



# ISCT-ACTRIS 2-DAY GMP LABORATORY BOOTCAMP: HANDS-ON TRAINING IN CELL THERAPY BIOMANUFACTURING

Monday, August 31 – Tuesday, September 1, 2026  
Advanced Cell Therapy and Research Institute, Singapore

## COURSE OVERVIEW

Join the inaugural ISCT–ACTRIS 2-Day GMP laboratory training at Advanced Cell Therapy and Research Institute, Singapore (ACTRIS) for an immersive, expert-guided hands-on laboratory training on CAR-T point-of-care manufacturing to enable patients' access.

Gain 1:1 coaching and practical lab training in cell therapy manufacturing process from start to finish. Master batch record documentation, protocol-driven operations, and best practices, and walk away with the skills to apply GMP principles directly in clinical manufacturing.

## DELIVERY METHOD

-  In-person interactive course
-  2-day training  
Monday, August 31 – Tuesday, September 1, 2026
-  Advanced Cell Therapy and Research Institute, Singapore (ACTRIS)  
30 Hospital Boulevard, #19-02  
Singapore 168583

[www.isctglobal.education](http://www.isctglobal.education)

## KEY LEARNING TOPICS INCLUDE:

- Gain theoretical and hands-on practice with cell manufacturing workflows
- Perform hands-on cell culture initiation, expansion, product characterization and safety testing in GMP-compliant lab.
- Gain knowledge in completing GMP-compliant batch records.
- Earn an ISCT–ACTRIS Certificate of Completion.



ISCT is an ASCP Continuing Medical Laboratory Education (CMLÉ)-approved provider.  
This course consists of 18 CMLÉ credits.



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## DAY 1

08:30 – 08:40

### Check-In, Registration and Coffee

8:40-09:10

#### Safety Orientation: Understanding GMP Infrastructure, Cell MFG Operations

- Apply laboratory safety, PPE, and ergonomics for working in GMP labs.
- Apply GMP protocols when handling and reporting spills and injuries.
- Apply proper aseptic techniques when handling biohazard materials in the lab.
- Operate essential laboratory equipment (pipettes, biological safety cabinets, centrifuge)

09:10 – 09:30

### Welcome and Introduction

09:30 – 10:30

#### Lecture 1

#### Introduction to Good Manufacturing Practices (GMP) and Good Documentation Practices (GDP) for Cell Therapy Manufacturing

- Explain core principles and best practices in cell therapy manufacturing.
- Develop a basic understanding of GLP & GMP standards.
- Recognize the impact of non-compliance and identify strategies to mitigate risks.

10:30 – 10:45

### BREAK

10:45 – 12:00

#### Lab Training

#### Aseptic Media Preparation for T-Cell Culture Initiation and Expansion in GMP Settings (Part 1)

- Demonstrate proper aseptic techniques for preparing materials and reagents needed for T-cell thawing, counting, and culture initiation.
- Perform accurate cell counts and cell viability to support decision-making during culture set-up.

12:00 – 13:00

### Sponsor Lunch

13:00 – 16:00

#### Lab Training

#### Aseptic Media Preparation for T-Cell Culture Initiation and Expansion in GMP Settings (Part 2)

- Initiate and activate T-cell cultures using cell manufacturing equipment.
- Apply best practices to thaw cryopreserved T cells for culture initiation.

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**16:00 – 16:15**      **BREAK**

**Lab Demo**

**Flow Cytometry Set Up and Analysis**

**16:15 – 17:30**

- Explain the process for setting up a robust flow cytometry antibody panel for evaluating cell product composition and viability.
- Outline the best practices for gating strategies and data interpretation.

**17:30 – 18:30**

**Data Management and Reporting**

Wrap up

**19:00 – 20:00**

**Networking Reception (Sponsor)**

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## DAY 2

### Lecture

#### Cell Product Handling and Processing Workflows: Considerations and Best Fit

09:00 – 10:00

- Summarize key facility and equipment requirements for full-scale GMP operations and cell product manufacturing.
- Recognize and explain key considerations when selecting equipment for cell bioprocessing and manufacturing methods.
- Understand the framework and parameters used to assess equipment suitability within a workflow.
- Describe critical requirements and fail-safe mechanisms for equipment in GMP operations

### Lab Training

#### Cell Product Manufacturing Workflow

10:00 – 12:30

- Apply GMP laboratory safety and operational best practices during cell manufacturing equipment setup and operations
- Analyze cell culture systems to select appropriate platforms for small- and large-scale cell manufacturing applications.
- Evaluate post-thaw cell quality and perform cell culture observation.

12:30 – 13:30

#### Sponsor Lunch

### Lab Training

#### Aseptic Qualification

13:30 – 15:30

- Prepare and use kit materials required for cleanroom operations.
- Perform aseptic qualifications in GMP-compliant cleanroom environment
- Demonstrate hands-on aseptic techniques in a GMP-compliant environment.
- Identify required manufacturing and QC documentations and compliance requirements.
- Apply best practices for safe and compliant operations in GMP cleanroom setting.
- Perform product safety testing, including sterility, mycoplasma and endotoxin testing

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15:30 – 16:00 BREAK

16:00 – 17:00 **Lab Training**  
**Cell Product Characterization**

- Prepare samples for flow cytometry analysis, including proper staining, compensation, and reporting.

17:00 – 18:00 **Lab Training**  
**Cell Product Harvest and Cryopreservation**

- Perform final product harvest for downstream assays.
- Carry out cryopreservation procedures to preserve cell products for storage or transport.

18:00 – 18:30 **Data Management and Reporting**

**WRAP UP**

## Planning Committee:



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