GLOBAL LEARNING OBJECTIVES
Upon completion of this live activity, participants will be able to:

• Summarize the latest genomic discoveries and technology innovations driving rare disease research and precision medicine.
• Discuss approaches for applying genomics and bioinformatics to rare disease molecular diagnosis.
• Identify key barriers to connecting patients and providers with genetic counselors and keeping them engaged.
• Review deep phenotyping software for clinical genetics evaluation.
• Discuss practical strategies for integrating software into clinic.
• Review emerging trends how deep learning and bioinformatics strategies can be combined to bring new hope for devising cost-effective solutions to treat rare human genetic disorders.
• Discuss how AI can help with therapeutic identification in precision medicine.

CONTINUING EDUCATION
CME
Children’s of Alabama designates this live activity for a maximum of 5.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Children’s of Alabama is accredited by the Medical Association of the State of Alabama to provide continuing medical education for physicians.

BEYOND THE DIAGNOSIS ART EXHIBIT
Selected works from this traveling art exhibit, focusing on the rare disease patient, will be displayed at Children’s of Alabama from mid-February through mid-March of 2020. Art has been used for thousands of years to successfully convey a message, whether it be a story or a glimpse into the human spirit. The purpose of this exhibit, presented by the Rare Disease United Foundation, is to encourage a look “beyond the diagnosis” to the patient.
FRIDAY, FEBRUARY 21, 2020
AGENDA

8:00-8:30  Registration and Breakfast
           Doors open at 8:00 for Breakfast

SESSION 1
8:30-9:15  Genome-Guided Rare Disease Molecular Diagnosis and Drug Prioritization
           ~ Brittany N. Lasseigne, PhD

9:15-9:45  Integration of Facial Analysis Software in Genetics Clinic
           ~ Anna C.E. Hurst, MD, MS

9:45-10:30 Leveraging Technology to Increase Genetic Counseling Access and Engagement
            ~ Meagan B. Farmer, MS, MBA

10:30-10:45 Break

10:45-11:45 KEYNOTE SPEAKER
           Computable Phenotyping for Diagnostics and Discovery
           ~ Melissa Haendel, PhD

11:45-Noon Break/Pick Up Lunch

SESSION 2
Noon-1:00  Parent Panel
           (CME credit is not offered for this session)

SESSION 3
1:00-1:45  Identification and Interpretation of Molecular Variation in Rare and Not So Rare Human Disease
           ~ Elizabeth Worthey, PhD

1:45-2:30  Artificial Intelligence in Precision Medicine
           ~ Matthew Might, PhD

2:30-3:15  AI for Rare Disease Drug Repositioning
           ~ Jake Y. Chen, PhD

3:15  Q&A and Wrap Up

SPEAKERS/MODERATORS

Ashley Cannon, MS, PhD
University of Alabama at Birmingham

Jake Y. Chen, PhD
University of Alabama at Birmingham

Meagan B. Farmer, MS, MBA
University of Alabama at Birmingham

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Oregon Health and Science University, Portland, OR

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Matthew Might, PhD
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