Agenda

Thursday, May 9, 2019

2:00 pm  Tour Center for Advanced Cellular Therapies  
Perelman Center for Advanced Medicine  
Tour registration is closed, capacity has been reached.

3:30 pm  Check in  
Irvine Auditorium

4:30 pm  Welcome  
Amy Gutmann // University of Pennsylvania

4:35 pm  KEYNOTE ADDRESS:  
Cellular Immunotherapy of Cancer Targeting Unique Cancer Antigens  
Steven Rosenberg, MD, PhD // National Cancer Institute

5:35 pm  CAR T Cells: A 20-year overnight sensation  
Carl H June, MD // Penn Medicine

6:05 pm  Cocktail Reception  
Perelman Quadrangle

7:05 pm  Dinner Reception  
The University of Pennsylvania Museum of Archaeology and Anthropology

Friday, May 10, 2019

7:30 am  Check-in and Breakfast

8:30 am  Welcome  
J Larry Jameson, MD, PhD // University of Pennsylvania  
Madeline Bell // Children’s Hospital of Philadelphia
GENERAL SESSION 1: Current Application of CAR-T Cells - Matching to the Patient Journey

Moderator: David L Porter, MD // Penn Medicine

8:45 am  Perspectives on Driving CARs Into Uncharted Territory
Carl H June, MD // Penn Medicine

8:50 am  CD19 CAR T Cells: The first big success
David Maloney, MD, PhD // Fred Hutchinson Cancer Research Center/Seattle Cancer Care Alliance // University of Washington

9:05 am  Anti-BCMA CAR T Cells for Multiple Myeloma
James N Kochenderfer, MD // National Cancer Institute

9:20 am  Immunotherapy for Brain Tumors-Using CAR T-Cell Platform for Glioblastoma
Donald O’Rourke, MD // Penn Medicine

9:35 am  Discussion

GENERAL SESSION 2: Improving the CAR-T Landscape: Toxicity management and increasing responses

Moderator: Stephan A Grupp, MD, PhD // Children’s Hospital of Philadelphia

9:45 am  CAR T Cell Toxicity Management in Acute Leukemia
Shannon L Maude, MD, PhD // Children’s Hospital of Philadelphia

10:00 am  CARTOX and Toxicity Management in Lymphoma
Sattva S Neelapu, MD // The University of Texas MD Anderson Cancer Center

10:15 am  Next Generation CAR T Cell Therapy for Cancer
Renier J Brentjens, MD, PhD // Memorial Sloan Kettering Cancer Center

10:30 am  Discussion

GENERAL SESSION 3: Overcoming Resistance/Novel CAR Strategies

Moderator: Carl H June, MD // Penn Medicine

10:45 am  Proteomic Strategies for Identifying Resistance Mechanisms and Therapeutic Targets in Lymphoma
Megan S Lim, MD, PhD // Penn Medicine
11:00 am  Control of Cellular Immunotherapy
Travis S Young, PhD // California institute for Biomedical Research

11:15 am  T-cell Engineering for Cancer Applications-the University College London experience
Martin Pule, MB BCh, MRCP // University College London

11:30 am  Discussion

GENERAL SESSION 4: Gene Delivery and Editing for Better CARs

Moderator: Michael C Milone, MD, PhD // Penn Medicine

12:00 pm  Gene Editing in Lymphocytes for Novel Immune Applications
David J Rawlings, MD // Seattle Children’s Research Institute/Seattle Children’s Hospital/ University of Washington

12:15 pm  Engineering Human T Cell Circuitry with CRISPR
Alexander Marson, MD, PhD // University of California, San Francisco

12:30 pm  Genetic Engineering Using ARCUS Nucleases for Production of Fit-for-Purpose CAR T Cells
Bruce McCreedy, PhD // Precision Bioscience

12:45 pm  Discussion

1:00 pm  Lunch

GENERAL SESSION 5: New Targets and Technologies Allogeneic and Treg CAR Ts

Moderator: Marco Ruella, MD // Penn Medicine

2:00 pm  The Battle Between Self and Non-Self: Treading the fine line with better T Cells
Carl H June, MD // Penn Medicine
2:15 pm  Expanding the Functionality of CAR T Cells Through Meditope Engineering  
Christine Brown, PhD // City of Hope

2:30 pm  Vaccine Boosting CAR T Cells Through the Chimeric Antigen Receptor  
Darrell J Irvine, PhD // Massachusetts Institute of Technology

2:45 pm  Discussion

GENERAL SESSION 6:  Allogeneic CAR-Ts and NKs: The future is now?

Moderator: Stephen J Schuster, MD // Penn Medicine

3:00 pm  The Application of Off-the-Shelf CAR NK Cells in Cancer  
Katy Rezvani, MD, PhD // The University of Texas MD Anderson Cancer Center

3:15 pm  Creating the Shift from Autologous to Allogeneic CAR T-cell Therapy  
David Chang MD, PhD // Allogene Therapeutics

3:30 pm  Non-Gene Edited Approaches to CAR T-cell Therapy  
David Gilham // Celyad

3:45 pm  Discussion

GENERAL SESSION 7: Globalization of CAR T Cell Therapies and the Ethics of Patient Access

4:00 pm  Moderator: Usman “Oz” Azam, MD // Tmunity Therapeutics  
Panel: Ezekiel J Emanuel, MD, PhD // University of Pennsylvania  
Noelle V Frey, MD // Penn Medicine  
Kristen Harrington-Smith // Novartis  
Toni Liu // Cellular Biomedicine Group  
Shannon L Maude, MD, PhD // Children’s Hospital of Philadelphia

4:45 pm  Discussion

5:00 pm  Adjourn
CONCURRENT SESSIONS 11:00 am – 4:00 pm

Concurrent Session: PEDS/BMT 1
Moderator- Timothy S Olson, MD, PhD

11:00 am  SCT for Bone Marrow Failure
Timothy S Olson, MD, PhD // Children’s Hospital of Philadelphia

11:15 am  SCT for Immunodeficiency
Nancy J Bunin, MD // Children’s Hospital of Philadelphia

11:30 am  GVHD Biomarkers
John E Levine, MD, MS // Icahn School of Medicine at Mount Sinai

11:45 am  Discussion

Concurrent Session: PEDS/BMT 2
Moderator- Amanda DiNorfia, MD, MSCE

12:00 pm  Gene Edited SCT for SS and Thal
Janet L Kwiatkowski, MD, MSCE // Children’s Hospital of Philadelphia

12:15 pm  Anti-Viral Cell Therapy
Michael Keller, MD // Children’s National Health System

12:30 pm  CAR T Cells in Special Populations
Amanda DiNofia, MD, MSCE // Children’s Hospital of Philadelphia

12:45 pm  Discussion

Concurrent Session: Logistics of Cell Collection and Chain of Custody
Moderator- Nicole Alyse Aqui, MD

2:00 pm  Nuts and Bolts of Apheresis
Nicole Alyse Aqui, MD // Penn Medicine
2:15 pm  Processing Apheresis Cell Production from Collection to Send Off
Yongping Wang, MD, PhD // Children’s Hospital of Philadelphia

2:30 pm  Apheresis Product Heterogeneity in Solid Tumor T Cell Therapies
Raymond Luke // Adaptimmune

2:45 pm  Discussion

Concurrent Session: Financial Implications for Health Systems
Moderator- Kevin B Mahoney, MBA

3:00 pm  TBA
Kevin B Mahoney, MBA // Penn Medicine

3:15 pm  The View from the Ground Floor: The cost of care for cellular therapy
Richard T Maziarz, MD // Oregon Health & Science University

3:30 pm  TBA
TBA

3:45 pm  Discussion

Concurrent Session: Cell Manufacturing and Analytics
Moderator- Bruce L Levine, PhD

11:00 am  “Be All That You Can Be” – Getting T Cells Into Shape and When to Make the Cut
Bruce L Levine, PhD // Penn Medicine

11:15 am  T Cell Fitness
David M Barrett, MD, PhD // Children’s Hospital of Philadelphia

11:30 am  Strategies and Methodologies for Selecting and Implementing New Technologies for Cell Therapy Processes
Greg Russotti // Celgene
11:45 am  Discussion

**Concurrent Session: Gene Therapy IND’s and Regulatory Considerations**

**Moderator-** Anne Chew, PhD // Penn Medicine

12:00 pm  Approval of CD19-Directed CAR T cells: FDA licensure of new cell-based gene therapy products with a challenging safety profile
Roger J Kurlander, MD // FDA

12:15 pm  CART IND Development in the Pharma Space
Christina Coughlin, MD, PhD // Tmunity

12:30 pm  Cellular Gene Therapies: Regulatory Challenges
Viera Muzithras // Celgene

12:45 pm  Discussion

**Concurrent Session: Unconventional CAR’s**

**Moderator -** Michael C Milone, MD, PhD

2:00 pm  CAAR’s, CAR Tregs, CAR Macs
Michael C Milone, MD, PhD // Penn Medicine

2:15 pm  New Targets and Technologies Allogeneic and Treg CAR-Ts
Megan Levings, PhD // BC Children’s Hospital Research Institute

2:30 pm  Chimeric Antigen Receptor Macrophages for Cancer Immunotherapy
Michael Klichinsky, PharmD, PhD

2:45 pm  Discussion
Concurrent Session: Nursing Care - Adults
Moderator - Patricia Mangan, MSN, CRNP

11:00 am  Chronic Graft Versus Host Disease: An Unmet Clinical Need
          Linda Perry, PA-C // Penn Medicine
12:00 pm  Patient Management from Identification Through Treatment
          Elizabeth Weber, RN, BSN // Penn Medicine

1:00 pm  Lunch

2:00 pm  Managing Side Effects of CAR T-cell Therapy
          Heather Difilippo, MSN, CRNP // Penn Medicine

3:00 pm  What's Next? Multiple Myeloma CAR T-cell Therapy, Auto Transplant and Future Therapies
          Patricia Mangan, MSN, CRNP // Penn Medicine

Concurrent Session: Nursing Care - Pediatric
Moderator - Laura Smith, MSN, CRNP // Children’s Hospital of Philadelphia

2:00 pm  Nursing Considerations and Management of Pediatric Patients Receiving CAR T-cell Therapy for ALL
          Diane Baniewicz, MSN, CRNP // Children’s Hospital of Philadelphia

2:30 pm  Future Directions of CAR T-cell Therapy for Pediatric ALL Patients
          Colleen Callahan, MSN, CRNP // Children’s Hospital of Philadelphia

3:00 pm-  Special Considerations for Pediatric Populations
3:45 pm  Moderator- Anne Wohlschlaeger, MSN, CRNP // Children’s Hospital of Philadelphia

3:00 pm  Minor Donor Collections and Issues that Arise: Assent vs consent
          Elizabeth A Worster, MSN, CRNP // Children’s Hospital of Philadelphia

3:20 pm  Ethical Issues in Pediatric BMT as Demonstrated by Two Unique Case Studies
          Kimberly L Venella, MSN, CRNP // Children’s Hospital of Philadelphia