

Program

Annual meeting of the AC41 ANRS Emerging infectious diseases

Shaping the Future of Gene Therapy with New Vectors The First Symposium of the ThéGéVec Group

November 28th, 2025
Institut Pasteur, Paris

9h30	OPENING COFFE
9h40-10h00	WELCOMING SESSION: <i>Michaela Müller-Trutwin (Chair of the AC41) & Matteo Negroni (Head of of the ThéGéVec Group)</i>

Session 1 –Receptor targeting strategies

Chairs : Aurélie Albertini & Philippe Benaroch

10h00-10h30	Yves Gaudin (CNRS, Institut de Biologie Intégrative de la Cellule, Gif sur Yvette, France) <i>Retargeting VSV G towards receptors of interest using receptor blind mutants</i>
10h30-11h00	Chantal Pichon (Université d'Orléans, CNRS, Inserm Orléans, France) <i>Conquering LNP targeting strategies and challenges for effective targeting</i>
11h00-11h15	Alexis Duvergé (IBMC du CNRS, Université de Strasbourg, France) <i>Specific targeting of $\alpha\beta 1+$ glioblastoma cells by recombinant oncolytic Sindbis Virus Sinerpedox</i>
11h15-11h30	Marie Dewannieux (ART-TG, Inserm US35, Corbeil-Essonnes, France) <i>Analyzing the combined effects of pseudotype and transduction adjuvants on restriction factors, to improve lentiviral vector gene transfer efficacy in primary cells</i>
11h30-11h40	Poster Teaser Session 1 Sarah Johari - Fouzia Amirache - Amélia Aeschelmann - Alberto Florez Prada

11h40-12h00 **BREAK**

Session 2 – Innovations in AAV (adeno-associated) vectors

Chairs: Anne Galy & Stéphane Emiliani

12h00 – 12h30	Christian Buchholz (Paul-Ehrlich-Institut, Langen, Germany) <i>DARPin as instrumental tool for receptor-targeted AAVs and other gene transfer vectors</i>
12h30 – 12h45	Martin Hamann (Leibniz Institute of Virology, Hamburg, Germany) <i>Target cell-specific nanobody-engineered AAV vectors for in vivo gene therapy</i>
12h45-13h00	Poster Teaser Session 2 Milad Baroud - Danielle Arruda - Victorien Arnaud - Altan Yavuz

13h00 – 14h15

Lunch and poster session

Session 3 – Lipid nanoparticles (LNPs) and delivery systems

Chair: Chantal Pichon

14h15 – 14h45

Vladimir Muzykantov (*Institute for RNA Innovation, Philadelphia, USA*)
Fortuitous homing vs cognizant targeting of biotherapeutics in the vascular system: spatiotemporal control of endothelial delivery vs activity at nano-scale precision

14h45 – 15h15

Maximiliano Cacicedo (*University Medical Center, Mainz, Germany*)
Breaking Immunological Barriers: Next-Generation Adjuvanted mRNA-LNP Vaccines for Pan- Pathogen and Cancer Immunity

15h15-15h45

Jean-Christophe Pagès (*Université de Toulouse, CNRS, EFS, ENVT, Inserm, Toulouse, France*)
Are RNA circles virtuous?

15h45-16h00

Raul Yusef Sanchez David (*Blizard Institut, Queen Mary University of London*)
Novel strategy to enhance self-amplifying mRNA's technologies activity in mammalian cells by spatial redistribution of the vectors double stranded RNA

16h00-16h15

Nabila Laroui (*Inserm US 55 ART ARNm, University of Orléans, Orléans, France*)
Next-generation lipid nanoparticles with mucolytic lipids for mRNA nasal delivery: Toward mucosal vaccination

16h15-16h45

BREAK

Session 4 – Industrial production and manufacturing challenges

Chairs : Nicolas Grandchamp & Oscar Castanon

16h45 – 17h15

André Choulika (*Président-directeur général de Celsectis, Paris, France*)
Industrializing GMP production of Smart Cells

17h15 – 17h45

Bernard Verrier (*Université de Saint Etienne-Gimap, France*)
From HIV-1 vaccine research to nanoparticle delivery systems: a challenging journey from the bench to a start up

17h45-18h00

Anne Galy (*ART-TG, Inserm US35, Corbeil-Essonnes, France*)
Production of genetically-modified T and B cells in the perspective of clinical studies

18h00-18h15

Fabrice Porcheray (*Head of innovation département ANRS MIE*)
Comité innovation de l'ANRS MIE

18h15

End of the meeting

18h15-19h00

Wine and cheese

Scientific and organising committee:

ThéGéVec Coordination Team: Matteo Negroni, Alexis Duvergé, Jean-Christophe Pages, Yves Gaudin, Aurélie Albertini, Anne Galy, Chantal Pichon

AC41 Office: Michaela Muller-Trutwin, Victor Appay, Stéphane Emiliani, Anne-Sophie Beignon, Fernando Real, Philippe Benaroch

ANRS MIE Basic research & Innovation Departments: Dahlia Chebbah, Guia Carrara, Nathalie Alazard (Institut Pasteur), Rana Lebdy, Fabrice Porcheray.

Poster Teaser Session 1

- **Sarah Johari** (CNRS, Institut de Biologie Intégrative de la Cellule, Gif sur Yvette, France)
Optimization of the VSV G backbone for amino terminal fusion with nanobodies allowing its retargeting to receptors of therapeutic interest
- **Fouzia Amirache** (CIRI- UCB Lyon-1 – Inserm U1111 – CNRS UMR5308 – Université de Lyon)
Forging original synthetic immunological circuits to reprogram B cells
- **Amélia Aeschelmann** (Molecular Biology of Viruses and Vectors Lab, CNRS UPR9002, IBMC Strasbourg)
Mafalda: A Sindbis envelope - derived platform for specific transduction of human cells by lentivectors
- **Alberto Florez Prada** (Institut de Biologie Structurale, Université de Grenoble, UMR 5075, CEA–CNRS, Grenoble)
Development and Vectorisation of Peptide Inhibitors of Influenza Virus Replication using Directed Evolution and Lipid Nanoparticles

Poster Teaser Session 2

- **Milad Baroud** (Inserm US 55 ART ARNm and University of Orléans, 45100 Orléans, France)
Tailored Lipid Nanoparticles to Unlock the Potential of Self-Amplifying RNA Vaccines and therapeutics
- **Danielle Arruda** (Tissue Biology and Therapeutic Engineering Lab, CNRS UMR5305, IBCP–Université Lyon 1)
Development of an adjuvanted mRNA lipid nanoparticle (LNP) as a promising vaccine strategy against HIV-1
- **Victorien Arnaud** (RESTORE Institute, Inserm U1301–CNRS UMR5070, Université Paul Sabatier, Toulouse)
Optimising circular RNA production, expression efficiency, and delivery by viral pseudoparticles
- **Altan Yavuz** (Université de Grenoble Alpes, CEA, Grenoble, France)
Development of Biphasic dissolvable microneedles for vaccine delivery

Travel Grants – AC41 & AMYB Young Basic Researchers Network

The AC41 and the AMYB Young Basic Researchers Network are offering travel grants for young researchers whose abstracts (oral or poster) have been accepted for presentation at the Annual Meeting of the AC41 ANRS Emerging Infectious Diseases:

This year's two awardees are:

- **Alberto Florez Prada** (Institut de Biologie Structurale, Université de Grenoble, UMR 5075, CEA–CNRS, Grenoble, France)
- **Altan YAVUZ** (Département des Technologies pour l'Innovation en Santé, Université Grenoble-Alpes, CEA-LETI, Grenoble, France)

About the AMYB Network

The **ANRS MIE Young Basic Research Community**, created in 2021 by four young researchers funded by ANRS MIE, aims to build and strengthen connections between the agency and early-career researchers working in fundamental and clinical research in France and abroad.

✉ **Contact** : amyb.pwc@anrs.fr

🔗 **LinkedIn page** : [\(22\) AMYB: ANRS MIE Young basic research Community Network : Présentation | LinkedIn](#)

The Travel Award program will be renewed and extended in 2026 to offer wider opportunities for young researchers