

Giovanni Pellegrino, MD

Date of birth: 20th August 1982

Address: 1445 Rue Stanley #204, Montréal, QC H3A 3T1

Phone: +1-438-923-9781; +39-3285456825

e-mail: giovannipellegrino@gmail.com

Web:

scholar.google.com/citations?user=5M8xm0MAAAAJ&hl=en h-index=19; i10-index=30

www.researchgate.net/profile/Giovanni_Pellegrino3

Research ID

- orcid.org/0000-0002-1195-1421;
- Scopus Author ID: 38362100100;
- ResearcherID: K-5328-2016.

CAREER GOAL

Research and clinical activity in neurology and neurophysiology

PROFILE SUMMARY

- MD and Neurology Specialist
- Adjunct Professor, Department of Neuroscience, University of Padua, Italy
- Long-lasting experience in neuroscience
- International research experiences in neurophysiology and epilepsy
- Clinical neurological expertise

ACADEMIC CREDENTIALS

- **2018-2020 McGill University** – Montreal – Canada
Frederick Andermann Clinical and Research Fellow in Epileptology and EEG
- **Since 2017 (expected graduation in 2020) University of Padua** – Italy
Department of Neuroscience - PhD Candidate in Translational Medicine.
- **2013-2016 McGill University** – Montreal – Canada
Post-doctoral fellow at Multimodal Functional Imaging Lab (Multi FunkIm), Biomedical Engineering Department. Topic: multimodal functional imaging in epilepsy Supervisor: Prof. C. Grova.
- **2013 Campus Bio Medico University of Rome, Italy**
Degree as Doctor of Neurology - 50/50 (cum laude). Thesis: “Shape-based TMS mapping reveals motor finger somatotopy in M1HAND”. Supervisor: Prof. V. Di Lazzaro, Assistant supervisor: Prof. M Tombini
- **2012-2013 DRCMR** - Danish Research Centre for Magnetic Resonance – Copenhagen -Denmark
Research trainee. Supervisor Prof. H.R. Siebner
- **2007 Campus Bio-Medico University of Rome, Italy**
License to practice as a Medical Doctor.
- **2007 Campus Bio-Medico University of Rome, Italy**
Degree in Medicine and Surgery (110/110 cum laude and honour mention). Thesis: “Neurophysiological evaluation of the role of sensory-motor areas in the catching task”. Supervisor: Prof. P.M. Rossini
Assistant supervisor: Prof. M. Tombini

CLINICAL EXPERIENCE

- **April 2020 – ongoing IRCCS Fondazione Ospedale S. Camillo** – Venice, Italy
Consultant neurologist

- **2018-2020 Montreal Neurological Institute and Hospital, McGill University** - Montreal, Canada
Epilepsy and EEG Fellow
- **2016-2018 IRCCS Fondazione Ospedale S. Camillo** – Venice, Italy
Consultant Neurologist
- **2013** - Nursing house – **Residenza Magnolia** – Rome, Italy
Head MD and Neurologist
- **2008-2013 - Campus BioMedico University of Rome**, Italy
Post-graduate Neurology School. Mentors: Prof Rossini (2008-2011), Prof. Sterzi (2011-2012) e Prof. Di Lazzaro (2012-2013)
- **2007-2012 - Campus Bio-Medico University of Rome**, Italy.
Electroencephalography and neurophysiology laboratory, sleep laboratory. Neurological Clinic Department. Head: Prof. Mario Tombini, Prof. Paolo Maria Rossini
- **2005-2011 Neuroscience Department. Fatebenefratelli Hospital, Isola Tiberina, Rome. Italy.** Head: Prof. Paolo Maria Rossini
Neurological clinical practice.

RESEARCH EXPERIENCE

- **2020 – ongoing IRCCS Fondazione Ospedale S. Camillo** – Venice, Italy
Senior researcher
- **2018-2020 – Montreal Neurological Institute and Hospital, McGill University** - Montreal, Canada
Epilepsy and EEG Research Fellow
- **2017-2018 - IRCCS Ospedale San Camillo** – Venice, Italy
Delegated for Research Committee
- **2016-2018- IRCCS Ospedale San Camillo** – Venice, Italy
MEG Lab Clinical Research Coordinator. MEG, EEG, TMS, tDCS, Multimodale Neuroimaging, Epilepsy, Stroke.
- **2013-2016 – McGill University**, BioMedical Eng. Department and **Montreal Neurological Institute**, Montreal, Quebec, Canada
EEG, MEG, fNIRS, TMS, Neurophysiology, Epilepsy.
- **2012-2013 - Danish Research Centre for Magnetic Resonance** – Copenhagen, Denmark. Prof. H. R. Siebner.
EEG, TMS, TMS-EEG, advanced TMS neuronavigation for research on motor control, action selection, and psychiatric disorders
- **2006-2013**
 - Laboratory of Electrophysiology for Translational neuroScience (LET'S) - Istituto di Scienze e Tecnologie della Cognizione- Consiglio Nazionale delle Ricerche. Isola Tiberina Rome. Prof. F. Tecchio
EEG, TMS, EP research on motor control, stroke and neurorehabilitation, Alzheimer Disease, Sleep/Epilepsy
 - Clinical Neurophysiology Lab. Campus Biomedico University of Rome, Italy
Prof. M. Tombini, Prof. PM Rossini, Prof. V. Di Lazzaro EEG, TMS, EP
Research on motor control, stroke and neurorehabilitation, Alzheimer Disease, Sleep and Epilepsy

TEACHING EXPERIENCES

- **2020:** Campus Biomedico University of Rome. PhD course in Integrated Biomedical Sciences and Bioethics. PhD thesis external reviewer: Title: The neural mechanisms of body representation: new insights to facilitate prosthesis
- **2019 University of Padua** – Padua, Italy
Depart of Neuroscience, Adjunct professor

- **2017 University of Padua** - Padua, Italy
Master in BioStatistics, supervisor of Dr. C. Turco. Project Title: “Effects of brain stimulation technique on the architecture of brain networks assessed with magnetoencephalography (MEG)”
- **2016 Polytechnique of Montreal - University of Montreal**. Montreal, Quebec, Canada
Opponent for Dr. Ke Peng PhD. Title: “Study of the hemodynamic response to interictal epileptiform discharges in human epilepsy using functional near infrared spectroscopy”.
- **2016 McGill University – Montreal Neurological Institute**. Montreal, Quebec, Canada
Training for magnetic and electric source imaging in epilepsy.
- **2014 Faculty of Medicine, McGill University**, Montreal, Canada.
Postgraduate Student Research Day. Poster judge.
- **2010-2012 Campus Bio-Medico University of Rome**, Italy
Medical and Vocational Tutor – Medical School- Campus Bio-Medico University of Rome.
- **2008-2012 Campus Bio-Medico University of Rome**, Italy
Neurology Tutor – Department of Neuroscience- Medical School- Campus Bio- Medico University of Rome.
- **2002-2003 Campus Bio-Medico University of Rome**, Italy
Human Anatomy teaching assistant – Medical School- Campus Bio-Medico Roma. University of Rome. Prof. E. Gaudio; Prof. S. Morini.
- **2002-2006 Campus Bio-Medico University of Rome**, Italy
Physiology teaching assistant – Medical School – Campus Bio-Medico, Roma. University of Rome. Prof. F. Keller.

AWARDS AND HONORS

- **2019 American Society of Clinical Neurophysiology (ACNS)**: Young Investigator Travel Award (~1250\$)
- **2019 American Society of Clinical Neurophysiology (ACNS)**: Best abstract and Annual Meeting Research Highlights
- **2018 Frederick Andermann Clinical and Research Fellow in Epileptology and EEG**, Montreal Neurological Institute and Hospital, McGill University, Montreal, Canada
- **2015 3rd North America Meeting on Brain Stimulation and Neuroimaging**, Best abstract - Oral presentation
- **2014 Richard and Edith Strauss Postdoctoral Fellowship in Medicine**, Faculty of Medicine, McGill University
- **2010 Hipponion stroke national prize**, Vibo Valentia, Italy – Participation Grant
- **2010, 2013, 2016, 2017 SIN**: Società Italiana di Neurologia, Grant Progetto Giovani (Young investigator award of the Italian Neurology Society)

FUNDING

- **2020** - The Research Foundation - Flanders (FWO). Senior research projects fundamental research. Project title: “What's in a (brain) wave? Dissecting data features and neurophysiological properties in steady state evoked potentials” Role: Co-PI. Total Value ~340.000Euros. Awaiting evaluation.
- **2019 – Italian Ministry of Health**. Call: Ricerca Finalizzata – Giovani Ricercatori. Project title: “Assessment and modulation of cortical gamma synchrony to predict and improve stroke recovery”. Role: PI. Amount ~711000Euros. Awaiting evaluation.
- **2018 Frederick Andermann Clinical and Research Fellow in Epileptology and EEG**, Montreal Neurological Institute and Hospital, McGill University, Montreal, Canada
- **2016 - Quebec Neuroimaging Network (QBIN) Post-Doctoral Scholarship** (7000 CAD, refused). Title: “Setting-up new strategies to treat focal epilepsy using Magnetoencephalography (MEG) connectivity data to guide personalized neurostimulation”

- **2015 - 2016** 13th pilot project – **Quebec Neuroimaging Network**. Co-Investigator. (10.000 CAD) Title: “Hemodynamic correlates of transient and stable changes in neuronal excitability: a simultaneous Transcranial Magnetic Stimulation (TMS) / functional Near Infra Red Spectroscopy (fNIRS) study”
- **2015 – MEDIA - Music: EmboDiment In Action**. Campus Bio-Medico University of Rome. Co-Investigator. (12.712 Euros)
- **2014 Richard and Edith Strauss Postdoctoral Fellowship in Medicine**, Faculty of Medicine, McGill University

EDITORIAL ACTIVITY

- **2018-2019**: Editor special issue Neural Plasticity journal. Title: “Investigating and Modulating Physiological and Pathological Brain Oscillations: The Role of Oscillatory Activity in Neural Plasticity”
- **Since 2019**: Review Editor Frontiers in Neurology
- **Since 2018** Editorial Board Clinical Neurophysiology Journal
- **Since 2018**: Review Editor Frontiers in Neuroscience
- **Since 2012** Associate editor Restorative Neurology and Neuroscience

INVITED PEER REVIEW ACTIVITY (most relevant – incomplete list)

Nature Scientific Report, Neuroimage, Restorative Neurology and Neuroscience, Journal of Neurophysiology, Behavior Research Methods, BioMed Research International, IEEE EMBS, International Journal of Alzheimer's Disease, International Journal of Neural Systems, Behavioral neurology, Open Neuroimaging Journal, Journal of Biomedical and Health Informatics, Annals of translational medicine, The Journal of Integrative Neuroscience, Neuromodulation, Neural Regeneration Research Journal, Scientifica, Frontiers in Human Neuroscience, Brain Topography, Seizure, Computer Methods and Programs in Biomedicine, Transactions on Biomedical Engineering, Neurological Sciences, Clinical EEG and Neuroscience, Journal of Neurological Sciences, Neuroscience Letters, Clinical Neurophysiology, Functional Neurology, JoVE, Epilepsia Open.

Invited Talks

- **2020** - ACNS: American Clinical Neurophysiology Society, Annual Meeting, New Orleans (USA). *Title*: “I know what I like, but the data tells a story...”
- **2019** – Societa’ Italiana di Neurofisiologia Clinic (Annual Meeting of the Italian Society for Clinical Neurophysiology), Rome, Italy. *Title*: “Introduzione di metodiche per il “merging” dei dati hdEEG e MEG a scopo clinico” (Introduction to techniques for high-density EEG and MEG data fusion for clinical application).
- **2019** – Lega Italiana Contro L’Epilessia (LICE, Annual Meeting of the Italian Chapter of the International League Against Epilepsy), Rome, Italy: *Title*: “Rilevanza clinica della connettività funzionale EEG e MEG” (Clinical role of EEG and MEG functional connectivity).
- **2019** – ACNS: American Clinical Neurophysiology Society, Annual Meeting, Las Vegas (Nevada – USA). *Title*: “Effects of MRI acoustic noise on brain activity and connectivity measured with magnetoencephalography (MEG)”
- **2018** – Campus Biomedico University of Rome. *Title*: “From brain waves to brain imaging: opportunities and pitfalls of magnetoencephalography source imaging.”
- **2017** – XXV Congress of the Italian Society of Psychophysiology and Cognitive Neuroscience (SIPF), Rome, Italy. *Title*: “From brain waves to brain images. MEG source localization, applications and pitfalls.”
- **2017** – IRCCS San Camillo Hospital, Venice, Italy. *Title*: “Multimodal investigation of focal epilepsy combining EEG with MEG, fMRI and fNIRS”
- **2015** – Campus Biomedico University of Rome. *Title*: “Multimodal investigation of focal epilepsy combining EEG with MEG, fMRI and fNIRS”.

- **2015** - Montreal Neurological Institute Epilepsy Day 2015, Montreal, Canada. *Title*: “Source localization of the seizure onset zone from ictal EEG/MEG data”.
- **2014** - fNIRS Course of the “Society for functional near-infrared spectroscopy”, Montreal, Canada. *Title*: “Simultaneous EEG/fNIRS acquisition in epilepsy”.
- **2014** - Dartmouth Rennes MNI Epilepsy Symposium. Montreal Neurological Institute and Hospital, Montreal, Canada. *Title*: “Personalized simultaneous EEG-NIRS to assess the neurovascular coupling in focal epilepsy”
- **2013** - PhD Course Multimodal Brain Imaging. Danish Research Center for Magnetic Resonance, Copenhagen, Denmark. *Title*: “State-dependent cortex stimulation guided by ongoing EEG activity”

PROFESSIONAL AFFILIATIONS

- **AES**: American Epilepsy Society
- **LICE**: Lega Italiana contro le Epilessie
- **SIN**: Società Italiana di Neurologia
- **EAEEG**: Eastern Association Of Electroencephalographers
- **ACNS**: American Society of Clinical Neurophysiology
- **CLAE**: Canadian League Against Epilepsy

RELEVANT SKILLS

- Brain stimulation (TMS, rTMD, tDCS), event related potentials, MEG, HD-EEG, NIRS.
- Experience in statistical analysis softwares: SPSS, GraphPad Prism.
- Experience in: Matlab, EEGLab, Brainstorm, SPM8, Psychopy, Freesurfer, Brainvisa

SCIENTIFIC PRODUCTION

Submitted/Under Review

- **Pellegrino G**, Pinardi M, Kobayashi E, Di Lazzaro V, Keller F, Arcara G, Piccione F, Di Pino G. *When noise becomes unexpectedly salient*.
- **Pellegrino G**, Hedrich T, Viviane Sziklas V, Lina JM, Grova C, Kobayashi E. *How cerebral cortex protects itself from interictal spikes: the role of alpha/beta inhibition*

Articoli peer-review

- **Pellegrino G**, Xu M, Alkuwaiti A, Porrás-Bettancourt M, Abbas G, Lina JM, Grova C, Kobayashi E, *Effects of Independent Component Analysis on magnetoencephalography source localization in pre-surgical frontal lobe epilepsy patients*. *Frontiers in Neurology*, In Press
- **Pellegrino G**, Hedrich T, Porrás-Bettancourt M, Lina JM, Aydin U, Hall J, Grova C, Kobayashi E. *Accuracy and spatial properties of distributed magnetic source imaging techniques in the investigation of focal epilepsy patients*, *Human Brain Mapping*, In Press.
- **Pellegrino G**, Arcara G, Cortese AM, Weis L, di Tomasso S, Marioni G, Masiero S, Piccione F, *Cortical gamma-synchrony measured with magnetoencephalography is a marker of clinical status and predicts clinical outcome in stroke survivors*. *Neuroimage: clinical*, in press.
- Zangrandi A, Mioli A, D’Alonzo M, Formica D, **Pellegrino G**, Di Pino G. *Conditioning transcranial magnetic stimulation on ventral premotor cortex shortens simple reaction times*. *Cortex*, in press.
- Cona G, Chiossi F, Di Tommaso S, **Pellegrino G**, Piccione F, Bisiacchi B, Arcara G. *Theta and Alpha oscillations as signatures of internal and external attention to delayed intentions: a MEG study*. *Neuroimage*. 2019 Oct 17:116295. doi: 10.1016/j.neuroimage.2019.116295. PubMed PMID: 31629832.

- Aydin Ü, **Pellegrino G**, Bin Ka'b Ali O, Abdallah C, Dubeau F, Lina JM, Kobayashi E, Grova C. *Magnetoencephalography resting state connectivity patterns as indicatives of surgical outcome in epilepsy patients*. J Neural Eng. 2020 Mar 18. doi: 10.1088/1741-2552/ab8113. [Epub ahead of print] PubMed PMID: 32191632.
- Capone F, **Pellegrino G**, Motolese F, Rossi M, Musumeci G, Di Lazzaro V. *Extremely Low Frequency Magnetic Fields Do Not Affect LTP-Like Plasticity in Healthy Humans*. Front Hum Neurosci. 2020 Feb 5;14:14. doi: 10.3389/fnhum.2020.00014. eCollection 2020. PubMed PMID: 32116603; PubMed Central PMCID: PMC7014826.
- **Pellegrino G**, Arcara G, Di Pino G, Turco C, Maran M, Weis L, Piccione F, Siebner HR. *Transcranial direct current stimulation over the sensory-motor regions inhibits gamma synchrony*. Hum Brain Mapp. 2019 Jun 15;40(9):2736-2746. doi: 10.1002/hbm.24556. Epub 2019 Mar 10. PubMed PMID: 30854728.
- Machado A, Cai Z, **Pellegrino G**, Marcotte O, Vincent T, Lina JM, Kobayashi E, Grova C. *Optimal positioning of optodes on the scalp for personalized functional near-infrared spectroscopy investigations*. J Neurosci Methods. 2018 Nov 1;309:91-108. doi: 10.1016/j.jneumeth.2018.08.006. Epub 2018 Aug 11. PubMed PMID: 30107210.
- Tombini M, Palermo A, Assenza G, **Pellegrino G**, Benvenga A, Campana C, Naciu AM, Assenza F, Lazzaro VD. *Calcium metabolism serum markers in adult patients with epilepsy and the effect of vitamin D supplementation on seizure control*. Seizure. 2018 May;58:75-81. doi: 10.1016/j.seizure.2018.04.008. Epub 2018 Apr 11. PubMed PMID: 29674238.
- Chowdhury RA, **Pellegrino G**, Aydin Ü, Lina JM, Dubeau F, Kobayashi E, Grova C. *Reproducibility of EEG-MEG fusion source analysis of interictal spikes: Relevance in presurgical evaluation of epilepsy*. Hum Brain Mapp. 2018 Feb;39(2):880-901. doi: 10.1002/hbm.23889. Epub 2017 Nov 21. PubMed PMID: 29164737.
- **Pellegrino G**, Mecarelli O, Pulitano P, Tombini M, Ricci L, Lanzone J, Brienza M, Davassi C, Di Lazzaro V, Assenza G. *Eslicarbazepine Acetate Modulates EEG Activity and Connectivity in Focal Epilepsy*. Front Neurol. 2018 Dec 11;9:1054. doi: 10.3389/fneur.2018.01054. eCollection 2018. PubMed PMID: 30619030; PubMed Central PMCID: PMC6297144.
- Mioli A, D'Alonzo M, **Pellegrino G**, Formica D, Di Pino G. *Intermittent Theta Burst Stimulation Over Ventral Premotor Cortex or Inferior Parietal Lobule Does Not Enhance the Rubber Hand Illusion*. Front Neurosci. 2018 Nov 23;12:870. doi:10.3389/fnins.2018.00870. eCollection 2018. PubMed PMID: 30532689; PubMed Central PMCID: PMC6265367.
- **Pellegrino G**, Tomasevic L, Herz DM, Larsen KM, Siebner HR. *Theta Activity in the Left Dorsal Premotor Cortex During Action Re-Evaluation and Motor Reprogramming*. Front Hum Neurosci. 2018 Sep 21;12:364. doi: 10.3389/fnhum.2018.00364. eCollection 2018. PubMed PMID: 30297991; PubMed Central PMCID: PMC6161550.
- **Pellegrino G**, Hedrich T, Chowdhury RA, Hall JA, Dubeau F, Lina JM, Kobayashi E, Grova C. *Clinical yield of magnetoencephalography distributed source imaging in epilepsy: A comparison with equivalent current dipole method*. Hum Brain Mapp. 2018 Jan;39(1):218-231. doi: 10.1002/hbm.23837. Epub 2017 Oct 11. PubMed PMID: 29024165.
- **Pellegrino G**, Maran M, Turco C, Weis L, Di Pino G, Piccione F, Arcara G. *Bilateral Transcranial Direct Current Stimulation Reshapes Resting-State Brain Networks: A Magnetoencephalography Assessment*. Neural Plast. 2018 Jan 11;2018:2782804. doi: 10.1155/2018/2782804. eCollection 2018. PubMed PMID: 29593782; PubMed Central PMCID: PMC5821992.
- Di Lazzaro V, **Pellegrino G**, Ranieri F, Florio L, Musumeci G, Caulo M, Ferretti A, Capone F. *Effects of repetitive TMS of the motor cortex on disease progression and on glutamate and GABA levels in ALS: A proof of principle study*. Brain Stimul. 2017 Sep - Oct;10(5):1003-1005. doi: 10.1016/j.brs.2017.05.003. Epub 2017 May 17. PubMed PMID: 28545769.
- Hedrich T, **Pellegrino G**, Kobayashi E, Lina JM, Grova C. *Comparison of the spatial resolution of source imaging techniques in high-density EEG and MEG*. Neuroimage. 2017 Aug 15;157:531-544. doi: 10.1016/j.neuroimage.2017.06.022. Epub 2017 Jun 13. PubMed PMID: 28619655.

- Larsen KM, **Pellegrino G**, Birkenow MR, Kjær TN, Baaré WFC, Didriksen M, Olsen L, Werge T, Mørup M, Siebner HR. *22q11.2 Deletion Syndrome Is Associated With Impaired Auditory Steady-State Gamma Response*. Schizophr Bull. 2018 Feb 15;44(2):388-397. doi: 10.1093/schbul/sbx058. PubMed PMID: 28521049; PubMed Central PMCID: PMC5815132.
- Di Lazzaro V, **Pellegrino G**, Capone F, Florio L, Dileone M, Cioni B, Ranieri F. *Reduction of disease progression in a patient with amyotrophic lateral sclerosis after several years of epidural motor cortex stimulation*. Brain Stimul. 2017 Mar - Apr;10(2):324-325. doi: 10.1016/j.brs.2016.11.012. Epub 2016 Nov 19. PubMed PMID: 27931885.
- Gramigna V, **Pellegrino G**, Cerasa A, Cutini S, Vasta R, Olivadese G, Martino I, Quattrone A. *Near-Infrared Spectroscopy in Gait Disorders: Is It Time to Begin?* Neurorehabil Neural Repair. 2017 May;31(5):402-412. doi: 10.1177/1545968317693304. Epub 2017 Feb 14. Review. PubMed PMID: 28196453.
- Assenza G, Campana C, Assenza F, **Pellegrino G**, Di Pino G, Fabrizio E, Fini R, Tombini M, Di Lazzaro V. *Cathodal transcranial direct current stimulation reduces seizure frequency in adults with drug-resistant temporal lobe epilepsy: A sham controlled study*. Brain Stimul. 2017 Mar - Apr;10(2):333-335. doi: 10.1016/j.brs.2016.12.005. Epub 2016 Dec 14. PubMed PMID: 28017320.
- Tombini M, **Pellegrino G**, Assenza G, Di Lazzaro V. *De novo multifocal myoclonus induced by lamotrigine in a temporal lobe epilepsy case*. J Neurol Sci. 2017 Feb 15;373:31-32. doi: 10.1016/j.jns.2016.12.022. Epub 2016 Dec 15. PubMed PMID: 28131212.
- Tombini M, Sicari M, **Pellegrino G**, Ursini F, Insardá P, Di Lazzaro V. *Nutritional Status of Patients with Alzheimer's Disease and Their Caregivers*. J Alzheimers Dis. 2016 Oct 18;54(4):1619-1627. PubMed PMID: 27636839.
- **Pellegrino G**, Tombini M, Curcio G, Campana C, Di Pino G, Assenza G, Tomasevic L, Di Lazzaro V. *Slow Activity in Focal Epilepsy During Sleep and Wakefulness*. Clin EEG Neurosci. 2017 May;48(3):200-208. doi: 10.1177/1550059416652055. Epub 2016 Jun 10. PubMed PMID: 27287223.
- Vasta R, Cerasa A, Gramigna V, Augimeri A, Olivadese G, **Pellegrino G**, Martino I, Machado A, Cai Z, Caracciolo M, Grova C, Quattrone A. *The movement time analyser task investigated with functional near infrared spectroscopy: an ecologic approach for measuring hemodynamic response in the motor system*. Aging Clin Exp Res. 2017 Apr;29(2):311-318. doi: 10.1007/s40520-016-0566-x. Epub 2016 Apr 7. PubMed PMID: 27055849.
- **Pellegrino G**, Hedrich T, Chowdhury R, Hall JA, Lina JM, Dubeau F, Kobayashi E, Grova C. *Source localization of the seizure onset zone from ictal EEG/MEG data*. Hum Brain Mapp. 2016 Jul;37(7):2528-46. doi: 10.1002/hbm.23191. Epub 2016 Apr 5. PubMed PMID: 27059157.
- Dubbioso R, **Pellegrino G**, Antenora A, De Michele G, Filla A, Santoro L, Manganelli F. *The Effect of Cerebellar Degeneration on Human Sensori-motor Plasticity*. Brain Stimul. 2015 Nov-Dec;8(6):1144-50. doi: 10.1016/j.brs.2015.05.012. Epub 2015 Jun 16. PubMed PMID: 26140957.
- Di Lazzaro V, Capone F, Di Pino G, **Pellegrino G**, Florio L, Zollo L, Simonetti D, Ranieri F, Brunelli N, Corbetta M, Miccinilli S, Bravi M, Milighetti S, Guglielmelli E, Sterzi S. *Combining Robotic Training and Non-Invasive Brain Stimulation in Severe Upper Limb-Impaired Chronic Stroke Patients*. Front Neurosci. 2016 Mar 8;10:88. doi: 10.3389/fnins.2016.00088. eCollection 2016. PubMed PMID: 27013950; PubMed Central PMCID: PMC4782015.
- **Pellegrino G**, Machado A, von Ellenrieder N, Watanabe S, Hall JA, Lina JM, Kobayashi E, Grova C. *Hemodynamic Response to Interictal Epileptiform Discharges Addressed by Personalized EEG-fNIRS Recordings*. Front Neurosci. 2016 Mar 22;10:102. doi: 10.3389/fnins.2016.00102. eCollection 2016. PubMed PMID: 27047325; PubMed Central PMCID: PMC4801878.
- von Ellenrieder N, **Pellegrino G**, Hedrich T, Gotman J, Lina JM, Grova C, Kobayashi E. *Detection and Magnetic Source Imaging of Fast Oscillations (40-160 Hz) Recorded with Magnetoencephalography in Focal Epilepsy Patients*. Brain Topogr. 2016 Mar;29(2):218-31. doi: 10.1007/s10548-016-0471-9. Epub 2016 Jan 30. PubMed PMID: 26830767; PubMed Central PMCID: PMC4754324.

- Di Lazzaro V, **Pellegrino G**, Di Pino G, Ranieri F, Lotti F, Florio L, Capone F. *Human Motor Cortex Functional Changes in Acute Stroke: Gender Effects*. Front Neurosci. 2016 Jan 29;10:10. doi: 10.3389/fnins.2016.00010. eCollection 2016. PubMed PMID: 26858590; PubMed Central PMCID: PMC4731507.
- **Pellegrino G**, Raffin E, Di Lazzaro V, Thielscher A, Siebner HR. *Bringing transcranial mapping into shape: Sulcus-aligned mapping captures motor somatotopy in human primary motor hand area*. Neuroimage. 2015 Oct 15;120:164-75. doi: 10.1016/j.neuroimage.2015.07.024. Epub 2015 Jul 15. PubMed PMID: 26188259.
- Di Pino G, **Pellegrino G**, Capone F, Assenza G, Florio L, Falato E, Lotti F, Di Lazzaro V. *Val66Met BDNF Polymorphism Implies a Different Way to Recover From Stroke Rather Than a Worse Overall Recoverability*. Neurorehabil Neural Repair. 2016 Jan;30(1):3-8. doi: 10.1177/1545968315583721. Epub 2015 Apr 20. PubMed PMID: 25896987.
- Di Lazzaro V, Dileone M, Capone F, **Pellegrino G**, Ranieri F, Musumeci G, Florio L, Di Pino G, Fregni F. *Immediate and late modulation of interhemispheric imbalance with bilateral transcranial direct current stimulation in acute stroke*. Brain Stimul. 2014 Nov-Dec;7(6):841-8. doi: 10.1016/j.brs.2014.10.001. Epub 2014 Oct 13. PubMed PMID: 25458712.
- Assenza G, Mecarelli O, Tombini M, Pulitano P, **Pellegrino G**, Benvenga A, Assenza F, Campana C, Di Pino G, Di Lazzaro V. *Hyperventilation induces sympathetic overactivation in mesial temporal epilepsy*. Epilepsy Res. 2015 Feb;110:221-7. doi: 10.1016/j.epilepsyres.2014.12.003. Epub 2014 Dec 13. PubMed PMID: 25616476.
- Di Pino, G; **Pellegrino, G**; Capone, F; Di Lazzaro, V; *Human cerebral cortex metaplasticity and stroke recovery* Austin J. Cerebrovasc. Dis. Stroke,1,2,,2014,
- 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. doi: 10.1038/nrneurol.2014.162. Epub 2014 Sep 9. Review. PubMed PMID: 25201238.
- Di Lazzaro V, **Pellegrino G**, Di Pino G, Corbetta M, Ranieri F, Brunelli N, Paolucci M, Bucossi S, Ventriglia MC, Brown P, Capone F. *Val66Met BDNF gene polymorphism influences human motor cortex plasticity in acute stroke*. Brain Stimul. 2015 Jan-Feb;8(1):92-6. doi: 10.1016/j.brs.2014.08.006. Epub 2014 Aug 23. PubMed PMID: 25241287; PubMed Central PMCID: PMC4813754.
- Capone, F; Corbetta, M; Barbato, C; **Pellegrino, G**; Di Pino, G; *An open label, one arm, dose escalation study to evaluate the safety of extremely low frequency magnetic fields in acute ischemic stroke* ,Austin J Cerebrovasc Dis & Stroke,1,1,4,2014
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LANGUAGES

Italian (Mother tongue) and English

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Dr. Giovanni Pellegrino

