



# 8<sup>th</sup> INTERNATIONAL SYMPOSIUM ON THE LIVING HEART & VIRTUAL HUMAN TWIN

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December 6-7 2022 | Brooklyn, NY & Virtual

THE NEXT HORIZON IN HEALTHCARE



PRELIMINARY  
AGENDA

# Tuesday, December 6<sup>th</sup>

## Medical R&D Innovations

9AM EST / 3PM CET – Broadcast start - The Promise of the Virtual Human Twin

Welcome and Introduction

Long Island University Program for Digital Health Engineering

Dassault Systèmes Vision for Life Sciences and Healthcare Industry

Multiscale Optimization of Cardiovascular Disease Treatments and Safety

### Virtual Twin Enabling Medical Innovations

Dassault Systèmes Progress Toward the Virtual Twin for Healthcare

Continuum Modeling of Thrombus Formation and Growth

Conduction Abnormality Following Transcatheter Aortic Valve Replacement

Design Optimization and Fatigue Life of a Novel TAVR Device

Patient-Specific Mechanics & Hemodynamics of Aortic Aneurysm

### Virtual Human Ecosystem

Living Heart & Virtual Human Twin Community Update

Origins of Breathing with the Living Lung

LIU Center of Excellence & Living Liver Project Vision

Day 1 Closing Remarks

Day 1 online streaming closure at 1:20PM EST / 7:20PM CET

### For local participants at LIU: Breakout Sessions & Networking

3DEXPERIENCE Demos

Center Of Excellence Lab Tours

Living Liver Project Meeting

Simulation for Life Sciences

# Wednesday, December 7<sup>th</sup>

## Regulatory & Clinical Care

9AM EST / 3PM CET – Broadcast start – Clinician Perspectives on Virtual Twins

Day 1 Recap and Day 2 Outlook

Patient Virtual Twins For Pediatric Cardiac Surgery

Changing role of the Radiologist

A Living Brain App for the Staff Meeting in Epilepsy Surgery

### Virtual Human Ecosystem

Opportunities, Vulnerabilities, and Planning for In Silico Clinical Trials

Importance of Regulatory Science Tools

FDA Sponsored ENRICHMENT In Silico Clinical Trial

### Virtual Human Ecosystem

Virtual Patients Enhanced AI for Improved Clinical Precision

Virtual Twin Based Education Centers

3DEXPERIENCE Labs Startup Incubator

Concluding Thoughts on the Future of the Virtual Human Twin

Symposium Adjourn & Day 2 online streaming closure at 1:30PM EST / 7:30PM CET

For local participants at LIU: Breakout Sessions & Networking

3DEXPERIENCE/LIU COE Demos

Living Heart Breakout



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