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In silico trials: cardiac safety and efficacy

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The **Google meet**: meet.google.com/tfu-yeea-oer

Biography:

Lucía Romero is an associate professor in the department of Electronics Engineering at Universitat Politècnica de València (UPV), Spain, and develops her research in the Center for Research and Innovation in Bioengineering (Ci2B). Dr. Romero is involved in management of internships for students in the Master's Degree in Biomedical Engineering of the UPV. She graduated as Industrial Engineer (Electronics) in 2003 at the Escuela Técnica Superior de Ingeniería Industrial at Universitat Politècnica de València (UPV) and finished her PhD in 2007. She undertook several research stays at University of Oxford, to work with Dr. Blanca Rodríguez, and at University of California (Davis), to collaborate with Dr. Colleen E. Clancy. Moreover, she is a lecturer at the Department of Electronics Engineering at the UPV since 2005.

Research interests

Her research focuses on revealing mechanisms of arrhythmia generation and maintenance, and testing pharmacological and electrical therapies by developing and implementing computational modeling and simulation of the heart, especially on mutations and drugs, with a multiscale approach, from the molecular to the ion channel model to the organ level in the ventricles and the atria. She aims at contributing to precision medicine by personalizing the cardiac models and making progress in the diagnosis, prevention and treatment of cardiac arrhythmias.

Dr. Romero has published more than 30 papers in scientific journals, participated in more than 20 research projects and supervised 4 PhD students.



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