**SUNDAY, JANUARY 24**
Arrival and Registration

**MONDAY, JANUARY 25**
Welcome and Keynote Address
David Baker, University of Washington, USA
*Rational Protein Design for Next-Generation Cellular Therapeutics*

The Current State of Cellular Therapies for Cancer: Lessons from the Clinic
David Edward Gilham, Celyad, Belgium
*Next-Generation CART Approaches Exploiting Natural Killer Receptor Targeting*

Marcela V. Maus, Harvard Medical School, USA
*Enhanced T Cell Therapeutics for the Treatment of Cancer*

Christine E. Brown, Beckman Research Institute, City of Hope, USA
*CAR T Cells for the Treatment of Brain Malignancies*

Isabelle Riviere, Memorial Sloan-Kettering Cancer Center, USA
*Manufacturing Next-Generation Cellular Therapies*

Short Talk(s) Chosen from Abstracts

Workshop: Cell Therapy Manufacturing and Regulations
Short Talks Chosen from Abstracts

**TUESDAY, JANUARY 26**

**Next-Generation Cellular Therapeutics for Cancer**
Yvonne Y. Chen, University of California, Los Angeles, USA
*Engineering Next-Generation T Cell Therapies*

Dario Campana, National University of Singapore, Singapore
*Universal CAR T Cells and NK Cell Therapies*

Kole T. Roybal, University of California, San Francisco, USA
*Control and Customization of Immune Cell Therapies for Cancer*

Short Talk(s) Chosen from Abstracts

**Engineering Materials for Cellular Therapeutics**
Darrell J. Irvine, Massachusetts Institute of Technology, USA
*Enhancing Immune Cell Therapeutics with Smart Nanomaterials*

**TUESDAY, JANUARY 27**

**Beyond Effector T Cell Therapeutic**
Saar I. Gill, University of Pennsylvania, USA
*Engineered Macrophage Therapeutics*

Dan S. Kaufman, University of California, San Diego, USA
*NK Cell Therapies for Cancer*

Tal Danino, Columbia University, USA
*Programming Bacteria as a Cancer Therapy*

Megan K. Levings, University of British Columbia, Canada
*Engineered Regulatory T Cell Therapies for Autoimmunity and Transplantation*

Short Talk(s) Chosen from Abstracts

**Immune Cell Biology: Implications for Cellular Immunotherapy**
Miriam Merad, Mount Sinai School of Medicine, USA
*Talk Title to be Announced*

Andrea Schietinger, Memorial Sloan Kettering Cancer Center, USA

Poster Session 3

**THURSDAY, JANUARY 28**

**Cell Therapy – Bringing Cutting-Edge Treatments to Patients**
Philippe N. Duchateau, Cellectis SA, France
*Universal Gene-Edited CAR T-Cell Immunotherapy: Empowering CAR T-Cells through Genetic Engineering*

Jane L. Grogan, Arsenal Biosciences, USA
*Development of Next-Generation T Cell Therapies*

Martin Pule, University College London, UK
*T Cell Therapies with Engineered Control Systems*

Barbra Sasu, Allogene Therapeutics, USA
*Allogeneic CAR T Therapy for the Treatment of Cancer*

Short Talk(s) Chosen from Abstracts

**Synthetic Biology Tools for Cellular Regulation**
Ahmad S. Khalil, Boston University, USA
*Synthetic Transcription Factors for Custom Gene Regulation in Immune Cells*

Tara L. Deans, University of Utah, USA
*Synthetic Biology Tools for the Development of Engineered Stem Cell Therapeutics*
Timothy K. Lu, Massachusetts Institute of Technology, USA

Synthetic Biology Tools to Stimulate Anti-Tumor Immunity

Short Talk(s) Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

FRIDAY, JANUARY 29

Departure