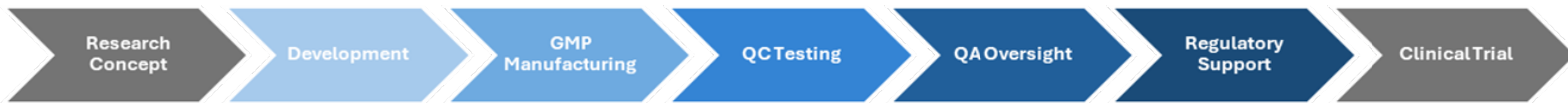


# Cell and Gene Therapy Development & GMP Manufacturing Solutions for the CIRM Alpha Clinics Network

The **City of Hope Center for Bio Innovation and Manufacturing** leverages more than 20 years of experience in GMP manufacturing to *accelerate the translation of cell and gene therapies* from research concepts to Phase 1/2 clinical trials. Our facilities support both internal programs and external collaborations with academic institutions and biotechnology companies. We offer a combination of established platform processes and bespoke manufacturing development to advance novel therapeutics.



## Manufacturing Capabilities

### Viral vector and oncolytic vaccine manufacturing

- Lentivirus: Oncolytic poxvirus
- Retrovirus: Modified Vaccinia Ankara (MVA)
- Adenovirus: Herpes Simplex Virus (HSV)

### GMP manufacturing of stem cell therapies for early phase clinical trials

iPSC-derived chondrocytes; iPSC-derived cardiomyocytes; iPSC-derived, fetal-derived, and immortalized neural stem cells (NSCs); Human Embryonic Stem Cell-Derived Retina pigmented epithelium; Mesenchymal Stem Cells containing oncolytic virus

### Cellular immunotherapies

CAR T; CAR-NK; TIL

## Quality and Regulatory Support

- Development
- Manufacturing
- Quality control
- Quality assurance
- Regulatory

Our dedicated teams support projects requiring bespoke processes and analytics, while also developing platform technologies to accelerate development.

City of Hope has a strong track record in IND submissions.