Maria V. Sanchez-Vives (Mavi Sanchez-Vives) is a neuroscientist. MD and PhD in neurosciences, she is ICREA Research Professor at Institut d'Investigacions Biomediques August Pi Sunyer (IDIBAPS) in Barcelona since 2008, where she leads the Systems Neuroscience group. She is also co-director of the EVENT Lab (Experimental Virtual Environments in Neuroscience and Technology Lab) at the University of Barcelona.

Maria V. Sanchez Vives was a postdoctoral fellow at Rockefeller University and at Yale Medical School. She later established her own lab at the Neuroscience Institute, Alicante (UMH-CSIC) while being Associate Professor of Physiology at the Medical School.

She has authored over 150 peered-reviewed scientific articles (https://scholar.google.com/citations?user=XrLVv8UAAAAJ&hl=es), some of them highly cited, such as her work on slow oscillations in cerebral cortex in vitro, or pioneering work on virtual reality in neuroscience and embodiment.

She has supervised 24 PhD theses.

Her interests and expertise are the neuronal and network properties determining the emergent activity in the cerebral cortex and the different brain states. Using an experimental and computational approach, she is interested in neurotechnology and neuromodulation.

She has also worked on the use of virtual reality in neuroscience.The integration of cortical information giving rise to bodily representation and the combination of brain activity and virtual reality for understanding these processes is another research line that her team pursuing, such as the use of virtual reality and body transformation for pain research.

Dr Sanchez-Vives is a member of the Science and Infrastructure board of the Human Brain Project and leader of the Workpackage devoted to “Networks underlying cognition and consciousness”. Her team at IDIBAPS is also a partner at the Graphene Flagship, where they explore graphene microtransistors for brain recordings.

Dr Sanchez-Vives is Specialty Chief Editor of the journal Frontiers in Systems Neuroscience.