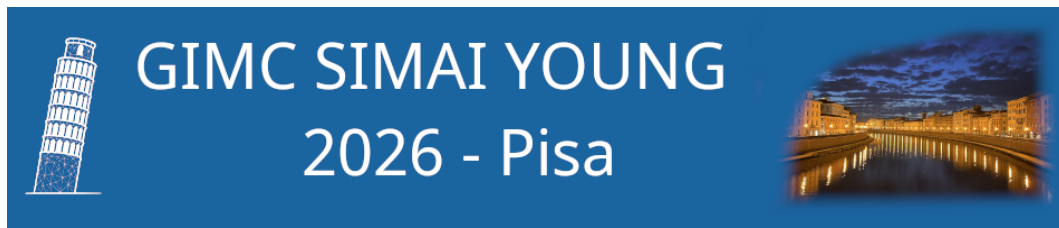


Session Program

3-5 Jun 2026



GIMC SIMAI Young 2026

MS13.1 - Mechanics and Microstructural Behavior of Biological Media: from Multiscale Modeling to Simulations

Pisa

Thursday 4 June

14:00

MS13.1 - Mechanics and Microstructural Behavior of Biological Media: from Multiscale Modeling to Simulations

Session | Location: Aula C

14:00-14:15

Multiscale modeling of nematic films and incompressible poroelastic media

Speaker

Chiara Lonati

14:15-14:30

Modeling the biomechanics of the human iris with an active strain approach

Speaker

Kevin Lucon

14:30-14:45

Modelling and simulation of anisotropic growth in brain tumours through poroelasticity: A study of ventricular compression and therapeutic protocols

Speaker

Francesca Ballatore

14:45-15:00

A micromechanical finite element model of the retina

Speaker

Damiano Bertolo

15:00-15:15

Multiscale continuous spectrum description of human fibrous tissues under dynamic conditions

Speaker

Gaia Prezioso

16:00