Curriculum Vincenzo Di Lazzaro

Vincenzo Di Lazzaro, is Professor of Neurology, Medical Director for Clinical Neurology, Director for the Neurology Residency Program and Dean of Campus Bio-Medico Medical School.

He is Past President of Italian Society of Clinical Neurophysiology.

Vincenzo Di Lazzaro received his M.D. in 1986 and his residency in Neurology in 1990, both from Università Cattolica del Sacro Cuore in Rome, Italy. He joined Campus Bio-Medico Medical School in 2012.

His clinical focus is the care of patients with dementia, stroke, Parkinson disease and other neurodegenerative disorders.

The main areas of research are the study of the physiological bases of recovery in stroke and the development of methods of neuromodulation (both invasive and non-invasive) as potential treatment tools for several neurological diseases, movement disorders and stroke in particular. The studies on the invasive deep brain stimulation are highly cited and have a significant impact on the field of deep brain stimulation, these studies elucidated the mechanisms of action of high frequency stimulation of the human basal ganglia and identified new targets for deep brain stimulation such as the peduncolo pontine nucleus. Another relevant area is the use of neurophysiological techniques for the diagnosis of neurological disorders (dementia in particular), for the evaluation of the effects of drugs on the intact human brain and for the study of human brain plasticity.

Previous Appointments

Clinical Scientist, Human Movement & Balance Unit, The Institute of Neurology

(Prof. John C. Rothwell), London, 03-09/1993

Clinical Research Scientist, Human Movement & Balance Unit, The Institute of

Neurology (Prof. John C. Rothwell), London, 04-05/1994

Assistant Professor of Neurology, Department of Neurology, Università Cattolica

Rome, Italy, 03/1997 –09/2004, Head of the Brain stimulation Laboratory

Clinical Research Scientist, Human Movement & Balance Unit, The Institute of

Neurology (Prof. John C. Rothwell), London, 05/1999

Visiting Physician Stroke Unit and Neuro Critical Care Unit Department of Neurology (Prof. Werner Hacke), Ruprecht-Karls-University Heidelberg, Germany

Associate Professor of Neurology, Department of Neurology, Università Cattolica 2004-30th of April 2012

Rome, Italy, Head of the Stroke Unit and of Brain stimulation Laboratory 10/2004-4/2012

Director of the Parkinson's Disease Research Center, Università Cattolica Rome, Italy, 2007-2012

Awards and Recognitions

Elected Corresponding Member of the German Society for Clinical Neurophysiology and Functional Imaging (BGKN) (2020)

Ellermann Lecture (Ellermann Foundation of the Medical Faculty of Bern). University of Bern, Switzerland (2005)

"Sapio" Award for Italian Research (2005)

Publications:

Over 400 peer-reviewed publications, 10 book chapters; >36.000 Citations; h-index: 80

Selected Publications:

1. Di Lazzaro V, Rothwell J, Capogna M. Noninvasive Stimulation of the Human Brain: Activation of Multiple Cortical Circuits. Neuroscientist. 2018 Jun;24(3):246-260.

2. di Biase L, Brittain JS, Shah SA, Pedrosa DJ, Cagnan H, Mathy A, Chen CC, Martín-Rodríguez JF, Mir P, Timmerman L, Schwingenschuh P, Bhatia K, Di Lazzaro V, Brown P. Tremor stability index: a new tool for differential diagnosis in tremor syndromes. Brain. 2017 Jul 1;140(7):1977-1986

3. Guerra A, Pogosyan A, Nowak M, Tan H, Ferreri F, Di Lazzaro V, Brown P. Phase Dependency of the Human Primary Motor Cortex and Cholinergic Inhibition Cancelation During Beta tACS. Cereb Cortex. 2016 Oct;26(10):3977-90.

4. Di Pino G, Pellegrino G, Assenza G, Capone F, Ferreri F, Formica D, Ranieri F, Tombini M, Ziemann U, Rothwell JC, Di Lazzaro V. Modulation of brain plasticity in stroke: a novel model for neurorehabilitation. Nat Rev Neurol. 2014 Oct;10(10):597-608.

5. Sanna T, Diener HC, Passman RS, Di Lazzaro V, Bernstein RA, Morillo CA, Rymer MM, Thijs V, Rogers T, Beckers F, Lindborg K, Brachmann J; CRYSTAL AF Investigators. Cryptogenic stroke and underlying atrial fibrillation. N Engl J Med. 2014 Jun 26;370(26):2478-86.

6. Di Lazzaro V, Profice P, Pilato F, Capone F, Ranieri F, Florio L, Colosimo C, Pravatà E, Pasqualetti P, Dileone M. The level of cortical afferent inhibition in acute stroke correlates with long-term functional recovery in humans. Stroke.2012 Jan;43(1):250-2.

7. Di Lazzaro V, Pilato F, Batocchi AP, Restuccia D, Cammarota G, Profice P. Tired legs a gut diagnosis. Lancet. 2010 Nov 20;376(9754):1798.

8. Di Lazzaro V, Profice P, Pilato F, Capone F, Ranieri F, Pasqualetti P, Colosimo C, Pravatà E, Cianfoni A, Dileone M. Motor cortex plasticity predicts recovery in acute stroke. Cereb Cortex. 2010 Jul;20(7):1523-8

9. Di Lazzaro V, Dileone M, Pilato F, Profice P, Oliviero A, Mazzone P, Insola A, Capone F, Ranieri F, Tonali PA. Associative motor cortex plasticity: direct evidence in humans. Cereb Cortex. 2009 Oct;19(10):2326-30.

10. Di Lazzaro V, Dileone M, Profice P, Pilato F, Cioni B, Meglio M, Capone F, Tonali PA, Rothwell JC. Direct demonstration that repetitive transcranial magnetic stimulation can enhance corticospinal excitability in stroke. Stroke. 2006 Nov;37(11):2850-3.

11. Di Lazzaro V, Pilato F, Dileone M, Saturno E, Oliviero A, Marra C, Daniele A, Ranieri F, Gainotti G, Tonali PA. In vivo cholinergic circuit evaluation in frontotemporal and Alzheimer dementias. Neurology. 2006 Apr 11;66(7):1111-3.

12. Di Lazzaro V, Pilato F, Oliviero A, Saturno E, Dileone M, Tonali PA. Role of motor evoked potentials in diagnosis of cauda equina and lumbosacral cord lesions. Neurology. 2004 Dec 28;63(12):2266-71

13. Di Lazzaro V, Oliviero A, Pilato F, Saturno E, Dileone M, Meglio M, Colicchio G, Barba C, Papacci F, Tonali PA. Effects of vagus nerve stimulation on cortical excitability in epileptic patients. Neurology. 2004 Jun 22;62(12):2310-2.

14. Di Lazzaro V, Oliviero A, Tonali PA, Marra C, Daniele A, Profice P, Saturno E, Pilato F, Masullo C, Rothwell JC. Noninvasive in vivo assessment of cholinergic cortical circuits in AD using transcranial magnetic stimulation. Neurology. 2002 Aug 13;59(3):392-7.

15. Brown P, Oliviero A, Mazzone P, Insola A, Tonali P, Di Lazzaro V. Dopamine dependency of oscillations between subthalamic nucleus and pallidum in Parkinson's disease. J Neurosci. 2001 Feb 1;21(3):1033-8.

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