



CAR T Cell Therapy in Cancer

Future Directions

Stephen J. Forman, MD

Director

T Cell Therapeutics Research Laboratory

Director

Hematologic Malignancies and

Stem Cell Transplant Institute

City of Hope Comprehensive Cancer Center

Immune Therapies for Cancer

- DLI
- Monoclonal antibodies (Rituxan, Herceptin, Erbitux)
- Checkpoint inhibitors
- Bi-specific (BiTE CD19)
- CAR T Cells
- TCR Transduced T cells (HLA restricted)
- NK Cells
- Immunoconjugates
- Modifiers of tumor microenvironment

- Where will CAR T cells and other immune based therapies fit into the care of people with cancer.
- Surgery, radiation, chemotherapy, targeted therapy, immunotherapy.
- Off the shelf? NK cells?
- Combinatorial therapy.
- Elimination of chemotherapy? BiTES+CAR T cells for ALL
- Elimination of auto transplant for lymphoma or combining?
- Upfront treatment of myeloma? GBM?