



European Regional Development Fund







12:00 noon

(Italy Time)

The meeting will be held in English

More info at: www.incardio.eu



Professor for Medical Engineering and Systems Department Engineering and IT, Carinthia University for Applied Sciences (CUAS), Klagenfurt, AUSTRIA

"Modeling and Simulation of cardiac electrophysiology"

Host: S. Zacchigna

In this talk an overview about and introduction into the possibilities of modeling and in-silico simulating electrophysiological behavior of cardiac cells and compounds is given. The forward problem of electrophysiology will be explained, and practical application of the so-called inverse problem of electrophysiology – Non-Invasive Imaging of Cardiac Electrophysiology (NICE) – will be introduced. Also, patient-individual results of NICE, which were validated with interventions in the electrophysiology lab will be addressed and shown.

For consideration of mechanical forces and their possible implications on proliferation of myocardial cells as an outlook the potential links between electrophysiological and electromechanical modeling and simulation approaches will be addressed and discussed

Funded by

- European Regional Development Fund (ERDF)
- Interreg V-A Italy-Austria Programme 2014-2020







