PRE-MEETING WORKSHOP

COMING OF AGE: STEM CELL THERAPIES FROM BENCH TO CLINIC

MAY 15, 2022
SUNDAY, MAY 15, 2022
All times listed below ET

Planned by the Stem Cell Committee
Co-chairs: Tony Ho, MD
Graca Almeida-Porada, MD, PhD

Description
Curative stem cell therapies have been a dream for many researchers in the field. In the past 20–30 years, the convergence of several technologies finally made this a reality in the clinic. This included understanding stem cell populations, stem cell niches, ES, IPS technologies, and differentiation cocktails. The advent of editing technologies, such as CRISPR, further turbo-charged the field.

We are no longer confined to the design of nature and are now able to build synthetic biology on top of nature’s design and make synthetic and immune evasive stem cells. In this workshop, we would like to discuss the latest advances in basic stem cell science and also highlight the latest advances in stem cell therapeutics.
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Schedule
All times listed below ET

8:00–8:25 AM
Development of Dual HDR Edited EngTreg for T1D Therapy
David Rawlings, MD, University of Washington

8:25–8:50 AM
Immune Evasive Cells
Ron Evans, PhD, The Salk Institute

8:50–9:15 AM
Using RBC to Deliver mRNAs
Ionita Giran, MD, Beth Israel Deaconess Medical Center

9:15–9:40 AM
Bioengineered Enucleated Stem Cells for Therapeutic Delivery
Richard Klemke, PhD, UC San Diego

9:40–10:05 AM
CRISPR Edited Islet Cells
Ali Rezania, PhD, CRISPR Therapeutics, MA

10:05–10:30 AM
Liver Stem Cells
Lola Reid, PhD, UNC School of Medicine
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10:45–11:10 AM
MSCs for OI Clinical Trial in Europe
Cecilia Gotherstrom, PhD, Karolinska Institutet

11:10–11:35 AM
NK Cells
Yu-Waye Chu, MD, Fate Therapeutics

11:35 AM—12:00 PM
Panel Discussion