

## BIO

*M.V. Sanchez-Vives, MD, PhD*

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Maria V. Sanchez-Vives, M.D., PhD in Neuroscience, is an ICREA Research Professor at IDIBAPS (Institut d'Investigacions Biomèdiques August Pi i Sunyer) (Barcelona) since 2008, where she leads the Systems Neuroscience team. After completing her doctorate at the University of Alicante, she held postdoctoral and research associate positions at Rockefeller University and Yale University, before establishing her own laboratory at the Instituto de Neurociencias de Alicante (UMH-CSIC) and serving as Associate Professor of Physiology at the Faculty of Medicine of Universidad Miguel Hernández (2000–2007).

Her work spans brain rhythms in health and disease, multiscale cortical dynamics, neurotechnology and neuromodulation, and the use of virtual reality—particularly virtual-body embodiment—for neuroscience and clinical applications (including pain and rehabilitation). She has published over 200 articles/chapters in leading scientific journals including *Science*, *Nature Neuroscience*, *Nature Reviews Neuroscience*, *Nature Physics*, *Nature Materials*, *Proc Natl Acad Sci USA*, *PLoS Biology*, *Journal of Neuroscience*, *Neuron*, and has also presented more than 400 scientific presentations in international conferences. MVSV has also supervised 32 PhD Theses. She has received competitive fellowships and grants (including FPI pre- and postdoctoral fellowships, a NATO postdoctoral fellowship, the American Epilepsy Foundation, and the Human Frontier Science Program). She has participated in 14 European projects and coordinated four of them (CORTICONIC, SLOW-Dyn, VRperGENERE, META-BRAIN). Within the Human Brain Project she coordinated the work package “Networks underlying cognition and consciousness” serving on its Science and Infrastructure Board, and she was also a partner in the Graphene Flagship. She is currently one of four PIs in the European Research Council Synergy grant NEMESIS, focused on lesion propagation and repair, and she leads the EIC project META BRAIN on nanotechnology-enabled precision neuromodulation.

A frequent keynote and invited speaker, she has delivered plenary and keynote lectures and contributed widely to international conferences, workshops, panels, and symposia, and her group has authored numerous posters and collaborative contributions. She served as Chief Editor of *Frontiers in Systems Neuroscience* (2013–2025). She is also active in translation and public engagement, with more than 100 media appearances across TV, radio, and press, and participation in multiple documentaries on brain science and virtual reality. She acts as scientific advisor of Gadea Science Foundation and in the Advisory Board of two neuroscience institutes and one company. Her recognitions include the 2020 Prize for Co-Responsibility from FIDEM (International Foundation of Entrepreneur Women), being named Alumna Ilustre of the University of Alicante (2024), and election to Academia Europaea (member since 2024).