

## CURRICULUM VITAE

### **Lorenzo Rocchi**

#### **EDUCATION**

- Feb 2016 – Jan 2021                    **Department of Clinical and Movement Neurosciences**  
**UCL Queen Square Institute of Neurology, University College**  
**London**  
PhD student
- Oct 2014 – Apr 2015                    **Institute of Psychiatry, Psychology, and Neuroscience, KCL, London**  
PhD student
- June 2009 - June 2014                    **University of Rome "Sapienza"**  
SpR in Clinical Neurophysiology at the Department of Neurology and  
Psychiatry
- Sep 2001- Jul 2007                    **University of Rome "Sapienza", Policlinico Umberto I**  
Degree in Medicine and Surgery, 110/110 cum Laude
- Sep 1996- Jul 2001                    Secondary School Focusing on Scientific Subjects and Computer  
Science; final mark: 100/100

#### **EMPLOYMENT HISTORY**

- Mar 2024 – present time                    **Department of Medical Sciences and Public health, University of**  
**Cagliari**  
Associate professor of neurology
- Jan 2022 – present time                    **Department of Basic and Clinical Neuroscience, Institute of**  
**Psychiatry, Psychology and Neuroscience, King's College London**

	Visiting Senior Lecturer
Apr 2021 – present time	<b>Neurology Unit, University Hospital of Cagliari</b> Consultant Neurologist
Mar 2021 – Feb 2024	<b>Department of Medical Sciences and Public health, University of Cagliari</b> Assistant professor of neurology
Nov 2020 – Nov 2021	<b>Department of Human Neuroscience, University of Rome “Sapienza”</b> Visiting research fellow
Jan 2020 – Jan 2021	<b>Department of Clinical and Movement Neurosciences, UCL Queen Square Institute of Neurology, University College London</b> Honorary senior clinical research associate
May 2015 – Dec 2019	<b>Department of Clinical and Movement Neurosciences, UCL Queen Square Institute of Neurology, University College London</b> Senior clinical research associate
Sep 2013 - Sep 2014	<b>Sobell Department of Motor Neuroscience and Movement Disorders, UCL, London</b> Visiting research fellow

### **PROFESSIONAL MEMBERSHIPS**

- Ordine provinciale di Roma dei medici chirurghi e degli odontoiatri (registration number M56910)
- General Medical Council (full registration with license to practice, registration number 7498615)

### **MEMBERSHIP OF EDITORIAL BOARDS, SCIENTIFIC COMMITTEES AND NETWORKS**

October 2022 – present time	Associate Editor for Frontiers in Neuroscience, section Neural Technology
August 2022 – present time	Review editor for Frontiers in Neurology, section Movement Disorders
May 2022 – present time	Member of the study group on electroencephalography and magnetoencephalography of the Italian Society of Clinical Neurophysiology
January 2022 – present time	Member of the study group on transcranial magnetic stimulation of the Italian Society of Clinical Neurophysiology
August 2021 - present time	Member of the Movement Disorder Task Force on Clinical Neurophysiology - Jerk-like MD / Myoclonus Subgroup
June 2021 - present time	Member of the Italian Academy for the study of Parkinson's disease and movement disorders (LIMPE-DISMOV)
June 2021 – present time	Member of the Italian Society of Neurology (SIN)
May 2020 - present time	Editorial Board Member of <i>Brain Sciences</i> (ISSN 2076-3425)

## **LANGUAGE SKILLS**

- Italian (mother tongue)
- English: English Speakers of Other Languages - Certificate in Advanced English (ESOL - CAE): 29/07/2008, Grade A
- International English Language Testing System (IELTS): 08/11/2014, overall score 8

## **AWARDS AND HONOURS**

Mar 2025	Italian National Scientific Qualification for Full Professor of Neurology
Jan 2021	PhD award. Thesis title: “Sensorimotor integration in dystonia: pathophysiology and possible non-invasive approaches to therapy”. Department of Clinical and Movement Neurosciences UCL Queen Square Institute of Neurology, University College London
Sep 2020	Italian National Scientific Qualification for Associate Professor of Neurology

- Jul 2014                      Medical specialization award. Thesis title: "Visuomotor integration in healthy subjects and in patients with photoparoxysmal response".  
University of Rome "Sapienza"  
Final Mark 70/70 cum Laude
- Jul 2007                      Medical degree award. Thesis title: "Visual evoked potentials modulation during direct current cortical polarization".  
University of Rome "Sapienza"  
Final Mark 110/110 cum Laude

## **CLINICAL EXPERIENCE**

My clinical specialization is in Clinical Neurophysiology as a registrar between 2009 and 2014 when I moved to the UK to develop further skills in Prof John Rothwell's lab. In addition to Neurology, my formal training involved recording and interpreting (as a senior SpR often without consultant supervision) electromyography, nerve conduction studies, electroencephalography with various activation procedures, evoked potentials and blink reflexes.

I have had UK NHS experience as a clinician at UCLH, doing neurology outpatients clinics both at specialty Registrar and at consultant level. I have also done regular clinical shifts in the Neurorehabilitation Unit of the Wellington Hospital in London.

I currently work as a consultant neurologist and neurophysiologist at the General University Hospital in Cagliari, Italy.

## **TEACHING AND ACADEMIC COORDINATION**

### University of Cagliari

#### 1) Academic coordination

- Member of the Organizing Committee of the local School of Specialization in Neurology
- Member of the Board of the local School of Specialization in Neurology

- Coordinator of the following Integrated Courses

- Motor activity in disease III (Specialist degree course in Preventive and Adapted Motor Activities)
- Techniques for evoked potentials exploration (Degree course in Clinical Neurophysiology Techniques)
- Techniques for functional exploration of the autonomic nervous system (Degree course in Clinical Neurophysiology Techniques)
- Techniques for electromyographic recording and movement analysis (Degree course in Clinical Neurophysiology Techniques)
- Neurosciences (Degree course in Healthcare)

## 2) Formal teaching activity

- Basic and clinical aspects of evoked potentials (16h, Degree Course in Clinical Neurophysiology Techniques, academic year 2021-2022, 2022-2023, 2024-2025)
- Basic and clinical aspects of the autonomous nervous system (16h, Degree Course in Clinical Neurophysiology Techniques, academic year 2021-2022, 2022-2023, 2024-2025)
- Basic and clinical aspects of electromyography and nerve conduction studies (24h, degree Course in Clinical Neurophysiology Techniques, academic year 2021-2022, 2022-2023, 2024-2025)
- Neurology and neurosurgery (10h, Specialist degree Course in Medicine and Surgery, academic year 2022-2023, 2023-2024, 2024-2025)
- Neurology (8h, Degree Course in Techniques of Medical Radiology, Imaging and Radiotherapy, academic year 2022-2023, 2023-2024)
- Experimental neurophysiology (8h, Degree Course in Clinical Neurophysiology Techniques, academic year 2023-2024, 2024-2025)
- Applied neurology (8h, Degree Course in Clinical Neurophysiology Techniques, academic year 2023-2024, 2024-2025)

- Neurological disorders with elements of psychiatry (36h, Specialist Degree Course in Preventive and Adapted Motor Activities, academic year 2023-2024)
- Neurology (20h, Specialist Degree Course in Dentistry and Dental Prosthetics, academic year 2023-2024, 2024-2025)
- Teaching activity in the School of Specialization in Neurology (academic year 2021-2022, 2022-2023, 2023-2024, 2024-2025)

3) Supervision for the following medical degree theses:

- Non-invasive recording of cerebellar electrical activity related to motor control of the upper limb (July 2023)

4) Co-supervision for the following medical degree theses:

- Geographic differences in Huntington's disease incidence in Sardinia, Italy (June 2021)
- Upper limb movements in Lewy body dementia: a quantitative analysis (June 2021)
- Sex-related differences in olfactory function and evaluation of possible confounding factors in Parkinson's disease patients (June 2021)
- Effect of olfactory and gustatory dysfunction and motor symptoms on body weight in patients with Parkinson's disease (July 2021)
- Sudden onset, fixed dystonia and acute peripheral trauma as diagnostic clues for functional dystonia (July 2021)
- Influence of the risk profile on clinical expression in Parkinson's disease (July 2021)
- Frontotemporal dementia, C9orf72 gene, and epilepsy (July 2022)
- Frequency of epilepsy in degenerative and vascular dementias (July 2022)
- Risk factors, protective factors and clinical features of Parkinson's disease (July 2022)
- Olfactory hallucinations in Parkinson's disease: frequency and risk factors (July 2022)
- Analysis of drug resistance in epilepsies with structural etiology (July 2022)

5) Supervision of the following theses for the Degree in Clinical Neurophysiology Techniques

- Somatosensory evoked potentials of possible cerebellar origin obtained by stimulation of the median nerve (October 2023)
- Somatosensory evoked potentials of possible cerebellar origin obtained by stimulation of the tibial nerve (October 2023)
- Non-invasive recording of cerebellar electrical activity related to ballistic movement (October 2023)
- Evaluation of the relationship between cortical excitation and inhibition via magnetic stimulation transcranial and electroencephalography (October 2023)
- Non-invasive recording of cerebellar electrical activity related to motor control of the upper limb (October 2023)
- Study of neurophysiological biomarkers in patients with Parkinson's disease in the prodromal Phase (October 2024)
- Effects of sodium channel blockers on the strength–duration behaviour of human motor cortical neurones (October 2024)

University College London

1) Undergraduate education in the form of bedside teaching as well as lecturing on clinical neurology and clinical neurophysiology topics

2) Formal supervision of undergraduate and postgraduate students in their laboratory or library projects:

2015 – 2016: BSc. Research project: *Central and peripheral factors in motor evoked potential variability and response to continuous theta-burst stimulation of the human motor cortex.*

2016 – 2017: iBSc. Research project: *Intracortical Inhibition Tested with Selective Inputs to the Primary Motor Cortex in Healthy Subjects using a Controllable Transcranial Magnetic Stimulation Device*

2017 – 2018: iBSc. Research project: *Directional Specificity of Transcranial Magnetic Stimulation Investigated by Transcranial and Somatosensory Evoked Potentials*

2017 – 2018: MSc. Library project: *Tremor: a common symptom but an unknown mechanism*

2017 – 2018: MSc. Research project: *The role of the pre-supplementary motor area in motor inhibition investigated by combined transcranial magnetic stimulation and electroencephalography*

2018 – 2019: BSc. Research project: *Effect of Carmabazepine and Lacosamide on human motor cortex excitability: a combined study with controllable transcranial magnetic stimulation and electroencephalography*

2018 – 2019: iBSc. Research project: *Neurophysiological investigations of motor learning in healthy Subjects*

2018 – 2019: Master's degree in Cognitive Neuroscience and Clinical Neuropsychology (Italy): *Inhibitory processes in Parkinson's disease: a TMS-EEG investigation*

2019 – 2020: iBSc. Research project: *A novel approach to investigating changes in cortical activity following motor learning using TMS-EEG*

3) Organization and running of several neurophysiology workshops in collaboration with Rogue resolutions/Brainbox ltd:

- Instructor - Brainbox workshop “Neurophysiological basis of transcranial magnetic stimulation”  
(February 2016, July 2016, April 2017, September 2017, March 2018)
- Instructor - Brainbox workshop “Advanced TMS Techniques: TMS-EEG Acquisition & Analysis”  
(November 2019)
- Course director - Brainbox workshop “Fundamentals and Applications of transcranial magnetic stimulation” (November 2018, November 2019, March 2021)

#### University of Rome “Sapienza”

- 1) Teaching activity in the context of the PhD in Clinical-Experimental Neuroscience and Psychiatry, at the Department of Human Neuroscience of the University of Rome “Sapienza” (years 2019 and 2020).

#### King’s College London

- 1) Co-supervision for the following theses
  - Investigating aperiodic activity and cognitive performance in schizophrenia: A Resting-state EEG Study (Early Intervention in Psychosis MSc, 2023-2024)
  - Interhemispheric signal propagation in schizophrenia (MSc, Department of Psychology, University of Oslo, 2023-2024)

### **GRANTS AND FELLOWSHIPS**

- 2013 Role of the cerebellum in the pathophysiology of Levodopa-induced dyskinesias  
EFNS Scientific Fellowship (€ 24k)
- 2020 Repetitive somatosensory stimulation in focal hand dystonia: a study on inhibitory circuitry plasticity of the somatosensory system and primary motor cortex  
Dystonia Coalition Career Development Award (\$ 40k)
- 2021 Behavioural and electrophysiological markers of inhibition in Parkinson’s disease: clinical and pharmacological implications

- Premio Segala per la ricerca sulla Malattia di Parkinson (€ 50k)
- 2023 Perfusion and neuro-functional evaluation of new methods for protection from Ischemia reperfusion injury in microvascular reconstructive post-oncologic surgery Start Up Project, University of Cagliari (€ 100k)
- 2023 Modulating the cerebellar activity through transcranial alternating current stimulation to improve motor symptoms in movement Progetti di Ricerca di Rilevante Interesse Nazionale (PRIN) (€ 245k)

### **OTHER ACTIVITIES**

- Management of the expenditure specifications for the clinical neurophysiology service at the University Hospital of Cagliari (approximately 40k €/year)
- Examiner for PhD theses (Campus Bio-medico University, Rome; University of Genova)
- Scientific consultancy for the following companies: Autifony Therapeutics ltd, GW Pharmaceuticals PLC, Simbec-Orion Ltd, SK Life Science Inc, Synendos Therapeutics AG, The Science Behind Ltd.

### **RELEVANT TECHNICAL SKILLS**

- MATLAB and related toolboxes for EEG processing (EEGlab, TESA, Fieldtrip)
- Microsoft Windows Operating System and its most common applications (Word, Excel, PowerPoint)
- Neurophysiological data acquisition and analysis (Signal, Spike2 by Cambridge Electronic Design)
- Statistics packages (IBM SPSS Statistics)
- Neuronavigation Systems (SofTactic Optic by EMS; Brainsight by Rogue Research Inc.)
- Kinematics data acquisition and analysis (SMART-DX System by BTS Bioengineering)
- Stimulus presentation and experimental design (Stim<sup>2</sup> Software by Neuroscan)
- Scientific plotting softwares (Origin, Sigmaplot)
- Vector graphics editors (Adobe Illustrator)

### **ACTIVITY AS REVIEWER AND EDITOR**

- 150 reviews for 34 peer-reviewed journals, verified on <https://www.webofscience.com/wos/author/record/248050> research grants review for the following institutions: National Institute of Neurological Disorders and Stroke (NINDS; NIH, USA), Swiss National Science Foundation (SNSF)
- 23 edited paper for 1 peer-reviewed journal, verified on <https://www.webofscience.com/wos/author/record/248050>
- Guest Editor for the Special Issue "Biomarkers and Novel Therapeutic Approaches for Movement Disorders: State-of-the-Art, Gaps and Perspectives" on Brain Sciences (ISSN 2076-3425)
- Guest Editor for the Special Issue "Advances in the Study of Cortical Excitability, Connectivity and Plasticity by Using TMS-EEG and Other Neurophysiological Techniques" on Brain Sciences (ISSN 2076-3425)

### **RELEVANT INTERNATIONAL CONGRESSES ATTENDANCE (INCLUDING POSTER/ORAL PRESENTATIONS)**

- 2014 – Movement Disorders Society Winter School for young neurologists
- 2017 – International Brain Stimulation Conference, Barcelona, Spain
- 2018 – International Congress of Clinical Neurophysiology, Washington DC, USA
- 2018 – Queen Square Neurology 2018 – Leading Edge Neurology for the Practising Clinician, University College London, UK
- 2018 – Movement Disorders Society International Congress, Hong Kong
- 2019 – HCA Conference "Prolonged Disorders of Consciousness - from scientific discovery to clinical practice: How the discovery that some vegetative patients are aware has changed our practice", London, UK
- 2019 – European Congress on Clinical Neurophysiology, Warsaw, Poland
- 2019 – Movement Disorders Society International Congress, Nice, France
- 2020 – Panelist for "The Journal of Physiology's Virtual Journal Club: Learning Motor Skills Requires the Involvement of Different Areas of the Cerebral Cortex"
- 2021 – Panelist for the Dystonia Coalition Annual Meeting
- 2021 – Speaker at the "Theoretical and practical TMS-EEG course" organized by Brain Products Italy
- 2021 – Speaker at the Sardinian branch congress of the Italian Neurological Society. Presentation title: "The role of neurophysiology in the diagnosis of functional neurological disorders"
- 2021 – Panelist for Brain Stimulation Virtual Journal club: "Disentangling EEG responses to TMS due to cortical and peripheral activations"

- 2021 – Speaker for the Italian GMC congress entitled “Movement disorders: from semiology to clinical diagnosis”. Presentation title: “Tremors”
- 2022 – Speaker for the Higher School of Movement Disorders organized by the Italian Society Parkinson's and Movement Disorders/LIMPE-DISMOV ETS. Presentation title: “Tremor – Phenomenology of main clinical features”
- 2022 – Speaker and teacher at the “8th Science Factory: TMS-EEG Summer School and Workshop”. Presentation title: “Contamination of transcranial evoked responses by auditory and somatosensory evoked potentials”
- 2022 – Speaker at the 52<sup>nd</sup> Congress of the Italian Society for Neurology. Presentation title: “Clinical applications of TMS-EEG”
- 2023 – Speaker at the 9<sup>th</sup> Congress of the Italian Parkinson and Movement Disorders Society. Presentation title: “Neuromodulation: basic mechanisms and rationale for use in movement disorders”
- 2023 – Moderator for the webinar entitled “Myoclonus”, organized by the Italian Parkinson and Movement Disorders Society

### **RELEVANT TRAINING COURSES ATTENDED**

- 2014 – Movement Disorders Society Winter School for young neurologists
- 2016 – Statistical Parametric Mapping, Wellcome Centre for Human Neuroimaging, University College London, London, UK
- 2017 – 3<sup>rd</sup> Science Factory TMS-EEG Summer School, Department of Neuroscience and Biomedical Engineering, Aalto University School of Science, Espoo, Finland
- 2018 – Radboud Summer School “Analyzing Neural Time Series Data”, Radboud Universiteit, Nijmegen, Netherlands
- 2019 – Radboud Summer School “Linear Algebra for Neuroscientists”, Radboud Universiteit, Nijmegen, Netherlands
- 2021 – Udemy Matlab onramp 2020
- 2023 – Udemy Complete neural signal processing and analysis
- 2024 – Udemy Complete linear algebra: theory and implementation in code
- 2024 – Udemy PCA & multivariate signal processing, applied to neural data

### **RESEARCH EXPERIENCE**

My research mostly revolves around the application of neurophysiological techniques in the study of physiology and pathophysiology of neurological disorders and in the intact human. I have specific interest and expertise in the use of transcranial magnetic stimulation, electroencephalography, electromyography and evoked potentials to investigate normal sensorimotor physiology and its derangement in movement disorders.

### **FULL RESEARCH PAPERS**

1. Neurophysiological insights into the pathophysiology of Stiff Person Spectrum Disorders  
Moura J, **Rocchi L**, Zandi M, Balint B, Bhatia KB, Latorre A  
Mov Disord Clin Pract. 2025 Jan 8. doi: 10.1002/mdc3.14328. Online ahead of print.
2. Diagnostic utility of clinical neurophysiology in jerky movement disorders: a review from the MDS Clinical Neurophysiology Study Group  
Latorre A, Ganos C, Hamada M, Phielipp N, **Rocchi L**, Merchant S, Tijssen M, van der Veen S, Chen R  
Mov Disord Clin Pract. 2024 Dec 18. doi: 10.1002/mdc3.14306. Online ahead of print.
3. Trend-analysis reveals real and placebo rTMS effects on addiction craving: a case-control observational study  
Casula EP, Chieco F, Papaioannou M, Frizzarin F, **Rocchi L**, Camporese A  
Front. Psychiatry. Volume 15 - 2024 | doi: 10.3389/fpsyt.2024.1441815
4. Amelioration of focal hand dystonia via low-frequency repetitive somatosensory stimulation  
**Rocchi L**, Latorre A, Menozzi E, Rispoli V, Rothwell JC, Berardelli A, Bhatia KP  
Mov Disord. 2024 Sep 10. doi: 10.1002/mds.30011. Online ahead of print.
5. Frequency-selective suppression of essential tremor via transcutaneous spinal cord stimulation  
Pascual-Valdunciel A, Ibáñez J, **Rocchi L**, Song J, Rothwell JC, Bhatia KP, Farina D, Latorre A  
Mov Disord. 2024 Aug 7. doi: 10.1002/mds.29966. Online ahead of print.
6. Cerebellar Non-Invasive Brain Stimulation: A Frontier in Chronic Pain Therapy

Sveva V, Cruciani A, Mancuso M, Santoro F, Latorre A, Monticone M, **Rocchi L**  
J. Pers. Med. 2024, 14(7), 675; <https://doi.org/10.3390/jpm14070675>

7. Reduced TMS-evoked EEG oscillatory activity in cortical motor regions in patients with post-COVID fatigue  
Casula EP, Esposito R, Dezi S, Ortelli P, Sebastianelli L, Ferrazzoli D, Saltuari L, Pezzopane V, Borghi I, **Rocchi L**, Oliviero A, Ajello V, Koch G, Versace V  
Clin Neurophysiol. 2024 Jun 19:165:26-35. doi: 10.1016/j.clinph.2024.06.008. Online ahead of print.
8. Investigating cortical excitability and inhibition in patients with schizophrenia: a TMS-EEG study  
Santoro V, Di Hou M, Premoli I, Belardinelli P, Biondi A, Carobin A, Puledda F, Michalopoulou PG, Richardson M, **Rocchi L\***, Shergill S\*  
Brain Res Bull. 2024 Jun 15:212:110972. doi: 10.1016/j.brainresbull.2024.110972. Epub 2024 May 6.  
\* Joint last author
9. The past, current and future research in cerebellar TMS evoked responses – a narrative review  
Fong PY, Rothwell JC, **Rocchi L**  
Brain Sci. 2024 Apr 26;14(5):432. doi: 10.3390/brainsci14050432.
10. Outcomes and safety of endovascular treatment from 6 to 24 hours in patients with a pre-stroke moderate disability (mRS 3): a multicenter retrospective study  
Maestrini I, **Rocchi L**, Diana F, Requena Ruiz M, Elosua-Bayés I, Ribo M, Abdalkader M, Klein P, Gabrieli JD, Alexandre A, Pedicelli A, Lacidogna G, Ciullo I, Marnat G, Cester G, Broccolini A, Nguyen TN, Tommasello A, Garaci F, Diomedi M, Da Ros V.  
J Neurointerv Surg. 2024 May 29:jnis-2024-021634. doi: 10.1136/jnis-2024-021634. Online ahead of print.
11. Changes in cortical activation by transcranial magnetic stimulation due to coil rotation are not attributable to cranial muscle activation  
Mancuso M, Cruciani A, Sveva V, Casula E, Brown KE, Di Lazzaro V, Rothwell JC, **Rocchi L**  
Brain Sci. 2024, 14(4), 332; <https://doi.org/10.3390/brainsci14040332>

12. Casula EP, Pezzopane V, Roncaioli A, Battaglini L, Rumiati R, Rothwell J, **Rocchi L\***, Koch G\*  
Real-time cortical dynamics during motor inhibition  
Sci Rep. 2024 Apr 3;14(1):7871. doi: 10.1038/s41598-024-57602-0.  
\* Joint last author
13. Changes in cerebellar output abnormally modulates cortical myoclonus sensorimotor hyperexcitability  
Latorre A, **Rocchi L**, Paparella G, Manzo M, Bhatia KP, Rothwell JC  
Brain. 2024 Apr 4;147(4):1412-1422. doi: 10.1093/brain/awad384.
14. Somatosensory input in the context of transcranial magnetic stimulation coupled with electroencephalography: an evidence-based overview  
Mancuso M, Cruciani A, Sveva V, Casula EP, Brown K, Rothwell JC, Di Lazzaro V, Koch G, **Rocchi L**  
Neurosci Biobehav Rev. 2023 Oct 25:105434. doi: 10.1016/j.neubiorev.2023.105434. Online ahead of print.
15. Rethinking the neurophysiological concept of cortical myoclonus  
Latorre A, Belvisi D, Rothwell JC, Bhatia KP, **Rocchi L**  
Clin Neurophysiol. 2023 Dec;156:125-139. doi: 10.1016/j.clinph.2023.10.007.
16. Reply to: "Reflecting the causes of variability of EEG responses elicited by cerebellar TMS"  
Fong PY, Spampinato D, Michell K, Mancuso M, Brown K, Ibanez J, Di Santo A, Latorre A, Bhatia K, Rothwell J, **Rocchi L**  
Neuroimage. 2023 Sep 26;281:120392. doi: 10.1016/j.neuroimage.2023.120392. Online ahead of print.
17. Postural instability and risk of falls in patients with Parkinson's disease treated with deep brain stimulation: a stabilometric platform study  
Leodori G, Santilli M, Modugno M, D'Avino M, De Bartolo MI, Fabbrini A, **Rocchi L**, Conte A, Fabbrini G, Belvisi D  
Brain Sci. 2023 Aug 25;13(9):1243. doi: 10.3390/brainsci13091243.
18. Using TMS-EEG to assess the effects of neuromodulation techniques: a narrative review

Cruciani A, Mancuso M, Sveva V, Maccarrone D, Todisco A, Motolese F, Santoro F, Pilato F, Spampinato DA, **Rocchi L**, Capone F  
Front Hum Neurosci. 2023 Aug 14;17:1247104. doi: 10.3389/fnhum.2023.1247104. eCollection 2023.

19. Machine learning based classification to disentangle EEG responses to TMS and auditory input  
Cristofari A, De Santis M, Lucidi S, Rothwell J, Casula EP, **Rocchi L**  
Brain Sci. 2023 May 27;13(6):866. doi: 10.3390/brainsci13060866.
20. EEG responses induced by cerebellar TMS at rest and during visuomotor adaptation  
Fong PY, Spampinato D, Michell K, Mancuso M, Brown K, Ibanez J, Di Santo A, Latorre A, Bhatia K, Rothwell J, **Rocchi L**  
Neuroimage. 2023 Jul 15;275:120188. doi: 10.1016/j.neuroimage.2023.120188. Epub 2023 May 23.
21. Motor potentials evoked by transcranial magnetic stimulation: interpreting a simple measure of a complex system  
Spampinato DA, Ibanez J, **Rocchi L**, Rothwell JC  
J Physiol. 2023 Jul;601(14):2827-2851. doi: 10.1113/JP281885. Epub 2023 Jun 8.
22. Cerebellar noninvasive neuromodulation influences the reactivity of the contralateral primary motor cortex and surrounding areas: a TMS-EMG-EEG study  
**Rocchi L**, Spampinato DA, Pezzopane V, Orth M, Bisiacchi PS, Rothwell JC, Casula EP  
Cerebellum. 2023 Jun;22(3):319-331. doi: 10.1007/s12311-022-01398-0. Epub 2022 Mar 30.
23. Pathophysiology and treatment of functional paralysis: insight from transcranial magnetic stimulation  
Pisano G, Ercoli T, Latorre A, **Rocchi L**  
Brain Sci. 2023 Feb 18;13(2):352. doi: 10.3390/brainsci13020352.
24. Habituation deficit of visual evoked potentials in migraine patients with hypermobile Ehlers-Danlos syndrome  
Maestrini I, **Rocchi L**, Puledda F, Viganò A, Giuliani G, Jannini TB, Celletti C, Altieri M, Camerota F, Toscano M, Di Piero V

Front Neurol. 2023 Mar 9;14:1072785. doi: 10.3389/fneur.2023.1072785. eCollection 2023.

25. TMS Combined with EEG: Recommendations and Open Issues for Data Collection and Analysis  
Hernandez-Pavon JC, Veniero D, Bergmann TO, Belardinelli P, Bortoletto M, Casarotto S, Casula E, Farzan F, Fecchio M, Julkunen P, Kallioniemi E, Lioumis P, Metsomaa J, Miniussi C, Mutanen T, **Rocchi L**, Rogasch NC, Shafi MM, Siebner HR, Thut Gregor, Zrenner C, Ziemann U, Illmoniemi RJ  
Brain Stimul. 2023 Mar-Apr;16(2):567-593. doi: 10.1016/j.brs.2023.02.009. Epub 2023 Feb 23.
26. Validation of a guideline to reduce variability in diagnosing cervical dystonia  
Defazio G, Belvisi D, Comella C, Hallett M, Jinnah HA, Cimino P, Latorre A, Mascia MM, **Rocchi L**, Gigante AF, Ercoli T, Berardelli A  
J Neurol. 2023 May;270(5):2606-2612. doi: 10.1007/s00415-023-11585-6. Epub 2023 Feb 15.
27. Assessing awareness in severe Alzheimer's disease  
Huntley J, Bor D, Deng F, Mancuso M, Mediano P, Naci L, Owen AM, **Rocchi L**, Stermin A, Howard R  
Front Hum Neurosci. 2023 Feb 1;16:1035195. doi: 10.3389/fnhum.2022.1035195. eCollection 2022.
28. Standard intensities of transcranial alternating current stimulation over the motor cortex do not entrain corticospinal inputs to motor neurons  
Ibanez J, Zicher B, Brown KE, **Rocchi L**, Casolo A, Del Vecchio A, Spampinato DA, Vollette CA, Rothwell JC, Baker SN, Farina D  
J Physiol. 2023 Aug;601(15):3187-3199. doi: 10.1113/JP282983. Epub 2022 Jul 13.
29. Simultaneous transcranial electrical and magnetic stimulation boost gamma oscillations in the dorsolateral prefrontal cortex  
Maiella M, Casula EP, Borghi I, Assogna M, D'Acunto A, Pezzopane V, Mencarelli L, **Rocchi L**, Pellicciari MC, Koch G  
Sci Rep. 2022 Nov 12;12(1):19391. doi: 10.1038/s41598-022-23040-z.
30. The effect of coil orientation on the stimulation of the pre-supplementary motor area: a combined TMS and EEG study

Casula EP, Leodori G, Ibanez J, Benussi A, Rawji V, Tremblay S, Latorre A, Rothwell JC,  
**Rocchi L**

Brain Sci. 2022 Oct 6;12(10):1358. doi: 10.3390/brainsci12101358.

31. The effect of stimulation frequency on transcranial evoked potentials

Leodori G, **Rocchi L**, Mancuso M, De Bartolo MI, Baione V, Costanzo M, Belvisi D, Conte A,  
Defazio G, Berardelli A

Transl Neurosci. 2022 Aug 5;13(1):211-217. doi: 10.1515/tnsci-2022-0235. eCollection 2022 Jan  
1.

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