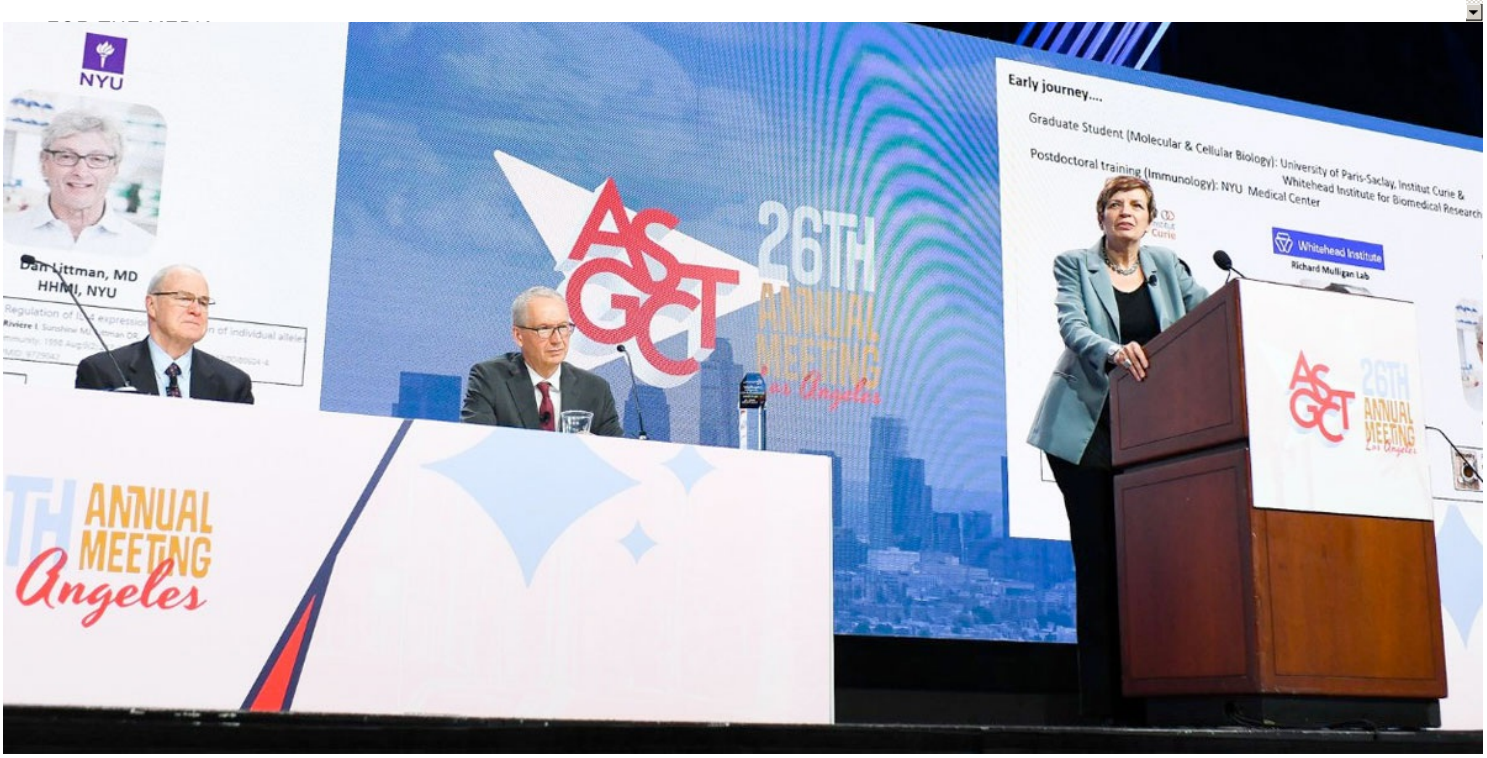


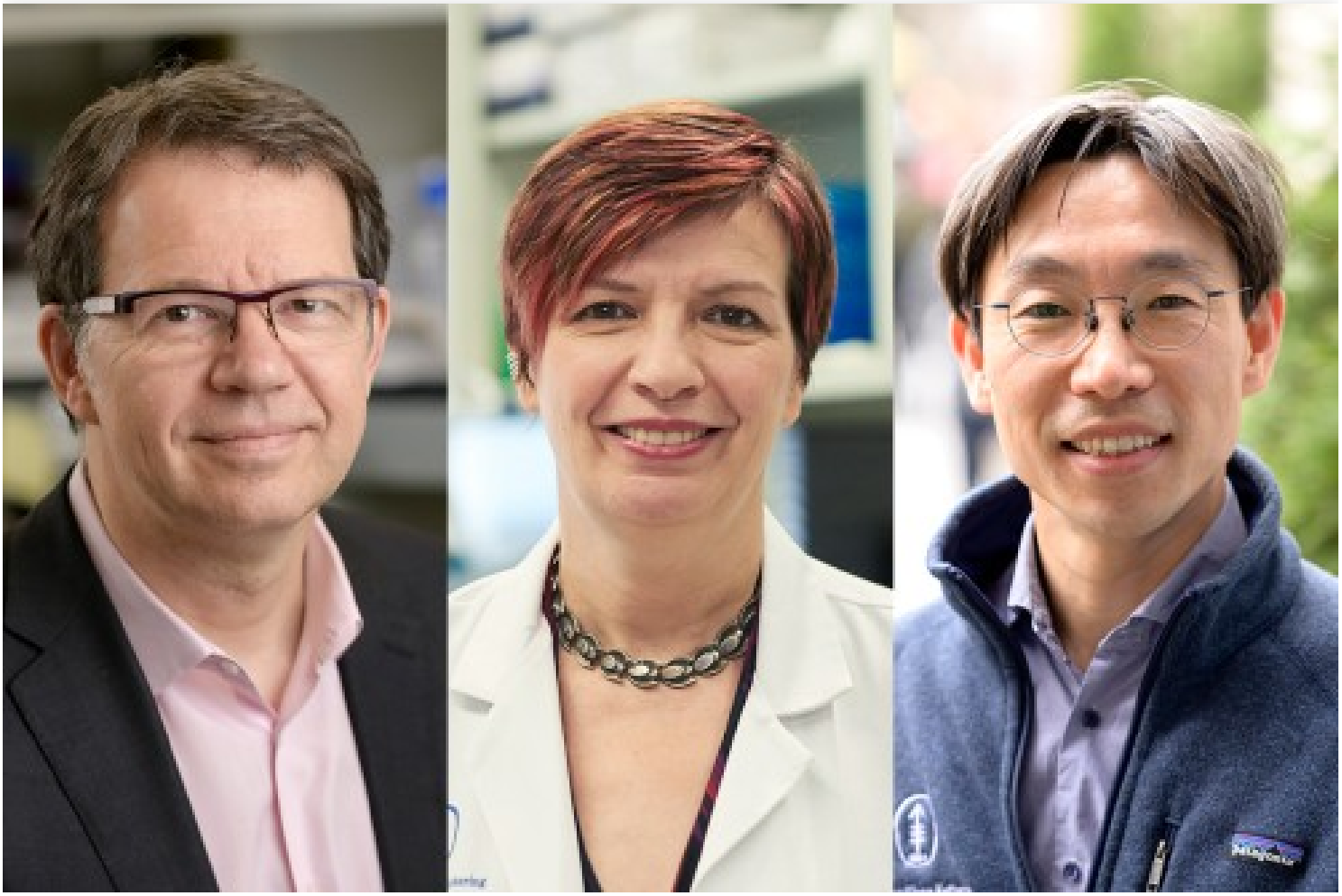
Dr. Isabelle Rivière received the prestigious Jerry Mendell Award for Translational Science at the at the XXVIth Annual American Society of Gene & Cell Therapy (ASGCT) Meeting (Los Angeles, May 2023)

Mission and Scope

Cells are powerful therapeutic agents. Whether engineered or in their natural state, cells will be used more and more to treat a range of pathologies. An expanding array of cell types is under investigation for the treatment of cancer, genetic disorders, autoimmunity, infectious diseases, and degenerative disorders The Center for Cell Engineering (CCE) was established to foster cutting-edge research on emerging cellular therapies.

The CCE brings together researchers who investigate immune cell therapies, bone marrow and cord blood transplantation, and stem cell-based therapies, including a focus on the transfer, regulation, and repair of genes in human cells.

This unique physician-scientist partnership involves researchers from Memorial Hospital and the Sloan Kettering Institute who strive to devise and implement innovative cell therapies for cancer and other pathologies.



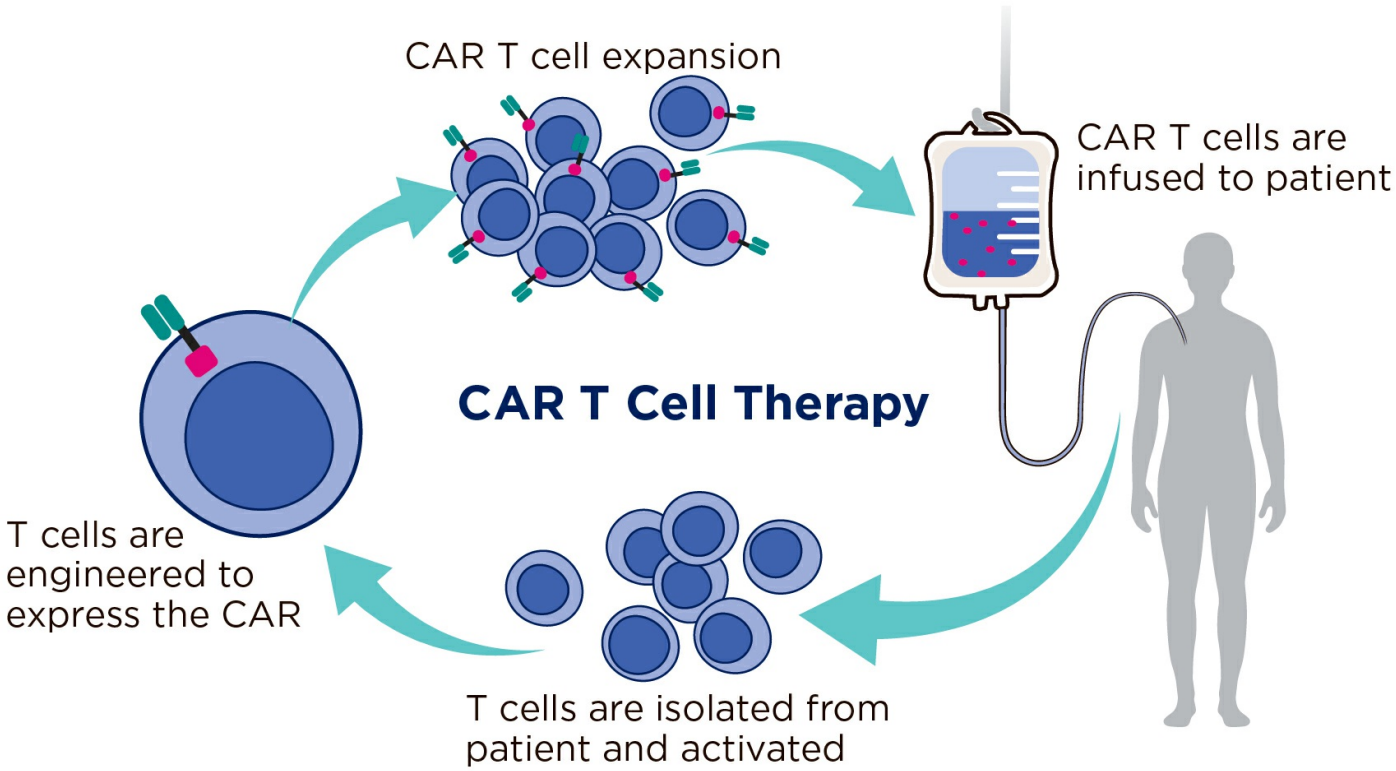
Testing CRISPR-Edited CAR T Cell Therapy in Lymphoma Clinical Trial

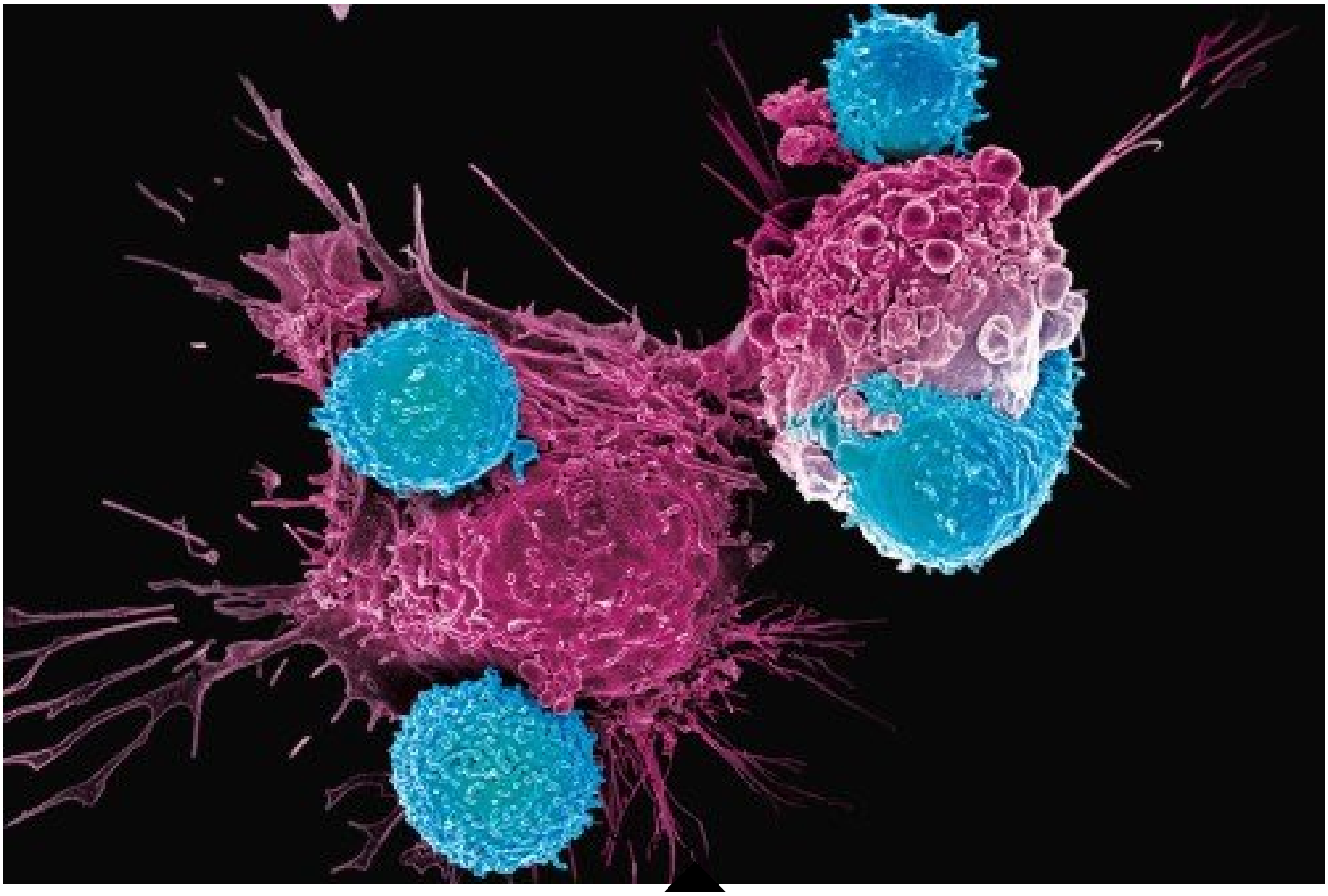
A groundbreaking clinical trial is testing CAR T cells created using CRISPR gene-editing technology.

Learn more →

Our mission is to:

- Investigate the therapeutic potential of human cell engineering, including the induction, isolation, expansion, differentiation, genetic modification, transplantation, and functional monitoring of therapeutic cells
- Strengthen the continuum among the biological, translational, manufacturing, and clinical dimensions of cell engineering and cell therapy
- Implement safe and potent immunotherapies and stem cell therapies for an array of hematological malignancies, solid tumors, and nonmalignant disorders


CAR T cell expansion
CAR T cells are infused to patient
CAR T Cell Therapy
T cells are engineered to express the CAR
T cells are isolated from patient and activated



CAR T Cells: Timeline of Progress

Discover how CAR T science developed and what MSK investigators contributed to this important field.

Learn more

NEXT

Projects