

## City of Hope Laboratory for Cellular Medicine for the CIRM Alpha Clinics Network

As part of City of Hope's Center for Gene Therapy, the **Laboratory for Cellular Medicine (LCM)** is an academic translational laboratory dedicated to the design, pre-clinical assessment and early clinical development of novel cell and gene therapies. A key focus is the development and qualification of integrated, closed-system processes for clinical-scale drug product manufacturing, including standardized analytical methods. Our goal is to enhance efficiency, increase automation, and reduce production costs.

### LCM expertise include:

- Development and qualification of automated, closed-system manufacturing processes at clinical scale, with particular emphasis on HSPC gene therapies.
- Optimization of gene engineering and design of large-scale manufacturing processes for IND-enabling qualification.
- Evaluation and integration of emerging technologies for cell processing, manufacturing, and analytics into workflows and drug product characterization.
- Design, testing, and qualification of project-specific analytical tools, including droplet-digital PCR (ddPCR) for vector copy number and gene editing efficiency, single-cell ddPCR, stemness multiparametric flow assays, hematopoietic functional tests, and potency assays.

To discuss how we can provide services for your CIRM Alpha Clinic Network trial,  
please contact Angelo Cardoso at [acardoso@coh.org](mailto:acardoso@coh.org)

[City of Hope Center for Gene Therapy](#)