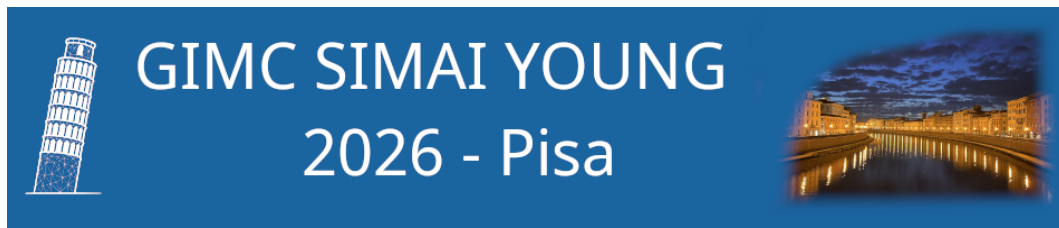


Session Program

3-5 Jun 2026



GIMC SIMAI Young 2026

MS05 - Multiscale Cardiac Electrophysiology: From Scalable Computational Solvers to Patient-Specific Simulations

Pisa

Wednesday 3 June

16:15

MS05 - Multiscale Cardiac Electrophysiology: From Scalable Computational Solvers to Patient-Specific Simulations

Session | Location: Aula E

16:15-16:30

A Computational Model of Human iPSC-Derived Ventricular Myocyte for Calcium-Mediated Arrhythmia and Disease Modeling

Speaker

Francesca Simone

16:30-16:45

Coupling cardiac electrophysiology models: from fine-scale to coarse-scale simulations

Speaker

Sara Demo

16:45-17:00

Second Order IMEX Time Stepping Methods for Efficient Multi-Electrode Array simulations

Speaker

Sofia Tonali

17:00-17:15

Neural Network Emulators for Cardiac Electrophysiology Modeling in Derived Stem Cardiomyocytes

Speaker

Sofia Botti

17:15-17:30

Multimodal Personalisation of Cardiac Electrophysiology Models Integrating 12-Lead ECG and CT Imaging

Speaker

Buntheng LY

18:00