ISCT
ACADEMY OF TRAINING & DEVELOPMENT

CLINICAL CGT IMMUNE MONITORING AND IMMUNOBIOLOGY WORKSHOP

Virtual, November 2026

COURSE OVERVIEW

As cell and gene therapies (CGT) continue to evolve, understanding the immune response to these therapies is increasingly important for evaluating safety, efficacy, durability, and long-term patient outcomes.

This interactive virtual course brings together renowned immunologists and CGT experts to explore the evolving science of immune responses, biomarkers, assays, and immune monitoring across the CGT landscape. Participants will gain practical insights into how emerging technologies and analytical approaches can be applied to better understand patients, assess treatment response, and inform clinical and product development strategies.

WHO IT IS DESIGNED FOR

- Clinical and translational researchers working on CGT programs
- Biomarker and assay development scientists
- Bioanalytical and analytical scientists
- Regulatory and CMC professionals seeking a better understanding of immune-related considerations
- Physicians and healthcare professionals involved in CGT clinical trials or patient care
- Pharmacovigilance and safety professionals evaluating immune-related risks and outcomes
- Research, laboratory, and clinical operations professionals involved in immune assessment and monitoring
- Industry professionals and academic researchers seeking to understand emerging approaches, technologies, and best practices in CGT immune science

DELIVERY METHOD

November 12 | 3.5 hours
05:00 Eastern Time | 11:00 Central European Time | 17:00 Singapore Time

- Session 1: Why Is Immune Monitoring Important
- Session 2: Process and Considerations for Patient Immune Monitoring

November 25 | 3.5 hours
05:00 Eastern Time | 11:00 Central European Time | 17:00 Singapore Time

- Session 3: How to Influence Immune Milieu / Immune Reconstitution?
- Session 4: Cutting-Edge Technologies for Patient Immune Monitoring

ASCP

*ISCT is an ASCP Continuing Medical Laboratory Education (CMLE)- approved provider. Course participants are eligible for **8 CMLE credits.***

Scan this QR code to learn more and register

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Session 1 & 2: November 12

SESSION 1: WHY IS IMMUNE MONITORING IMPORTANT

Chairs: Jaap Jan Boelens, MD, PhD, *ISCT Chief Medical Officer, Pediatric Oncologist, Transplantation and Cellular Therapies, Memorial Sloan Kettering Cancer Centre, New York, United States,* ***and*** **Stefan Nierkens, PhD,** *Associate Professor, Tumor Immunology, Medical Immunologist, UMC Utrecht and Princess Máxima Center for Pediatric Oncology, Utrecht, the Netherlands*

05:00-05:10 EASTERN TIME	**WELCOME AND INTRODUCTION**
05:10:05:35	**IMMUNE MILLIEU AND EFFICACY OF CAR-T CELLS** Keynote Speaker: **Sandeep Raj, MD** Bone Marrow Transplant Specialist & Cellular Therapist Memorial Sloan Kettering, United States
05:35-06:00	**INTRODUCTION ON THE IMPORTANCE OF IMMUNE RECONSTITUTION** Speaker: **Jaap Jan Boelens, MD, PhD** ISCT Chief Medical Officer, Pediatric Oncologist, Transplantation and Cellular Therapies Memorial Sloan Kettering Cancer Centre New York, United States
06:00-06:15	**INTERACTIVE PANEL DISCUSSION**

SESSION 2: PROCESS AND CONSIDERATIONS FOR PATIENT IMMUNE MONITORING

06:15-06:40 EASTERN TIME	**HOW TO BUILD AND RUN AN EFFECTIVE IMMUNE MONITORING PROGRAM** Speaker: **Stefan Nierkens, PhD** Associate Professor, Tumor Immunology, Medical Immunologist, UMC Utrecht and Princess Máxima Center for Pediatric Oncology Utrecht, the Netherlands
06:40-06:55	**IMMUNE RECONSTITUTION AND PHARMACOKINETICS/PHARMACODYNAMICS AND ATG** Speaker: **Rachel Mariam Renji, MSc** Senior Reserach Fellow Department of Haematology at the Christian Medical College (CMC) India
06:55-07:10	**STUDY OF IN-VIVO VS. EX-VIVO T-CELL DEPLETION STRATEGIES IN HAPLOIDENTICAL TRANSPLANTATION** Speaker: **Sunil Bhat, (FHPO), MD - Pediatrics, MBBS** Head of Pediatric Hematology, Oncology, Bone Marrow Transplant and Clinical Immunology Mazumdar Shaw Medical Center Bangalore

07:10-07:25	**IMMUNE RECONSTITUTION AFTER ALLOGENEIC HCT: CLINICAL LESSONS FROM THE PtCy PLATFORM** Speaker: **Suradej Hongeng, MD** Professor, Pediatric Haematology & Oncology Samitivej Sukhumvit Hospital Thailand
07:25-07:40	**IMPACT OF LYMPHODEPLETION ON ANTIGEN PRESENTATION** Speaker: **Shira Sagie, MD, PhD, MPH** Postdoctoral Fellow Weizmann Institute of Science Isarel
07:40-07:55	**INTERACTIVE PANEL DISCUSSION**

Session 3 & 4: November 25

SESSION 3: HOW TO INFLUENCE IMMUNE MILIEU/IMMUNE RECONSTITUTION

Chairs: Jaap Jan Boelens, MD, PhD, ISCT Chief Medical Officer, Pediatric Oncologist, Transplantation and Cellular Therapies, Memorial Sloan Kettering Cancer Centre, New York, United States, and Stefan Nierkens, PhD, Associate Professor, Tumor Immunology, Medical Immunologist, UMC Utrecht and Princess Máxima Center for Pediatric Oncology, Utrecht, the Netherlands

05:00-05:15	**SPATIAL CONTEXTURE OF THE TUMOR MICROENVIRONMENT: IMPLICATIONS FOR IMMUNE MONITORING AND THERAPY** Speaker: **Mai Chan Lau, PhD** Assistant PI Bioinformatics Institute (BII) Computational Immunology Platform Head Singapore Immunology Network (SIgN) Singapore
05:15-05:30	**CAR-T CELL THERAPY IN ONCOLOGY, AUTOIMMUNITY AND CHRONIC INFLAMMATORY DISORDERS** Speaker: **Simon Völkl, PhD, MHBA** Principal Investigator, Department of Medicine 5 - Hematology & Internal Oncology University Hospital Erlangen Germany

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05:30-05:45	**PHARMACOKINETICS AND PHARMACODYNAMICS IN IMMUNE EFFECTOR CELL THERAPIES - CAR-T** Speaker: **Jaap Jan Boelens, MD, PhD** ISCT Chief Medical Officer, Pediatric Oncologist, Transplantation and Cellular Therapies Memorial Sloan Kettering Cancer Centre New York United States
05:45-06:00	**INTERACTIVE PANEL DISCUSSION**
06:00-06:15	**CASE STUDY: PHARMACOKINETICS & PHARMACODYNAMICS IN CLINICAL TRIALS** Speaker: **Michaela Su-Fern Seng, MBBS, MRCPCH (UK), FAMS, FRACP** Senior Consultant Haematology/Oncology Service KK Women's and Children's Hospital Singapore

SESSION 4: CUTTING-EDGE TECHNOLOGIES FOR PATIENT IMMUNE MONITORING

06:15-06:30	**TRANSLATING MULTI-OMICS IMMUNE PROFILING INTO CLINICAL IMMUNE MONITORING** **Speaker: Tony Shuen,** Senior Research Fellow National Cancer Center Singapore
06:30-06:45	**INTERACTIVE PANEL DISCUSSION**
06:45-06:50	**Wrap Up**

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PLANNING COMMITTEE:



Jaap Jan Boelens, MD, PhD
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Elani Wiest, PhD
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