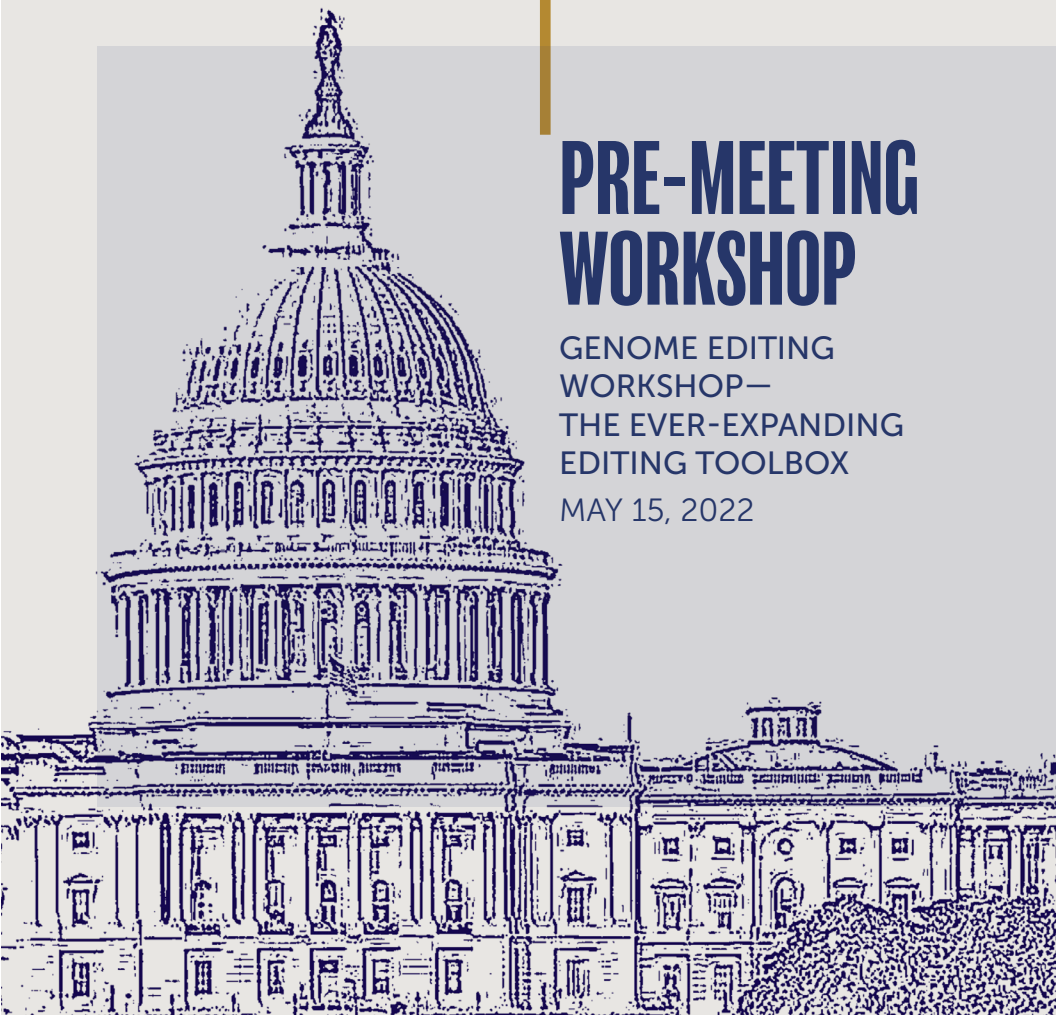
American Society of Gene + Cell Therapy

ASGCT 25TH ANNUAL MEETING MAY 16–19·2022 WASHINGTON DC

PRE-MEETING WORKSHOP

GENOME EDITING WORKSHOP— THE EVER-EXPANDING EDITING TOOLBOX

MAY 15, 2022



EDITAS IS TRANSFORMING MEDICINE

Tristan
Living with sickle cell disease

We are harnessing the power and potential of gene editing to develop medicines for people living with serious diseases around the world.
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GENOME EDITING WORKSHOP— THE EVER-EXPANDING EDITING TOOLBOX

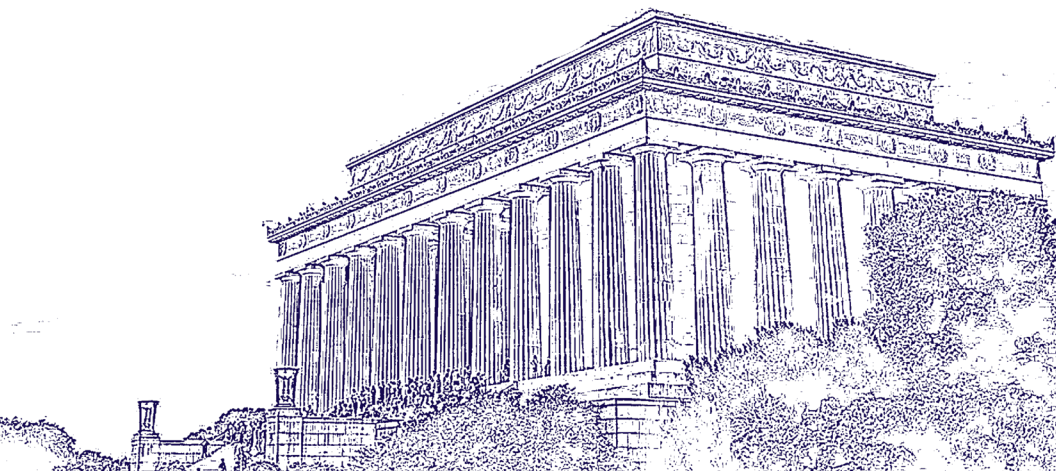
SUNDAY, MAY 15, 2022

All times listed below ET

Co-chairs: Paula Rio, PhD
Thomas Cradick, PhD

Description

Gene editing has become an essential technology in our day-to-day research and it is a promising approach for the application in the clinics. In this workshop we will focus on the most novel gene editing strategies designed and the development of new editing tools by protein engineering. A special attention will be given to HDR improvement by optimized donor templates. Altogether, this workshop will contribute to learning about the ever-expanding gene editing toolbox.



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About Our
Approach

GENETIC MEDICINES
FOR GENETIC DISEASES

GENOME EDITING WORKSHOP— THE EVER-EXPANDING EDITING TOOLBOX

Schedule

All times listed below ET

8:00–8:25 AM

Enhancing HDR Efficiency in Human Pluripotent Stem Cells
Sridhar Selvaraj, PhD, Stanford University

8:25–8:50 AM

Cas9-HRs: Manipulating DSB Repair Pathway Choice to Increase HDR
Chris Hackley, PhD, CRISP-HR Therapeutics

8:50–9:15 AM

Improved Methods for CRISPR HDR Research Using Alt-R™ Modified Donors and Alt-R HDR Enhancer V2
Mollie Schubert, MS, Integrated DNA Technologies

9:15–9:40 AM

***In Vivo* Epigenome Editing**
Lucie Guo, PhD, Stanford University

9:40–10:05 AM

Growing the CRISPR Toolbox for Genetic Medicines
David Scott, PhD, Arbor Biotechnologies

GENOME EDITING WORKSHOP— THE EVER-EXPANDING EDITING TOOLBOX

10:05–10:30 AM

Identifying and Engineering Orthogonal and Synthetic RNA-Guided Nucleases (sRGN)
Andre Cohnen, PhD, Bayer AG

10:30–10:45 AM

Break

10:45–11:10 AM

Prime Editing
Gerald Schwank, PhD, University of Zurich

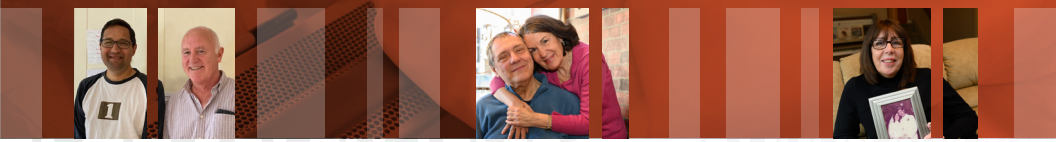
11:10–11:35 AM

Targeting Double-strand Break Indel Byproducts with Secondary Guide RNAs Improves Cas9 HDR-mediated Genome Editing Efficiencies
Zsolt Bodai, PhD, UC San Diego

11:35 AM–12:00 PM

Programmable Transposon-encoded RNA-guided Nucleases for Genome Editing
Soumya Kannan, Massachusetts Institute of Technology

change life stories with genome editing therapies



Our mission

Transforming lives of people with severe diseases by developing potentially curative genome editing treatments.

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