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Session 1 addresses the current need in advancing clinical phenotyping, genotyping, and biomarker development in ASD as critical tools for assessing patients. This session will also address racial disparities that exist in healthcare delivery and clinical research in ASD. See References #1 and #2:

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Session 2 addresses the need to accurately analyze neural circuit dysfunction in neurodevelopmental disorders, including ASD. It will update attendees on which circuits are involved in ASD and how identified circuit dysfunction may impact behavior. See Reference #3:

3. Müller RA, Fishman I. Brain Connectivity and Neuroimaging of Social Networks in Autism. Trends Cogn Sci. 2018 Dec;22(12):1103-1116. doi: 10.1016/j.tics.2018.09.008. Epub 2018 Oct 31. PMID: 30391214; PMCID: PMC7080636**.**

Session 3 addresses the need to identify the forms of ASD that are classified as "syndromic" autism that are typically caused by loss of function mutations in single genes. Examples of these are: Fragile X Syndrome, Rett Syndrome, Phelan-McDermid Syndrome and Tuberous Sclerosis. Diagnosis and treatment of the different forms and genetic causes of autism requires clinicians to be educated in their clinical presentation, causes and the latest treatments. See References #4 and #5:

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Session 4 addresses the current practice gap of under-utilizing novel treatments for ASD such as gene replacement therapy for monogenic forms of ASD, cerebellar circuit modulation, and small molecule and neuropsychopharmacology approaches for ASD. See Reference #6.

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