

## **Rosa Villa**

M.D. and PhD M.D. (ORCID 0000-0003-2735-3204). Since 1986 she works at the Microelectronics Institute of Barcelona, and since 2006 as permanent member of CSICs scientific staff (Scientific Researcher). Currently she leads the Biomedical Application's Group of the IMB-CNM (<http://gab.imb-cnm.csic.es/>), which main research interests are the design and fabrication of Micro and Nano Systems for Biomedical Applications. Her training and experience in the biomedical field has driven the group to focus its research in the final applications in order to develop different biomedical devices. She has co-authored 88 publications, 10 patents (3 licensing patents), and 5 book chapters. Furthermore, she has participated in more than 30 National and European projects, being principal investigator in 10 of them. Highlight that the commitment to transfer in the research developed that is also reflected in obtaining approvals by the Spanish Agency of Medicines and Medical Devices (AEMPS) for the realization of 3 clinical trials in collaboration with pharma companies. Her group is part of the Biomedical Research Networking Centre in Bioengineering, Biomaterial and Nanomedicine (CIBER-BBN). She also leads a consolidated research group recognized by the Agència de Gestió d'Ajuts Universitaris i de Recerca since 2014 (Bio-Micro-Nano-Systems group [2017 SGR 988]). Since 2016 she has co-managed the BioMEMS TECNIO group from the Generalitat de Catalunya.

Her current research focuses on the development of graphene-based neurotechnologies for advanced neural interfaces, biosensors and 'Organ-on-a-Chip' systems—microfluidic devices that mimic the physiological conditions in cell culture—. The Liver on a Chip, has received two awards (Innovation in Health 2015, initiative promoted from the Vall d'Hebron Institute of Research in collaboration with ACCIÓ and ROCHE Diagnostics and "Mejores ideas del 2016" from Diario Médico). She has founded a spin-off with IDIBAPS (Barcelona Liver Bioservices SL).