



Seminar Announcement

Seminar within the Master's degree program in Biomedical Engineering, open to all interested participants

30 GIUGNO 2026, 10:30-11:30 AULA 155/10

BUILDING TO UNDERSTAND BIOLOGICAL SYSTEMS: VERTICAL INTEGRATION IN HUMAN TISSUE MECHANOBIOLOGY

Prof. Francesco S. Pasqualini

UNIVERSITY OF PAVIA

Abstract

Human tissues are not explained by genes, matrix, forces, geometry, or time in isolation. The science sits in their coupling. This seminar argues that there is tangible bioengineering value in integration: building experimental systems where engineered cells, controlled microenvironments, live imaging, AI, and modeling make (cardiac) tissue mechanobiology explainable.

Bio

Francesco S. Pasqualini is Associate Professor of Industrial Bioengineering at the University of Pavia and Chair of the Bioengineering Subgroup of the Biophysical Society. He leads the ERC-funded Synthetic Physiology Laboratory. He trained in biomedical engineering at the Polytechnic University of Marche with Profs. Moriconi, Dyson, and Mazzoli, and later with Profs. Ingber and Parker at Harvard University.

For info: Prof. Micaela Morettini (m.morettini@staff.univpm.it)