

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

JIHS/NIID & 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*)

- **Embassy of France in Japan**
- **Ministry of Health, Labour and Welfare, 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 + 2-3min Q/A each)

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 Iwamtani, Hirotaka Ode** (*Department of Microbiology and Immunology, Hamamatsu University School of Medicine, Clinical Research Center, NHO Nagoya Medical Center*):
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 + 2-3min Q/A each)

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 Microbiology and Immunology, Faculty of Medicine, Hokkaido University):
Different Strategies for Latency in HIV-1 and HTLV-1 Infection
- **Moncef Benkirane** (Institut de Génétique Moléculaire de Montpellier (IGMM), Univ Montpellier, CNRS) :
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 adaptive immunity

14h00-16h00 (15min Presentation + 2-3min Q/A each)

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

- **Asier Sáez-Cirión** (Institut Pasteur of Paris, Viral Reservoirs and Immune Control Unit) :
Resilient CD8 T cells: an alternative differentiation pathway associated with optimal response against persistent viruses
- **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
- **Shouhei 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

16h00-16h20 COFFEE BREAK (20min)

Session 4 - Multiple colors of innate host factors

16h20-18h00 (15min Presentation + 3-5min Q/A each)

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 Arie** (*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

From 8h30

WELCOME

Session 5 - Models show us a path

8h45-10h25 (15min Presentation + 2-3min Q/A each)

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*): Impairment 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 Gilles-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 + 2-3min Q/A each)

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 and HIV-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 Persistences 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*):
Functional structure mapping of sodium taurocholate cotransporting polypeptide (NTCP) and its potential as a drug target for anti-hepatitis virus compounds
- **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 + 2-3min Q/A each)

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** (*International Center for Research in Infectious Diseases (CIRI), University of Lyon, Inserm, CNRS*):
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*

16h25-16h45

COFFEE BREAK (20min)

One-to-one discussions

16h45-17h45 (2 parallel sessions)

18h30-20h30

Social Gathering Hosted by French Embassy & Institut Pasteur du Japon

End of the day

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

9h20-9h45

Introduction to IPJ & Closing remarks

One-to-one discussions

10h00-12h00 (4 parallel sessions)

15h00-16h00

IPJ Facility Tour (*optional*)

Scientific & Organizing Committee

Japan: Ai Kawana-Tachikawa¹, Nozomi Kuse¹, Shinichi Machida², Akatsuki Saito³, Koichi Watashi¹, Makoto Yamagishi⁴, Hiroyuki Yamamoto¹, Takuya Yamamoto⁵.

¹ NIID/JIHS, ²NIGHM/JIHS, ³University of Miyazaki, ⁴The University of Tokyo, ⁵NIBN

France : Victor Appay^{1,2}, Michaela Müller-Trutwin³(*chair of AC41*), Philippe Benaroch⁴, Nathalie Arhel⁵

¹ INSERM, ² Université de Bordeaux, ³ Institut Pasteur, ⁴Institut Curie, ⁵CNRS

ANRS Emerging infectious diseases (ANRS MIE): Nathalie Alazard (Institut Pasteur)

Guia Carrara, Dahlia Chebbah