

WORKSHOP: “Cardiac Development and Biomechanical Modeling”

Sunday June 1st, 2025, Time 13.00 – 15.00

13.00 – 13.30

The Critical Role of Cardiac Development and Biomechanical Modeling in Advancing our Understanding of Congenital Heart Defects: An Overview & Speaker Profiles

Talât Mesud Yelbuz, M.D., Ph.D., Professor of Pediatric Cardiology, King Abdulaziz Cardiac Center, Riyadh, Kingdom of Saudi Arabia

13.30 – 13.50

A Focus on the Looped Design of Vertebrate Hearts

Jörg Männer, M.D., Ph.D., Professor of Anatomy and Cardiac Embryology, Institute of Anatomy and Cell Biology, UMG, Georg-August-University Goettingen, Germany

+ 5 min

Q/A

13.55 – 14.15

Impact of Hemodynamics on Cardiac Development

Sandra Rugonyi, Ph.D., Professor of Biomedical Engineering, School of Medicine, Oregon Health & Science University, Portland, OR, USA

+ 5 min

Q/A

14.20 – 14.40

Left Atrial Ligation–Release Model for HLHS: Visualizing Hemodynamic and Biological Reversibility in Early Heart Development

Kerem Pekkan, Ph.D., Professor of Mechanical Engineering Department, Biofluids and Cardiovascular Mechanics Laboratory, Koc University, Istanbul, Türkiye

+5 min

Q/A

14.45 – 15.00

Group Discussion