

Marcello Massimini MD, PhD

Born April 5th 1970 in Milan (Italy)

Married to Valentina Conserva, 2 children (Giacomo and Alessandro)

**Current Address**

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Current Position

Full Professor of Physiology, Department of Clinical Science, University of Milan, Italy.

Overview

Marcello Massimini, was trained as a Medical Doctor, received a PhD in Human Physiology and is currently Associate Professor of Human Physiology at the University of Milan. He worked at Laval University in the lab of Mircea Steriade and at the University of Wisconsin (USA) with Giulio Tononi. Spanning from in vivo intracellular recordings to neuroimaging in humans, his whole research activity has been devoted to understanding what changes in thalamocortical circuits when consciousness fades and recovers. Specifically, his work focuses on developing theory driven measures of consciousness and on identifying the basic neurophysiological mechanisms that determine the loss and recovery of consciousness within thalamocortical networks in different conditions such as wakefulness, sleep, dreaming, anesthesia, epilepsy and brain injury. He has been involved as a PI in several European projects (FP6, FP7, H2020, SNF Sinergia) and is a recipient of the James S McDonnell Scholar Award 2013. Besides research, Dr. Massimini has devoted substantial time to teaching Physiology, mentoring undergraduate and graduate students and in scientific dissemination.

Education/Training

1996: Degree in Medicine, University of Milan (Italy)

2001: PhD in Human Physiology, University of Milan (Italy)

Positions and employments

2016-today: Senior Fellow, Canadian Institute of Advanced Research, Canada

2015-today: Member of the Scientific and Technical Board of Fondazione Don Gnocchi

2015-today: Guest Professor, ZEN Center for Experimental Neurology, Bern, Switzerland

2009-2012: Visiting Professor, ComaScience Group, University of Liege, Belgium

2002-2006: Research Associate, Department of Psychiatry, University of Wisconsin, USA

1999-2000: Assistant Scientist, Department of Physiology, Laval University, Quebec, Canada

Honors and awards

2002: Pickwick Post-Doctoral Fellowship, National Sleep Foundation, USA

2006: Sanofi-Aventis Research Award, European Sleep Research Society

2011: Young Investigator Award, World Sleep Foundation
2011: "Premio SIPP", Italian Psychophysiological Society
2017: Gold Medal "Faustino Savoldi", Istituto Lombardo di Scienze e Lettere
2017: Athena Award, by Athena Onlus Foundation (Rome)

Research Support

2005 – FP6 EU grant, STREP, LSHM-CT-2005-518189, "Enough sleep" (Euro 240.000)
2006 – PRIN 2006 "Sonno e Plasticità Corticale" (Euro 70.000)
2007 - FP7 EU grant -PEOPLE-2007-4-3-IRG "Spindlesinschizo" (Euro 100.000)
2008 – FP7 EU grant, STREP, FP7-ICT-2007-2. "PredictAD" (Euro 269.000)
2010 - PRIN 2010 "Connage" (Euro 120.000)
2013 – FP7 EU grant, ICT – 2011-9, 600806 "Corticonics" (Euro 320.000)
2013 - James S McDonnell Scholar Award 2013 "Consciousness and brain complexity" (USD 600.000)
2015 – Sinergia Grant, Swiss National Science Foundation (Euro 286.000)
2015 – EU grant, H2020-FETOPEN-2014-2015-RIA "Luminous" (Euro 322.000)
2015 – EU grant, H2020 - Human Brain project open call "WaveScales" (Euro 310.000)
2015 – EU grant, H2020 - Human Brain project open call "ConsciousBrain" (Euro 427.000)
2018 – EU grant, H2020 – Human Brain Project SGA2 (Euro 630.000)

Bibliometric Indices:

Total: **75**; Total Citations: **5768** (ISI WoS); h-Index: **35** (ISI WoS);

Selected Publications:

Shaping the Default Activity Pattern of the Cortical Network.

Sanchez-Vives MV, Massimini M, Mattia M.

Neuron. 2017 Jun 7;94(5):993-1001.

Koch C, Massimini M, Boly M, Tononi G. The neural Correlates of Consciousness: Progress and Problems

Nature Review Neuroscience, 2016 May;17(5):307-21

Casarotto S, Comanducci A, Rosanova M, Sarasso S, Fedchio M, Napolitani M, Pigorini A, Casali AG, Trimarchi PD, Boly M, Gosseries O, Bodart O, Curto F, Mariotti M, Devalle G, Laureys S, Tononi G, Massimini M. Stratification of unresponsive patients by an independently validated index of brain perturbational complexity.

Ann Neurol. 2016 Nov;80(5):718-729.

Sarasso S, Boly M, Napolitani M, Gosseries O, Charland-Verville V, Casarotto S, Rosanova M, Casali AG, Brichant JF, Boveroux P, Rex S, Tononi G, Laureys S, Massimini M. Consciousness and Complexity during Unresponsiveness Induced by Propofol, Xenon, and Ketamine

Current Biology 2015 Dec 7;25(23)

Casali Adenauer, Gosseries Olivia, Rosanova Mario, Boly Melanie, Sarasso Simone, Casali Karina, Casarotto Silvia, Bruno Marie-Aurelie, Laureys Steven, Tononi Giulio, Massimini Marcello.

A theoretically based index of consciousness independent of sensory processing and behavior.

Science Translational Medicine 2013 Aug 14;5(198):198ra105. doi: 10.1126

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