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 Therapies 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

New Approaches for Programming Cellular Therapeutics
Alex Marson, University of California, San Francisco, USA
Reprogramming Immune Cell Therapeutics with Non-Viral Gene Editing Approaches
Matthias Stephan, Fred Hutchinson Cancer Research Center, USA
Engineering Immune Cells with Targeted Nanomaterials
Aaron Ring, Yale School of Medicine, USA
Engineered Cytokines for Cancer Immunotherapy
Short Talk(s) Chosen from Abstracts

Poster Session 2

WEDNESDAY, 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

Imune 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
Regulation of T Cell Function in Tumors
Joseph C. Sun, Memorial Sloan Kettering Cancer Center, USA
NK Cells in Health and Disease
Short Talk(s) Chosen from Abstracts

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

* Session Chair † Invited but not yet accepted  Program current as of June 22, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
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**