

Tuesday, April 28, 2026 7:30 am – 5:00 pm PDT

FOCUS: Newborn Screening

7:30 am Registration / Exhibit Hall / Breakfast

8:00 am Welcome Bruce Windoffer, Emcee

8:10 am Newborn Genomic Screening in England
Initial results of the Generation Study David Bick, MD, Genomics England (Virtual)

8:40 am From the Pilot Project to the Public Health
Implementation: gNBS as an Opportunity for
All Newborns. The Experience of Apulia
Region, Italy Mattia Gentile, MD, Director UOC Genetica Medica

9:10 am Keynote Speaker Stephen Kingsmore, MD, DSc, Rady Children's
Institute for Genomic Medicine (RCIGM)

9:55 am Break

10:25 am The Next Frontier: Genome-Informed Care at
Mayo Clinic Whitney Thompson, MD, Mayo Clinic
(Non-CME Credit) Monica Giovanni, MS, CGC, Inflection Medicine

10:50 am Break / Speed Networking

11:20 am BeginNGS Million Genome Project: Key
Lessons for Implementing Genomic Newborn
Screening at Scale Pagé Goddard, PhD, RCIGM
Meredith Wright, PhD, RCIGM

11:50 am BeginNGS: Implementing gNBS in Diverse
Healthcare Systems *Panelist:* Milen Velinov, MD, PhD, Rutgers RWJMS;
Erica Wright, MS, CGC, Univ. of Colorado
Moderator: Rebecca Reimers, MD/MPH, FACOG,
FACMG, RCIGM

12:30 pm Lunch & Networking

FOCUS: Leveraging AI in Precision Medicine Innovation

1:30 pm Project Bridge Matthew Bainbridge, PhD, RCIGM

2:00 pm If You Build It – They Will Come: Discovery
of Bachmann-Bupp Syndrome and Rapid
Repurposed Treatment Caleb Bupp, MD, Corewell Health

2:30 pm Family Panel – Bridge *Moderator:* Jerica Lenberg, MS, LCGC, RCIGM

3:15 pm Break

3:30 pm Interpreting Genomic Variants in Newborn
Screening: Challenges and AI-Driven
Advances Robert Nussbaum, MD, The University of California,
San Francisco

4:00 pm AI Panel *Panelist:* Danny Oh, MS, RCIGM ; Louis
Ehwerhemuepha, PhD, Rady Children's Health OC
Moderator: Matthew Bainbridge, PhD, RCIGM

4:40 pm Wrap Up of Day 1 Stephen Kingsmore, MD, DSc, President & CEO,
RCIGM

5:00 pm Reception / Networking

Wednesday, April 29, 2026 7:30 am – 5:00 pm PDT

FOCUS: Emerging Therapies in Pediatric Genomic Medicine

7:30 am Breakfast

7:50 am Welcome Bruce Windoffer, Emcee

8:00 am Modeling and Correcting Human Genetic Variants with Precision Genome Editing Method Alexis Komor, PhD, UC San Diego

8:30 am Building a Path Toward Genetic Therapies for Developmental and Epileptic Encephalopathies Mingshan Xue, PhD, Baylor College of Medicine

9:00 am Spinal Muscular Atrophy: Impact of Gene-Targeted Therapies and Genomic Testing Strategies Richard Finkel, MD, St. Jude Children's Research Hospital

9:30 am Beyond Baby KJ: Developing a CRISPR Gene Editing Medicine On-Demand in 10 Weeks for a Child with a Severe Inborn Error of Immunity Fyodor Urnov, PhD, UC Berkeley / IGI

10:00 am Break – Exhibit Hall Open

10:30 am Clinical Translation of Hematopoietic Stem Cell Gene Therapy for Genetic Disorders (Non-CME Credit) Stephanie Cherqui, PhD, UC San Diego

11:00 am Break

11:30 am Precision Medicine Clinic Kristen Wigby, MD, RCIGM
Jennifer Friedman, MD, UC San Diego

12:00 pm ASO Round Robin
Panelist: Olivia Kim-McManus, MD, UC San Diego, Rady Children's Health; Nicole Coufal, MD, PhD, UC San Diego
Moderator: Rebecca Reimers, MD/MPH, FACOG, FACMG, RCIGM

12:45 pm Lunch

FOCUS: Advancing Genomically-Informed Care

1:45 pm Congenital Disorders of Glycosylation (CDG): Discovery, Therapies and Coming Attractions Hudson Freeze, PhD, Sanford Burnham Prebys Medical Discovery Institute

2:15 pm New Discoveries Elucidate the Influence of Genes and Environment in Autism Jonathan Sebat, PhD, UC San Diego

2:45 pm The Promise, and Peril, of Predictive Genomics for Heritable Cardiovascular Disease Andrew Landstrom, MD, PhD, Children's Hospital of Philadelphia

3:15 pm Break – Exhibit Hall Open

3:30 pm Genome x Environment Analysis of Sudden Unexpected Infant Death Reveals Heterogeneous, Strong Cannabis and Genetic Disease Risks Erica Sanford Kobayashi, MD, RCIGM

4:00 pm Rare Disease Collaboration Uncovers Key Mechanisms in Neurodegeneration: GPX4 Adam Wahida, MD, PhD, Harvard T.H. Chan School of Health

4:30 pm Precision Medicine Program Family Panel
Panelist: Adam Wahida, MD, PhD, Harvard; Kristen Wigby, MD, RCIGM; Sanath Ramesh, Parent
Moderator: Jerica Lenberg, MS, LCGC, RCIGM

5:00 pm Frontiers 2026 Closing Stephen Kingsmore, MD, DSc Pres. & CEO, RCIGM

5:15 pm

Reception