

JSPCCS-AHA Joint Session

Sat. Jul 11, 2026 9:10 AM - 10:50 AM JST | Sat. Jul 11, 2026 12:10 AM - 1:50 AM UTC | Room1 (Conference Hall A)

[AHAJS] JSPCCS-AHA Joint Session (III-AHAJS)

Basic Science in Congenital Heart Disease: Morphology, Genetics & Molecular Mechanisms

Chair: Antonio Cabrera (The Ohio State University, Nationwide Children's Hospital)

Chair: Yoshihide Mitani (Perinatal Care center, Mie University Hospital)

[III-AHAJS-1] AI-Powered Genomics: Accelerating Discovery and Therapeutics in Congenital Heart Disease

○ Seema Mital (Hospital for Sick Children, University of Toronto)

Keywords : Congenital heart disease、 genome sequencing、 AI models

This talk will show how AI is reshaping genomic discovery in congenital heart disease - revealing hidden causal variants deep in genomes missed by traditional methods. It will highlight how AI-powered integration of multi-omics and clinical data uncovers disease signatures that sharpen risk prediction and outcomes. Finally, it will demonstrate how these insights fuel novel target identification, accelerating drug discovery, paving the way for precision therapies for children with congenital heart disease.