



4th French International Symposium on CAR T Cells (CAR T Day)

Organized by the Faculty of Medicine and Lille University Hospital
Under the auspices of the European Society for Blood and Marrow Transplantation and the
Francophone Society of Bone Marrow Transplantation and Cellular Therapy

January 15th and 16th, 2020

Faculté de Médecine - Pôle recherche, 1 place de Verdun, 59000 Lille, France

Wednesday January 15th, 2020

08:30 - Welcome and registration

09:15 - Introduction:

*Eric Boulanger, Vice-Dean of the faculty of Medicine
Ibrahim Yakoub-Agha and Suman Mitra*

Session 1: Basics of CAR T immunotherapy

Chairs : Suman Mitra (Lille, France), Myriam Labalette (Lille, France)

- 9:30- Role of memory stem cells in CAR T therapy
Enrico Lugli (Humanitas, Milan, Italy)
- 10:00- NK cell-based cellular immunotherapy against hematological malignancies
Mattias Carlsten (Karolinska University Hospital, Stockholm, Sweden)
- 10:30- Monitoring of CAR T cells targeting leukemic stem cells: lessons from pre-clinical models
Monica Guzman (Weill Cornell Medicine, New York, USA)
- 11:00- Tuning cytokine-induced signaling pathways to refine current CAR T therapy protocols
Suman Mitra (Lille, France)

11:20 – Coffee break

CAR T Day lectures I – The next challenges

Chairs: Bruno Quesnel (Lille), Nicolaus Kröger (Humbourg, Germany)

- 11:40- Hematological Malignancies
Carl June (U Penn, Philadelphia, USA)
- 12:25- Solid tumors
George Coukos (Ludwig Institute for Cancer Research, Lausanne)

13:10 – Lunch

Session 2: Patient Management: recommendations of the EBMT & JACIE

Chairs: Christian Chabannon (Marseille, France), Riccardo Saccardi (Italy)

- 14:00- Patient eligibility and short-term complications
Patrick Hayden (Dublin, Ireland)
- 14:20- The role of the cell therapy unit
Halvard Bönig (Frankfurt, Germany)
- 14:40- Medium- and long-term complications
Ibrahim Yakoub-Agha, (Lille, France)
- 15:00- Immune effector cells and JACIE accreditation
John A. Snowden (Sheffield, UK)

15:30 – Coffee break

Session 3: Clinical data

Chairs : Franck Morschhauser (Lille, France), Catherine Thieblemont (Paris, France)

- 15:45- The Natural Basis of Synthetically Augmented CAR T-Cell Therapy
Jan Joseph Melenhorst (U Penn, Philadelphia, USA)
- 16:15- CAR T cells as a bridge to allo-HCT
Stephan Mielke (Karolinska University Hospital, Stockholm, Sweden)
- 16:45- How to improve CAR T efficacy in CLL
Alexandre V. Hirayama, (FHCR, Seattle, USA)
- 17:10- Real-life CAR T-cell therapy: The Lille University Hospital experience
David Beauvais (Lille, France)
- 17:40- BCMA CAR T-cell therapy for multiple myeloma: A meta-analysis
Sébastien Anguille (Antwerp University Hospital, Belgium)
- 18:00 – Conclusion: *I. Yakoub-Agha*



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Thursday January 16th, 2020

08:30 - Welcome and registration

Session 4: Clinical data

Chairs: Thierry Facon (Lille, France) ; André Baruchel (Paris, France)

- 09:00- **How to overcome tumor escape after CAR T therapy in ALL**
Carl June (U Penn, Philadelphia, USA)
- 09:30- **Loss of B cell aplasia/loss of CART cells**
André Baruchel (Paris, France)
- 09:50- **Bi and tri-specific monoclonal antibodies in multiple myeloma**
Salomon Manier (Lille, France)
- 10:10- **How to better target plasma cells**
Michael O'Dwyer (Galway, Ireland)
- 10:40- **Chinese experience**
He Huang (Hangzhou, China)

11:10 – Coffee break

11:25 – Group photo

CART Day lectures II - Microbiome

Chairs: Jacques-Olivier Bay (Clermont-Ferrand, France) ; Mohamad Mohty (Paris, France)

- 11:30- **Impact of intestinal microbiome on CAR T patient outcomes**
Marcel van den Brink (MSKCC, New York, USA)

12:20 – Lunch

Session 5: Manufacturing and monitoring of CAR T cells

Chairs: Olivier Boyer (Rouen, France) ; Jérôme Larghero (Paris, France)

- 13:20- **Implementing CAR T cells in an academic setting: French guidelines from the SFGM-TC**
Marina Deschamps (EFS, Besançon, France)
- 13:50- **Implementing CAR T cells in a European academic setting**
Alvaro Urbano-Ispizua (Barcelona, Spain)
- 14:20- **New technologies for CAR T cells production: the sleeping beauty paradigm**
Michael Hudecek (Wurzburg, Germany)

14:50 – Coffee break

Session 6: Challenges and strategies

Chairs: Christian Chabannon (Marseille, France) ; Marie-Thérèse Rubio (Nancy, France)

- 15:10- **Balancing effector functions and survival - towards a molecular understanding of lymphoid maintenance**
Rahul Roychowdhuri (Cambridge, UK)
- 15:40- **Implication of artificial intelligence in cellular therapy approaches**
Layth Sliman (EFREI-Paris, France)
- 16:10- **Clinical pharmacy and artificial intelligence**
Nicolas Simon (Lille, France)
- 16:30- **targeting solid tumors with TEGs**
Zsolt Sebestyén (UMC Utrecht, Netherland)

17:00 – Conclusion and end of the meeting