortreux** *(Laboratory of Biology and Modelization of the Cell (LBMC), CNRS UMR 5239 - Inserm 1293)* **& Kenzo Tokunaga** *(Department of Infectious Disease Pathology, National Institute of Infectious Diseases, Japan Institute for Health Security)*

- **Francesca Di Nunzio** *(Institut Pasteur of Paris, Virology Department):*
  Capsid Stabilization Reprograms the Nuclear Fate of the HIV Genome
- **Kazuaki Monde** (*Department of Microbiology, Faculty of Life Sciences, Kumamoto University):*
  Mechanisms of lenacapavir-mediated disruption of HIV-1 particle formation and resistance during the late stage of the viral life cycle
- **Hélène Dutartre** *(Retroviral Oncogenesis Team, Centre International de Recherche en Infectiologie, Retroviral Oncogenesis, Inserm) :*
  HTLV-1 hijacks the neuronal SNAP25 protein to ensure viral dissemination
- **Yasumasa Iwatani, Hirotaka Ode** *(Department of Microbiology and Immunology, Hamamatsu University School of Medicine):*
  Nanopore sequencing of the HIV-1 near-full genome for drug resistance test and analysis of Lenacapavir resistance mutations
- **Karim Majzoub** *(Institut de Génétique Moléculaire de Montpellier (IGMM), Univ Montpellier, CNRS):*
  Deltaviruses spread through a viral Trojan Horse

**10h40-11h00** **COFFEE BREAK (20min)**

## Session 2 - From viruses and genomes

**11h00-12h40** *(15min Presentation + 5min Q/A)*

**Chairs: Delphine Muriaux** *(Montpellier Institute for Infectious Disease Research (IRIM), CNRS, University of Montpellier)* **& *Kei Sato*** *(Laboratory of System Virology, Institute of Medical Science, the University of Tokyo)*

- **Yorifumi Satou** *(Department of Pathogenic Microbiology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University):*
  Different Strategies for Latency in HIV-1 and HTLV-1 Infection
- **Monsef Benkirane** *(Institut de Génétique Humaine. Laboratoire de Virologie Moléculaire, CNRS Université de Montpellier, Montpellier) :*
  Evolving perspectives on HIV-1 gene regulation and persistence.
- **Makoto Yamagishi** *(Graduate School of Frontier Sciences, The University of Tokyo):*
  Integrated genomic and epigenomic analysis for therapeutic target discovery in HTLV-1-associated diseases
- **Etienne Simon- Loriere** (*Institut Pasteur of Paris, Evolutionary Genomics of RNA Viruses) :*
  Characterization and evolutionary history of novel SARS-CoV-2-related viruses in bats from Cambodia
- **Tomoya Kujirai** *(Laboratory of Chromatin Structure and Function, Institute for Quantitative Biosciences, The University of Tokyo):*
  Molecular machines on chromatin: cryo-EM insights into DNA sensing and transcription

**12h40-14h00** **LUNCH**

## Session 3 -Diving into cellular and humoral immunity

**14h00-16h00** *(15min Presentation + 5min Q/A)*

**Chairs: Victor Appay** *(Inserm, ImmunoConcEpT, University of Bordeaux)* **& Takamasa Ueno** *(Division of Infection and Immunity, Joint Research Center for Human Retrovirus Infection, Kumamoto University)*

- **Nozomi Kuse** *(Department of Latent Infection, National Institute of Infectious Diseases, Japan Institute for Health Security):*
  Immune restoration of functional HIV-1-specific CD8+ T cells by long-term ART
- **Hugo Mouquet** *(Institut Pasteur of Paris, Humoral Immunology Unit) :*
  Human Broadly Neutralizing Antibodies: Insights into Antiviral Immunity
- **Takuto Nogimori** *(Laboratory of Precision Immunology, Center for Intractable Diseases and ImmunoGenomics, National Institutes of Biomedical Innovation, Health, and Nutrition):*
  Anti-Tat Antibodies Induced by mRNA Therapeutic Vaccination Mediate Fc-Dependent Targeting of SIV-Infected Cells
- **Nabila Seddiki** *(Immune Diseases, Microbiology and Innovative Therapies (IDMIT/UMRS1184), Inserm, Paris-Saclay University, CEA, Fontenay-aux-Roses, Le Kremlin-Bicêtre):*
  Dynamics of Circulating Follicular Helper and Regulatory T-Cell Memory Induced by mRNA, Inactivated, and Live-Attenuated Vaccines
- **Shohei Hori** *(Graduate School of Pharmaceutical Sciences, The University of Tokyo):*
  Shaping regulatory T cell function in the trade-off between immune tolerance and host defense
- **Asier Sáez-Cirión** *(Institut Pasteur of Paris, Viral Reservoirs and Immune Control Unit) :*
  NK cell education and HIV control: insights from the RHIVIERA01 trial

**16h00-16h20** **COFFEE BREAK (20min)**

## Session 4 - Multiple colors of innate host factors

**16h20-18h00** *(15min Presentation + 5min Q/A)*

**Chairs: Carla Saleh** *(Institut Pasteur of Paris, Viruses and RNA Interference Unit)* **& Atsushi Kawaguchi** *(Department of Infection Biology, Institute of Medicine, University of Tsukuba)*

- **Nathalie Arhel** *(Institute for Infectious Disease Research, CNRS, University of Montpellier):*
  An inflammatory signature for paediatric Influenza-associated Acute Necrotizing Encephalopathy
- **Jun Arii** *(Graduate School of Biomedical and Health Sciences, Hiroshima University):*
  APOBEC3 restriction and viral evasion across human herpesviruses: from HHV-6A/6B divergence to comparative analysis
- **Philippe Benaroch** *(Myeloid Cells and Immunity Team, Institut Curie):*
  The role of GAS7 in the antiviral response of macrophages
- **Kosuke Miyauchi** *(Laboratory for Virology and Infectious Diseases, Department of Microbiology and Immunology, Graduate School of Medicine/Faculty of Medicine, The University of Osaka):*
  Inhibition of Viral Spike Incorporation by TMPRSS2
- **Sébastien Nisole** *(Institute for Infectious Disease Research, CNRS, INSERM, University of Montpellier):*
  From flaviviruses to HIV-1: Discovery of MITD1 as a novel interferon-induced antiviral factor targeting ESCRT-III

**18h30-20h30** **RECEPTION**

***End of the day***

# DAY 2 | November 6, 2026

**From 8h30** **WELCOME**

## Session 5 - Models show us a path

**8h45-10h25** *(15min Presentation + 5min Q/A)*

**Chairs: Veronika Krchlikova** *(Centre International de Recherche en Infectiologie, Inserm, CNRS, ENS de Lyon, Université Claude Bernard Lyon 1)* **&Takushi Nomura** *(Division of Virology and Pathology, Joint Research Centre for Human Retrovirus Infection, Kumamoto University)*

- **Michaela Müller-Trutwin** *(Institut Pasteur, Inflammation and Viral Persistences Unit):*
  Impairement of antigen-specific natural killer cells in Long Covid patients: lessons from nonhuman primates
- **Noriyo Nagata** *(Department of Infectious Disease Pathology, National Institute of Infectious Diseases, Japan Institute for Health Security):*
  Animal models for emerging and re-emerging infectious diseases
- **James Di santo** *(Institut Pasteur of Paris, Innate Immunity Unit):*
  Human Immune System Mouse Models for Developing and Testing HIV 'Cure' Strategies
- **Kazuo Takayama** *(Medical Research Laboratory, Institute of Integrated Research, Institute of Science Tokyo):*
  Virus research using organoids and organ-on-a-chips
- **Tamara Giles-Vernick** *(Institut Pasteur of Paris, Anthropology and Ecology of Disease Emergence Unit):*
  Knowledge, Trust, and Anticipation: An Anthropology of Vector-Borne Disease

**10h25-10h45** **COFFEE BREAK (20min)**

## Session 6 - Young investigators session

**10h45-12h45** (*10min Presentation + 2min Q/A)*

**Chairs: Olivier Schwartz** (*Institut Pasteur of Paris, Virus and Immunity Unit*) **& Hiroyuki Yamamoto** *(AIDS Research Center, National Institute of Infectious Diseases, Japan Institute for Health Security)*

- **Innocent Daniel** *(Division of Virology and Pathology, Joint Research Centre for Human Retrovirus Infection, Kumamoto University):*
  Age-Associated Dysregulation of Pulmonary Immune Cell Recruitment Drives Increased Severity of SARS-CoV-2 Infection
- **Mateo Bazire** *(Laboratoire de Biologie et Modélisation de la Cellule (LBMC), Ecole Normale Supérieure de Lyon, CNRS):*
  Decoding provirus-host 3D genome architecture with COSMIC-4C in HTLV-1
- **Yuri V Fukushima** *(Laboratory for Viral Infection Control, Frontier Science Research Center, University of Miyazaki):*
  Genetic and functional diversity of the bovine anti-retroviral host factor TRIM5
- **Emma Beaumont** *(Institut Pasteur of Paris, Université Paris-Cité, HIV, Inflammation and Viral Persistances Unit) :*
  Impact of obesity and HIV on human NK cell profiles and response to IL-21 revealed by single-cell transcriptomics
- **Tadashi Inuzuka** *(Department of Gastroenterology and Hepatology, Kyoto University):*
  A CRISPR-based Genome-wide Loss-of-function Screen Defines a Role of Host Metabolism in Regulating Hepatitis B Virus Infection
- **Andrea Calamarte** *(Institut Pasteur of Paris, Université Paris Cité, Antiviral Activities of Antibodies Group):*
  TMPRSS2 reduces antibody recognition of SARS-CoV-2 spike

- **Kayo Matsuzawa** *(Department of Drug Development, National Institute of Infectious Diseases, Japan Institute for Health Security):*
  Structure mapping of the hepatitis B and D virus receptor NTCP and its application for determining the multiple drug pockets
- **Maël Gourvès** *(Institut Pasteur of Paris, Université Paris Cité, Viral Reservoirs and Immune Control Unit) :*
  Memory $CD8^+$ T Cells Co-expressing TCF1 and ID2 Combine Effector and Stem-like Functions in Persistent Infections
- **Kinuma Ndaki** *(Division of Infection and Immunity, Joint Research Center for Human Retrovirus Infection, Kumamoto University):*
  Plasma uridine characterizes chronic inflammation in people living with HIV
- **Virgile Rat** *(Montpellier Institute for Infectious Disease Research (IRIM), CNRS, University of Montpellier):*
  Functional and Structural Characterization of SARS-CoV-2 Virus-Like Particles for Assembly and Entry Mechanism Studies

**12h45-14h15** **LUNCH**

## Session 7 - Vaccine and therapy development

**14h15-16h15** (*15min Presentation + 5min Q/A)*

**Chairs: Anavaj Sakuntabhai** *(Institut Pasteur of Paris)* **& Hiroaki Takeuchi** *(Department of High-risk Infectious Disease Control, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo)*

- **David Durantel** *(Center for Integrated Research on Infectious diseases (CIRI), INSERM U1111, CNRS UMR 5308, University of Lyon):*
  Navigating viral and host functions to R&D antiviral strategies against HBV (and HDV)
- **Hiroshi Ishii** *(Department of Latent Infection, National Institute of Infectious Diseases, Japan Institute for Health Security):*
  Induction of innate immune memory by intranasal immunization with LC-Plasma
- **Chantal Pichon** *(INTHERNA – ART-ARNm Research Unit, Inserm):*
  Coupling structural antigen selection with innovative LNP formulation for the development of a multivalent Orthopoxvirus mRNA vaccine
- **Yayoi Natsume-Kitatani** *(Graduate School of Science, Technology and Innovation, Kobe University):*
  AdjuvantDB: Data-Driven Discovery and Evaluation of Vaccine Adjuvants through Transcriptomic Profiling
- **Rodolphe Thiébaut** *(Inserm, Bordeaux University Hospital):*
  How AI can help accelerating vaccine development?
- **Jumpei Ito** *(Bioinformatics Center, Research Institute for Microbial Diseases, The University of Osaka):*
  Predicting Viral Antigenicity, Evolution, and Epidemic Dynamics for Vaccine Development

## Overview of Next Steps

**16h15-16h25**

**Ai Kawana-Tachikawa & Victor Appay** — *Organizing Committee*

**16h25-17h00** **COFFEE BREAK (35min)**

## One-to-one discussions

**17h00-18h00 (2 parallel sessions)**

**18h30-20h30** **Social Gathering Hosted by French Embassy & Institut Pasteur of Japan**

***End of the day***

# DAY 3 | November 7, 2026

**8h30** **WELCOME**

## Session 8 - Focus on France-Japan collaboration

**8h45-9h20**

**Chairs: Nathalie Arhel** *(Institute for Infectious Disease Research, CNRS, University of Montpellier)* **& Shinichi Machida** *(Department of Structural Virology, National Institute of Global Health and Medicine, Japan Institute for Health Security)*

- **Nanami X Kato, Akatsuki Saito** (Laboratory for Viral Infection Control, Frontier Science Research Center, University of Miyazaki): (*10min)*
  France–Japan Collaborative Research on Domestic Cat Hepatitis B Virus: Toward a New Animal Model for HBV Research
- **Shiho Torii** *(Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, Osaka University): (10min)*
  Mouse-to-mosquito transmission challenges differential transmissibility between Zika virus lineages
- **Spyros Lytras** *(Institut Pasteur of Paris, Antigen Evolution & Design Unit): (7min)*
  AI predictions of virus-receptor interactions reveal molecular determinants of host tropism in merbecoviruses
- **Jeremy Dufloo** *(Institute for Integrative Systems Biology, CSIC-Universitat de València, Paterna, València, Spain): (7min)*
  Characterizing coronavirus receptor usage across genera: insights from embecoviruses and sarbecoviruses

**9h20-9h40 Closing remarks**

- **Anavaj Sakuntabhai, Institut Pasteur du Japon**
- **Nacer Boubenna, INSERM office in Tokyo**
- **Michaela Müller-Trutwin** — *Organizing Committee*

## One-to-one discussions

**10h00-12h00 (4 parallel sessions)**

## Scientific & Organizing Committee

**Japan:** Ai Kawana-Tachikawa[1], Nozomi Kuse[1], Shinichi Machida[2], Akatsuki Saito[3], Koichi Watashi[1], Makoto Yamagishi[4], Hiroyuki Yamamoto[1], Takuya Yamamoto[5].
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**France :** Victor Appay[1,2], Michaela Müller-Trutwin[3]*(chair of AC41)*, Philippe Benaroch[4], Nathalie Arhel[5]
*[1] INSERM, [2] Université de Bordeaux, [3] Institut Pasteur, [4]Institut Curie, [5]CNRS*

**ANRS Emerging infectious diseases (ANRS MIE):** Nathalie Alazard (Institut Pasteur)
Guia Carrara, Dahlia Chebbah


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