

SCIENTIFIC SEMINAR



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3D Bioelectronic Interfaces to Assess Cancer in vitro

The generation of in vitro platforms capable of mimicking the in vivo situation as an alternative to animal models is necessary for medicine and drug discovery. Electroactive poly(3,4ethylenedioxythiophene) polystyrene sulfonate (PEDOT:PSS) porous scaffolds can be used in the generation of 3D bioelectronics models that mimic an specific tissue with integrated electrical monitoring. Microfluidic devices offer optical transparency, miniaturization, and controlled media perfusion required in organ-on-a-chip models. The interface between 3D bioelectronics and microfluidic devices enables real-time electrical and optical monitoring of cellular processes, such as cell proliferation, in a controlled microenvironment.

Her research line focuses on the development of innovative biomimetic 3D bioelectronic interfaces for the simultaneous optical and electrochemical monitoring of cancer cell proliferation and migration.

CICbioGUNE

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ikerbasque

Basque Foundation for Science

Thursday
May 11
Atrio 800
12.00H



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