

# Thursday's NanoSpin-off

## TALKS

May 25<sup>th</sup>, 17h

ONLINE by ZOOM and  
PRESENTIAL  
(Aula. I+D Building)

Zoom



Cátedra **SAMCA**  
de Nanotecnología  
Universidad Zaragoza



**INMA**  
INSTITUTO DE NANOCIENCIA  
Y MATERIALES DE ARAGÓN



Universidad  
Zaragoza

TALK

# "INBRAIN Neuroelectronics: decoding brain signals into medical solutions."



SPEAKER

## José A. Garrido

CSO and Founder INBRAIN NEUROELECTRONICS.  
Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC and BIST.  
Institució Catalana de Recerca i Estudis Avançats (ICREA).

PRESENTER

## Soraya Sangiao

Departamento Física de la Materia Condensada. UNIZAR  
Instituto de Nanociencia y Materiales de Aragón.

**INBRAIN Neuroelectronics** is a new platform company at the intersection of Medtech, Deeptech and Digital Health dedicated to the development of neuroelectronic therapies through graphene-based high-resolution intelligent neural interfaces, with unprecedented stimulation and recording capabilities for the treatment of neurological-based disorders. INBRAIN's graphene-based neural interfaces allow spatially selective activation of target circuits as well as recording of low and high frequency signals that contains disease biomarkers. Such outstanding features pave the way towards the detection of therapy-specific biomarkers, increasing outcomes of adaptive and personalized neuromodulation therapies. Graphene is the thinnest carbon material known, only a single atom thick, and at the same time very strong, 200-300 times stronger than steel. On top of that is an excellent electrical conductor and has interesting light absorption abilities.