











Under the High Patronage of Mr Emmanuel Macron President of the French Republic

HYBRID: Next generations of gene & cell therapies 8&9 February 2024

Day 1:8 February 2024

8:30 AM Introduction

9:00 AM Keynotes Lise Alter – Head of the French Health Innovation Agency

Anne Jouvenceau - The national acceleration strategy for biotherapies and

biomanufacturing

Session 1: 9:15am – 12:15pm The challenges associated with future viral vectors and genome editing approaches

From the main challenges, avenues and prospects for new vectors to optimized delivery and safety, and tomorrow's genome-editing strategies

Overview Academic speaker: Oumeya Adjali - Gene therapy using AAV viral vectors; from vector

engineering to preclinical evaluation

Ana Buj-Bello: Next generation AAV vectors for gene therapy of muscle disorders

• Alexis Duvergé: Specific Targeting of Cancer Cells by Lentiviral Vectors

• Annarita Miccio: Genome editing approaches for beta-hemoglobinopathies

• Aurélie Bedel: How to secure CRISPR-Cas9 use?

Start-up speakers: Sparing Vision

Round table To be announced

Session 2: 02:30pm - 05:00pm New nucleic acid therapies: applications

From prophylactic to therapeutic vaccines and the various potential uses of nucleic acids. Challenges and barriers associated with the uses of nucleic acids: shelf life, route of administration, targeting, etc.

Overview Academic speaker: Chantal Pichon - The game changing potential of mRNA-based

vaccines and therapeutics

Short talks Academic speakers:

• Nathalie Mignet: Production of lipid nanoparticles formulations for gene and cell therapy

 Philippe Barthélémy: Therapeutic oligonucleotides: efficient and specific tools to combat diseases

Round table To be announced

B2B Meetings: 12:15pm - 02:30pm & 5:00pm - 07:00pm













Day 2: 9 February 2024

8:00AM

Introduction

8:30AM **Keynotes** Cécile Martinat & Christophe Junot: National research program in biotherapies and bioproduction

Session 3: 9:00am - 11:00am Immuno cell based therapies

How can the uses of CAR be extended beyond current applications? How can we improve delivery to solid tumours, the role of the tumour environment, survival, etc.? Applications beyond cancer.

Overview To be announced

Short talks Academic speakers:

- Mitra Suman: Optimizing Adoptive Cellular Therapies in Physio- Chemical Tumor Environments for Superior Anti-Cancer Efficacy without systemic toxicity
- Emmanuel Donnadieu: Predicting efficacy and toxicity of CAR T cells using an ex vivo human model
- Marie-Caroline Dieu-Nosjean: Manipulation of tertiary lymphoid structures as the third generation of immunotherapy

Start-up speakers: Mnemo Therapeutics

Round table To be announced

Session 4: 1:30pm - 03:30pm **Cell therapies and beyond**

From the various therapeutic applications of cell therapies to exosomes: how to develop clinical uses of cell therapies, address characterisation issues, etc.? How to take full advantage of the coupling between therapeutic effect and vectorisation properties for exoxomes.

Short talks Academic speakers:

- Louis Casteilla: MSC-based ATMP: present and future
- Christelle Monville: A stem cell therapy pipeline with focus on retinitis pigmentosa and other rare indications with high unmet medical needs

Start-up speakers: Treefrog

• Christian Jorgensen: Next generation cell therapies for osteoarticular diseases

Overview Academic speakers: Philippe Menasché: Cell Therapy of Heart Failure: Cells, Exosomes,

RNAs?

Academic speakers: Short talks

Gregory Lavieu: Extracellular Vesicle-based vector for targeted therapeutics delivery

Start-up speakers: to be confirmed

• Jerome Bonnet: Programming bacteria as smart therapeutics

Conclusion To be announced

B2B Meetings : 10:30am - 01:30pm & 03:30pm - 06:30pm