

# CARLO MINIUSI

## Curriculum vitae

### CONTACT/WORK ADDRESS

Center for Mind/Brain Sciences – CIMEC, University of Trento | Centro Interdipartimentale Mente/Cervello - CIMEC, Università di Trento  
 Corso Bettini, 31, 38068 Rovereto TN, Italy - Via Delle Regole 101, 38123 Mattarello (TN), Italy  
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 People web: <https://webapps.unitn.it/du/en/Persona/PER0053912/Curriculum>  
 Group web: <https://www.cimec.unitn.it/en/CoNeCo>

### WORK - RESEARCH EXPERIENCE - PRESENT

- 2016 June–present. **Full Professor of Physiology:** Human Neurophysiology (SSD BIO/09; 05/D1). Center for Mind/Brain Sciences – **CIMEC** & Centre for Medical Sciences – **CISMed, University of Trento**, Rovereto TN Italy.
- 2023 December–present. **Member** of the International Advisory Board for the Philab at the Department of Philosophy Università degli Studi di Milano.
- 2023 October–present. **Member** of the International Scientific Advisory Board for the Neuroscience and Neuromodulation Center (NNC) at the Institute for Medical Research, University of Belgrade.
- 2022 September–present. Scientific Board **Member** Italian Society of Psychophysiology and Cognitive Neuroscience.
- 2021 September–present. Executive Board **Member** Master II livello Intelligenza Artificiale, Mente, Impresa. Università di Brescia.
- 2021 July–present. **Member** of the University Trento Commission for Open Science.
- 2021 January–present. **President** and Kickoff Committee **Member** of the Italian Reproducibility Network ITRN <https://www.itrn.org/home-page>.
- 2017 September–present. **Coordinator** of the Think Open @ CIMEC project an Open Science initiative.
- 2016 September–present. **Member** of the PhD course in “Cognitive and Brain Sciences” University of Trento, Rovereto TN Italy.
- 2016 June–present. **Coordinator** of Transcranial Brain Stimulation (TBS) lab/facility at CIMEC Functional Neuroimaging Laboratories, Via delle Regole 101 – 38123, Mattarello TN Italy. <http://www.cimec.unitn.it/en/180/transcranial-brain-stimulation-lab-tbs-lab>.

**Bibliometric data** Publications in 25 years academic age (1997-2023): **202** in international peer reviewed journals. **H-index:** Google Scholar: 88; Scopus: 71; Web of Science: 67. Sum of the time cited: Google Scholar: ~32.000; Scopus: ~22.000; Web of Science: ~20.000. Editor of 3 international books. Author or co-author of several national and international book chapters and more than ~600 abstracts, proceedings, presentations at Congresses / Symposia / Seminars / Workshops / Schools.

Research published in leading neuroscience and clinical neurology outlets, including: Nature Neuroscience; Trends in Cognitive Sciences; Brain; The Journal of Neuroscience; Current Biology; Annals of Neurology; The Neuroscientist; Neuroscience & Biobehavioral Reviews; Journal of Cognitive Neuroscience; Neuroimage; Human Brain Mapping; Neurology; Journal of Neurology, Neurosurgery, and Psychiatry.

Indexed in the “Top Italian scientists”; subject field: Neurosciences. Indexed in the world top 2% scientists ranking by Stanford University; subject field: Neurology & Neurosurgery (2022).

### Researcher numbers

Orcid code <http://orcid.org/0000-0002-5436-4745>  
 Google Scholar <https://scholar.google.it/citations?user=AHZsK0IAAAAJ&hl=it>  
 Scopus <https://www.scopus.com/authid/detail.uri?authorId=6701382246>  
 Web of Science <http://www.researcherid.com/rid/E-7602-2010>



### Areas of research

SH4 The human mind and its complexity: SH4\_6 Learning, memory; cognition in ageing; SH4\_5 Attention, perception, action, consciousness; SH4\_4 Neuropsychology.

LS4 Physiology LS4\_4 Fundamental mechanisms underlying ageing.

LS5 Neurosciences LS5\_5 Neural bases of cognitive processes (e.g., memory, learning, attention); LS5\_7 Neurological disorders (e.g., neurodegenerative diseases)

**Keywords:** cognitive neuroscience; cognitive plasticity; neuroplasticity; neuromodulation, learning; memory; behaviour; connectivity; human neurophysiology; electrophysiology - EEG; non-invasive/transcranial brain stimulation – NIBS/TBS; transcranial magnetic stimulation – TMS; transcranial electrical stimulation – tES: tDCS; tACS; tRNS; coregistration TMS-EEG; multimodal imaging.

**Publication areas:** Neuroscience; Clinical Neurology; Neuroimaging; Behavioural Sciences; Psychology Experimental.

## TRACK RECORD

Carlo Miniussi was educated in Padua, where he received his MSc in Experimental Psychology in 1994, and in Verona, where he was awarded a PhD in Neuroscience in 1999. He has been a fellow at the Department of Experimental Psychology at Oxford University 1997-2000. In 2000 he moved to the IRCCS St. John of God in Brescia, Italy, as chief of the Neurophysiology Laboratory and the Neuropsychology Laboratory from 2001 and was appointed aggregate Professor of Neurophysiology (2001), at Brescia University. In 2002 he became scientific coordinator of the Neuropsychophysiology research line at the same IRCCS. In 2005 he was appointed Associate Professor of Human Physiology and took up a chair in the School of Medicine, University of Brescia. At the same time, he established the Cognitive Neuroscience Section comprising the Neurophysiology, Neuropsychology and Sleep laboratories. From the 2005 to 2019 coordinated the Cognitive Neuroscience Section at IRCCS St. John of God Research Hospital. From 2007 to 2016 he has been a member of the Ethical Committee of the International School for Advanced Studies SISSA, in Trieste, as well as long term collaborator Faculty Member, Sector of Cognitive Neuroscience for the same school. In the 2011 he becomes President elect of Italian society of Psychophysiology (2013-2015) and Research Associate of Neuroenhancement for Inequalities in Elder Lives, at the Institute of Neuroscience, Trinity College Dublin (2017). In 2013 he was appointed full Professor of Human Physiology at the University of Brescia, where he has been till May 2016. In 2015 he has been appointed by Italian National Agency for the Evaluation of Universities and Research Institutes: member of the Group of Experts for the Evaluation of Universities in the Biological area. In 2016 he has been a Visiting Professor, at Sydney University. From 2016 to 2022 he has been Director of the Center for Mind/Brain Sciences - CIMeC, University of Trento and member of several commissions of trust.

Carlo Miniussi is an expert in the study of cognitive functions and in the use of electroencephalography and non-invasive brain stimulation techniques to explore and understand the neural systems that support cognitive functions in the human brain. He has extensive experience in the development and application of behavioural and cognitive paradigms. He has also practical working experience with multiple neuroimaging and neurophysiological methodologies (EEG, TMS, tES), as well as integrated brain functional imaging (co- registration TMS-EEG; tDCS-EEG).

In the last years he has published seminal papers on a) mechanisms of transcranial magnetic stimulation and transcranial electrical stimulation, b) co-registration of transcranial stimulation and EEG, c) brain stimulation in cognitive neurorehabilitation and d) brain stimulation in the understanding of cognitive functions. He has successfully pursued translational research between plasticity studies in the laboratory and real-world interventions. Examples of this work are his interventions with brain stimulation in dementia and in neuropsychiatry. In this respect he has been invited to be guest editor for a special issue of Neuropsychological Rehabilitation on “Non-invasive brain stimulation: new prospects in cognitive neurorehabilitation” (2011). Topic host editor “Manipulative Approaches to Human Brain Dynamics” (2013). For European Psychologist “Non-invasive brain stimulation approaches in Psychology” (2015). Editor for a reference book for “Transcranial Brain Stimulation” for CRC Taylor press. He has been part of a group of experts who produced a consensus papers on the efficacy of brain stimulation in cognitive neurorehabilitation (2008) and on combining transcranial stimulation with neuroimaging (2009, 2016, 2023). He was also among a group of experts (Safety of TMS Consensus Group) preparing the Safety, Ethical Considerations, and Application Guidelines for the Use of Transcranial Magnetic Stimulation in Clinical Practice and Research (2009, 2021) and TMS questionnaire (2022). A group of the International Federation of Clinical Neurophysiology Committee to prepare a report on “Non-invasive electrical and magnetic stimulation of the brain, spinal cord, roots and peripheral nerves: basic principles and procedures for routine clinical and research application (2015). “A technical guide to tDCS, and related non-invasive brain stimulation tools” (2016). As well as safety of tES Consensus Group, preparing the safety guidelines for the application of weak transcranially applied electric currents (2017) and neuroenhancement (2022). Digitalized transcranial electrical stimulation (2022).

The core of his present activity is driven by the goal to understand if cortical plasticity (cognitive plasticity) can be induced and manipulated by means of non-invasive brain stimulation in healthy and pathological adult brains, to understand what is the relation between induced synaptic plasticity and cognitive plasticity. He is also interested in the understanding of how cognitive plasticity can be sustained by the activity of a “functional neuronal network” i.e., effective connectivity, and how such connectivity can predicts/underlines the subject behaviour.

## ACADEMIC QUALIFICATIONS

1999 February 19<sup>th</sup>. Awarded (discussed) Doctor of Philosophy (**PhD**) in **Neuroscience** "Dottorato di ricerca" 4 years course. University of Verona, School of Medicine, Verona, Italy.

1994 July 6<sup>th</sup>. Master of Science degree (**MSc**) in **Experimental Psychology** "Laurea specialistica ora magistrale", University of Padua, School of Psychology, Padua, Italy. [Bachelor degree (first degree, undergraduate degree) in Psychology University of Padua, School of Psychology, Padua, Italy.]

## WORK - RESEARCH EXPERIENCE - PAST

2018 June–2022 December. Italian **Coordinator** for the India-Trento Programme for Advanced Research – ITPAR. Scientific and Technological Cooperation between the Republic of India Department of Science & Technology and University of Trento, Italy. <https://www.unitn.it/en/ateneo/54947/india-trento-programme-for-advanced-research>

**2016** October–**2022** September. **Director/Head** Center for Mind/Brain Sciences – CIMeC, University of Trento, Rovereto TN Italy and Member Council of Department Directors.

2016 February – 2019. Visiting Professor, School of Psychology, Faculty of Science, Sydney University, Sydney, Australia.

2014 November– 2016 October. Member of the PhD course in "Psychology, Linguistics and Cognitive Neuroscience" and "Neuroscience" Bicocca University, Milan Italy.

**2013** June – **2016** May. **Full Professor of Physiology: Human Neurophysiology.** Neuroscience Section, Department of Clinical and Experimental Sciences, School of Medicine. **University of Brescia**, Brescia Italy.

2012 July – 2012 November. Research Affiliate, Faculty of Science, Sydney University, Sydney Australia.

2011 October – 2012 April. Visiting Professor, School of Psychology Trinity College Institute of Neuroscience, Dublin Ireland.

2011 July–2017 December. Research Associate of the Neuroenhancement for Inequalities in Elder Lives NIEL Trinity College Institute of Neuroscience, Dublin, Ireland

2008 January – 2015 December. Long term collaborator Faculty Member, Sector of Cognitive Neuroscience, International School for Advanced Studies (ISAS/SISSA), Trieste Italy.

**2005** March – **2013** May. **Associate Professor of Human Physiology**, Neurophysiology, Department of Biomedical Sciences and Biotechnologies, Physiology Section, School of Medicine, **University of Brescia**, Brescia Italy.

2005 January – 2015 February. Coordinator for the "Psychologists Internship", at The Saint John of God hospital and Clinical Research Centre – IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia Italy.

2002 January – 2005 February. Coordinator of a full research line "Neurophysiology" at The Saint John of God Clinical Research Centre – IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia Italy.

2001 November – 2005 February. Aggregate Professor of Neurophysiology, School of Medicine, University of Brescia, Brescia Italy.

2001 January – 2008 February. Head of the Neuropsychology laboratory, The Saint John of God Clinical Research Centre – IRCCS Centro San Giovanni di Dio Fatebenefratelli, Brescia Italy.

2000 January – 2013 December. Associate Member of the Department of Neurological, Neuropsychological Morphological and Motor Sciences, Physiology Section, School of Medicine, University of Verona, Verona Italy.

**2000** February – **2019** December. **Head of the Cognitive Neuroscience Section at IRCCS.** Translational research fellowship from the Italian Health Ministry. **The Saint John of God Clinical Research Centre** – IRCCS Centro San Giovanni di Dio Fatebenefratelli, Via Pilastroni 4 - 25125, Brescia, Italy

**1997** November – **2000** January. **Research Associate and Postdoctoral Research Associate**, Brain & Cognition Laboratory, Department of Experimental Psychology, **University of Oxford**, Oxford United Kingdom. Coordinator: Prof A.C. Nobre.

**1994** November – **1997** October. **PhD student** with fellowship, Department of Neurological Sciences and Vision, Human Physiology Section, School of Medicine, University of Verona, Verona Italy. Advisor: Prof C.A. Marzi.

1993 March – 1994 October. Internship, Department of Neurological Sciences and Vision, Human Physiology Section, School of Medicine, University of Verona, Verona Italy. Advisors: Prof C.A. Marzi and Dr M. Prior.

#### PRIZES – AWARDS - HONOURS

2013 Behavioural Neurology Highlights in the Field -selected as- Paper presented at the American Academy of Neurology.

2012 Honorary Member of the Italian Neuropsychological Association.

2011 Editor's Choice Award for the best paper published in Human Brain Mapping.

2010 June Qualification for Full Professorship of Human Physiology, by a National committee at the School of Medicine, Università degli Studi di Catanzaro, Italy.

2004 January Qualification for Associate Professorship of Human Physiology, by a National committee at the School of Medicine, Università degli Studi di Sassari, Italy.

2001 September Award best scientific contribution; 3rd Congress of the AFaR.

1997 Project award; 12 months' grant to examining the neurophysiological and behavioural correlates of attention from the USL Verona, Italy.

1996 Travel award; NATO, Advanced Study Institute; to attend "The Role of the Humans Corpus Callosum in Sensory Motor Integration: Anatomy, Physiology and Behaviour; Individual Differences and Clinical Application".

1996 Travel award; European Neuroscience Meeting.

1996 Travel grant award; Euroconference: Processing Modes in the mind/brain, at the International School for Advanced Studies Trieste, Italy.

1995 Award best scientific contribution poster; Congress of the Italian Society of Neuroscience (SIN).

1995 Award best scientific contribution from the Italian Society of Neuropsychology (SINP).

1994 Awarded a four-year Italian Post-Graduate Research Scholarship.

#### TEACHING EXPERIENCE

##### *Present*

- Coordinator of the "Fisiologia Umana" course and teaching "Neurofisiologia Umana" at the "Corso di Laurea Magistrale a ciclo unico" in Medicina e Chirurgia Università di Trento e Università di Verona (from 2021); ● "Brain Stimulation and Multimodal Electrophysiological Recording" at the Master's course (Corso di Laurea Magistrale) in Cognitive Science at CIMEC (from 2023); ● "Metodi di indagine in neuroscienze cognitive e cliniche" Corso di Laurea Magistrale in Psicologia percorso Neuroscienze DiPSCo, Università di Trento, Rovereto TN Italy (from 2017).

- "Non-invasive brain stimulation" (from 2016), "Open Science" and "Publish understanding/Tird mission" (fom 2023) courses at the PhD course in "Cognitive and Brain Sciences" University of Trento, Rovereto TN Italy.

##### *Past*

Undergraduate: ● "Neural Foundations of Human Behaviour" at the Master's course Cognitive Neuroscience at Center for Mind/Brain Sciences – CIMEC (2016-2018); ● "Foundations of Brain Imaging" at the Master's course (Corso di Laurea Magistrale) in Cognitive Science at CIMEC (2016-2021); ● "Human Neurophysiology" to the following courses at the University of Brescia: ● School of Medicine 30 hours of lecturing per year (2005-2016); ● Degree in Psychiatric Rehabilitation 36 hours of lecturing per year (2007-2016) course coordinator; ● Degree in Physiotherapy 48 hours of lecturing per year (2006-2016) course coordinator. Teaching of "Physiology/Neurophysiology" to the following courses at the University of Brescia: ● Degree in Biotechnology 20 hours of lecturing per year (2003-2010); ● Degree in Professional Educator 24 hours of lecturing per year (2001-2010).

Post-graduation: ● Specialization in Psychiatry 12 hours (2007-2016) Sleep, electroencephalography and brain stimulation; ● Advanced Master in Neuropsychology diagnostic and rehabilitation Catholic University, Milan and Brescia 16 hours (from 2010-2016). Teaching "Cognitive plasticity" and "Non-invasive brain stimulation"; ● Lecturing for PhD courses Department of Psychology University of Milano Bicocca on "Non-invasive brain stimulation" 4 hours (2014-2016). ● Lecturing for PhD courses Department of Psychology, Catholic University of Milan, Translational research: from basic aspect to its applications" 4 hours (2013-2016). ● Teaching "Methods for signal recordings module: "Non-invasive brain stimulation in neurorehabilitation" Advanced Master in Neuropsychology at the University of Padua, Padua Italy 4 hours (2005-2018). ● Teaching as member of the PhD

course in "Psychology, Linguistics and Cognitive Neuroscience" and "Neuroscience" Bicocca University, Milan Italy (2014-2018) "Non-invasive brain stimulation".

#### Supervision of graduate students and postdoctoral fellow

2000 – present 20 Postdoctoral fellows and 20 Research Assistants. Panel member: tutor or co-tutor of 15 PhD students. Master Students Supervision on average 2 for year.

Advisor/Tutor for MS in Experimental Psychology during their one-year training period post-graduation (on average 2 per year from 2000 to 2021).

Tutor or co-tutor of PhD students in the following courses: • "Cognitive and Brain Sciences" University of Trento • "Psychology, Linguistics and Cognitive Neuroscience" University of Milano Bicocca Milan; • "Psychology", "Catholic University Milan; • "Neuroscience" Catholic University Rome; • "Neurosciences" University of Brescia; • "Neuroplasticity and Functional Recovery Sciences" University Campus Biomedico Roma; • "Neurosciences" and "Psychology" University of Verona.

#### **FUNDING/SUPPORT**

##### Currently active

MUR PRIN 2022 Adaptive Brain Connectivity and Cognition ABC&C Project Principal Investigator (PI) € 210,381 (2023-2025).

HORIZON-WIDERA: TWINNIBS Twinning for excellence in non-invasive brain stimulation in Western Balkans. Unit PI € 210,000 (2022-2025).

##### Completed research support/Past funding

COST Action: CA20104 - Network on evidence-based physical activity in old age. Member of Management Committee Italy (2021-2025).

CARITRO Foundation Grants Strategies to improve cognition in the elderly. Project PI Carlo Miniussi € 600,000 (2019-2023).

University of Trento, Fundraising 5x1000. Project PI Non-invasive brain stimulation applied to Alzheimer's disease rehabilitation € 30,000 (2020-2022)

MIUR Departments of Excellence, Coordinator as director for CIMeC € 3M (2018-2022)

Ministry of Health RF-2013-02356444. Principal Investigator (PI) Neuroplasticity and Alzheimer's disease: integrated approach to identify biological and neurophysiological markers whit 3 units. € 162,500 [Overall amount € 413,251] (2016-2020).

Bial Foundation Grants 2016/17 Grant 51/16 Cognitive plasticity: modulation and monitoring through a neurophysiological approach. PI Carlo Miniussi single unit € 49,990 (2017-2019).

Discovery International award founded for Carlo Miniussi A\$ 23,580, as collaborator for: The Australian Research Council Project Grant Discovery Projects 2016 DP160102871. PI E.J. Livesey, I. Harris, J.A. Harris, C. Miniussi University of Sydney A\$ 395,000 (2016-2018).

Infrastructure Grant Italian Health Ministry "Conto Capitale". Neurophysiological markers of connectivity. PI Carlo Miniussi single unit € 86,000 (2017).

infrastructure Grant Italian Health Ministry "Conto Capitale". System for neurophysiological recordings in electromagnetic fields; € 148,000 (2016).

PI Foundation of Brescia Community. Intervention program for the induction of cognitive plasticity in healthy and pathological aging; € 26,000 (2013-2015).

PI of a Research Fellowship "Cooperation in research activities" University of Brescia 2 years. The effects of aerobic exercise on cortical plasticity and learning in healthy adults; € 46,000 (2012-2014).

PI of Regione Lombardia infrastructure Grant. A stereotactic system for neurostimulation and neurophysiological monitoring; € 203,280 (2012).

PI of James S. McDonnell Foundation. 21st Century Science Initiative Grant: Understanding Human Cognition. Planning grant "Non-invasive brain stimulation: new tools, new concepts, and an integrated approach to cognitive neuro-rehabilitation" \$ 50,000 (2010-2011).

PI Grant from Italian Health Ministry Ricerca Corrente. "Modification of cognitive functions in physiological and pathological aging" € 425,000 in total (2010-2015).

PI Grant from Italian Health Ministry Ricerca Corrente. "Human cortical plasticity in physiological and pathological aging manipulation and monitoring through innovative approaches" € 425,000 in total (2010-2015).

PI of Research Fellowship "Cooperation in research activities" University of Brescia 2 years 2009-2010. The effect of transcranial magnetic stimulation (TMS) on early visual processes; € 42,000 (2009-2011).

PI of "Ricerca Finalizzata 2005 RF05/56" Italian Health Ministry "Transcranial Magnetic Stimulation (TMS) in psychiatry: evaluation of the efficacy in depressive syndromes that do not respond to traditional therapy" Collaborative projects with 10 units € 215,000 (2006-2009).

Research Fellowships from University of Brescia "Fondi per attività a carattere internazionale" € 5,200 in total (2005; 2013; 2015).

Unit PI project founded by Fondazione Cariplo private, grant making foundation. "Genetic risk factors for mental illness and neurodegenerative diseases: establishing an extensive database multimodal (neurostructural, neurophysiological and neurobiological) in healthy people" € 39,500 (2005-2006).

Unit PI project founded by Telecom Italia Mobile (TIM) "Effects of electromagnetic fields on cognitive functions and cortical reactivity in normal subjects and patients with Alzheimer dementia" € 100,000 (2005-2006).

PI of infrastructure Grant "Conto Capitale 2002" Evaluation of therapeutic intervention in neuropsychiatric diseases € 132,660 (2003).

PI of "Ricerca Finalizzata 2001 RF00345" Italian Health Ministry "The sensorimotor "gating" deficit: experimental model for an integrated approach to schizophrenia" Two-year collaborative projects with 7 units € 258,000 (2001-2003).

PI of 12 independent annual projects founded by Italian Health Ministry "Ricerca Corrente" € 2,170,874 in total (2000-2009) (per year 351,000; 414,000; 212,109; 169,000; 165,000; 171,500; 175,500; 175,500; 167,265; 170,000).

Unit PI of 8 projects founded by Italian Health Ministry, "Ricerca Finalizzata" from 2000 to 2009, with an average founding of € 40,000 per project: • "Interface between cognitive and movement disorders, clinical genetics and biological aspects" (2007-2009). • "Identificazione dei marcatori biologici precoci per la demenza di Alzheimer". (2006-2009). • "Il ruolo della diagnosi preclinica nell'evoluzione del disturbo cognitivo delle demenze e nella valutazione della risposta ai trattamenti: individuazione di una strategia integrata finalizzata alla validazione di protocolli innovativi diagnostico-terapeutici". (2004-2006). • "Demenza frontotemporale e disturbi del movimento associati: studio clinico-biologico-neuroimaging" (2004-2006). • "Diagnosi, terapia e riabilitazione della schizofrenia" (2003-2005). • "Studio randomizzato controllato dell'ibuprofene nella malattia di Alzheimer lieve" (2002-2005). • "Stimolazione magnetica transcranica ripetitiva (rTMS) in Neuropsichiatria" (2001-2004). • "Decadimento cognitivo lieve non dementigeno: stadio preclinico di malattia di Alzheimer e demenza vascolare. Caratterizzazione clinica, strumentale, genetica e neurobiologica e sviluppo di criteri diagnostici utilizzabili nella realtà nazionale" (2000-2004).

PI of 6 projects founded by Associazione Fatebenefratelli Ricerca (AFaR) from 2001 to 2008 with an average founding of € 15,000 per project: • "Variazioni dell'attività elettroencefalografica della veglia e del sonno, quale indice prospettico della malattia di Alzheimer" (2008). • "Costituzione di un archivio nazionale EEG-AFaR: Indicatori dell'attività cerebrale (ritmi EEG) per una diagnosi oggettiva della demenza (2005-2007). • "La riabilitazione cognitiva e stimolazione magnetica transcranica nei primi stadi della malattia di Alzheimer" (2005). • "Approccio terapeutico con stimolazione magnetica transcranica ripetitiva (rTMS) nel trattamento del disturbo depressivo maggiore farmacoresistente" (2004 2005). • "Approccio terapeutico con stimolazione magnetica transcranica ripetitiva nel trattamento della depressione: uno studio a lungo termine" (2003). • "Approccio terapeutico con stimolazione magnetica transcranica ripetitiva (rTMS) nel trattamento della depressione" (2001-2002).

#### **SCIENTIFIC ORGANIZATION OF THE FOLLOWING CONGRESSES/SYMPOSIA/WORKSHOPS**

Organizer board of the III Transcranial Brain Stimulation in Cognitive Neuroscience Workshop. Rovereto, 2-3 December 2022.

Congress Symposium: 22th Congress of Italian Society of Psychophysiology and Cognitive Neuroscience, Towards an open and reproducible science: Italian Reproducibility Network Palermo, 30 September -2 October 2021.

Organizer board of the II Transcranial Brain Stimulation in Cognitive Neuroscience Workshop. on-line streaming Rovereto, 3-4 December 2020 (300 participants).

Member of the International Scientific Advisory Board 7th International Non-Invasive Brain Stimulation Conference in Baden-Baden Germany 2020.

Member of the scientific advisory board of the 20th World Congress of Psychophysiology (IOP 2020>2021) Chengdu, China, 1-5 September, (2021).

Organizer board of the Think Open Rovereto Workshop on-line streaming Rovereto July 10-11, 2020.

Member of the Local Organizing Committee (LOC) Organization for Human Brain Mapping (OHBM) Roma, Italy 9-13 June 2019.

Co-Organizer of the Adriatica Summer School: Body, senses and neural oscillations, an integrated approach to human perception and behaviour Pescara, 6-7 June 2019.

Organizer board of the Transcranial Brain Stimulation in Cognitive Neuroscience Workshop. (130 participants) Rovereto, 6-7 December 2018.

Organizer board of the Ten years of Mind/Brain Sciences at University of Trento How the past can determine our future. International Symposium (400 participants). Rovereto, 20-21 October 2017.

Congress Symposium: Global approach to brain activity: from psychophysiology to cognition 22th Congresso Nazionale AIP della Sezione di Psicologia Sperimentale, Roma, 20-22 September 2016.

Methodological Workshop Transcranial Electric Stimulation Center for Mind/Brain Sciences - CIMeC Rovereto 7 July 2016.

Congress Symposium: Integrating advanced neuroimaging, neurostimulation and behaviour to explore brain connectivity. 23th Congress of Italian Society of Psychophysiology, Lucca, 19-21 November 2015.

Organizer of the International Symposium: Neuroplasticity and Neurorehabilitation: The motor system. University of Brescia 5 December 2014.

Congress Symposium: Horizons in neurorehabilitation. 22th Congress of Italian Society of Psychophysiology, Florence, 27-29 November 2014.

Pre-congress Workshop: New Techniques in Psychophysiology; Fondazione don Gnocchi Florence 26 November 2014.

Methodological Workshop: Transcranial Electric Stimulation IRCCS Fatebenefratelli Brescia 25-26 September 2014.

National Symposium: The new frontiers of research in cognitive neuroscience: from neuromodulation to the NIRS; IRCCS Fatebenefratelli Brescia, 26-28 June 2014.

International Symposium "Non-invasive Electrical Brain Stimulation (tDCS, tACS, tRNS): Basic and Applied Research" University of Brescia 30 September 2013.

Methodological Workshop Transcranial Electric Stimulation IRCCS Fatebenefratelli Brescia 8 July 2013.

International Symposium: Multimodal Approach in the study of cortical connectivity IRCCS Fatebenefratelli Brescia 1 July 2013.

XIX Congress of Italian Psychophysiology Society (Congress President and Organizer), Brescia, 14-16 November 2011.

Congress Symposium. Cortical plasticity: new frontiers of neurorehabilitation, and High frequency brain oscillatory activity; Congress of Italian Psychophysiology Society, Palermo, 24-26 November 2010.

National Workshop. Transcranial electrical stimulation, new prospects: from bench to the bed site; IRCCS Fatebenefratelli Brescia, 12 November 2010.

Congress Symposium. TMS-EEG co-registration and cortico-cortical connectivity; Congress of Italian Psychophysiology Society, Siena, 28-31 October 2009.

International Workshop. Physiological basis and clinical application of TMS and correlated methods; Roma, 26-27 October 2007. President ad organizer.

Congress Symposium. Cognitive psychology and Neurosciences; Congress of the Italian Experimental Psychology Society, Como, 17-19 September 2007.

International Workshop. Transcranial Magnetic Stimulation in Cognitive Neurosciences; IRCCS Fatebenefratelli Brescia, 21 October 2005. President ad organizer (160 participants).

International Workshop. Transcranial Magnetic Stimulation in Cognitive Neurosciences; IRCCS Fatebenefratelli Brescia, 15 October 2004. President ad organizer (160 participants).

## EDITORIAL WORK - REVIEWING

### Books Editor

2015 – EBook Research topic: Manipulative approaches to human brain dynamics. Edited by K. Kitajo, T. Hanakawa, R.J. Ilmoniemi, **C. Miniussi**. Frontiers in Human Neuroscience EPUB ISSN 1664-8714 ISBN 978-2-88919-479-7 DOI 10.3389/978-2-88919-479-7

2014 – Curatorship for the Italian version of Biological Psychology/Psicobiologia del comportamento by Frederick M. Toates Pearson Education Luca Falciati Carlo Miniussi. ISBN 9788865181959

2013 - Transcranial Brain Stimulation. Edited by **Carlo Miniussi**, Walter Paulus, Paolo Maria Rossini. Frontiers in Neuroscience book series. Publisher: CRC Press Taylor & Francis Group London. ISBN 10: 1439875707 ISBN 9781439875704

2011 - Non-Invasive Brain Stimulation: New Prospects in Cognitive Neurorehabilitation. Edited by **Carlo Miniussi** and Giuseppe Vallar. Publisher: Psychology Press Taylor & Francis Group London ISBN 10: 1848727569 ISBN-13: 9781848727564

#### Editorial Board

2022 – present Editorial Board: European Review of Aging and Physical Activity– BMC Nature Springer

2013 – present Editorial Board: Brain Topography - Springer

● 2015 – 2023 Editorial Board: Scientific Reports – Nature Springer; ● 2015 – 2023 Editorial Board: Frontiers in Integrative Neuroscience – Frontiers; ● 2013 – 2016 Editorial Board: Journal of Neurorestoratology; ● 2011 – 2015 Editorial Board: BioMed Research International – Physiology; ● 2010 – 2015 Editorial Board: Neuropsychological Trends; ● 2011 – 2014 Editorial Board: The Scientific World Journal – Neurology; ● 2011 – 2013 Editorial Board: Open Journal of Medical Imaging.

#### Guest Associate Editor

Guest Associate Editor ● Frontiers in Psychology 2017-18; ● Frontiers in Perception Science; ● European Psychologist 2015-16; ● Frontiers in Human Neuroscience 2014-15; ● Neuropsychological Rehabilitation 2011.

#### Ad hoc reviewer for all main journals and book publishers in the field

● Alzheimer's & Dementia; ● Behavioural Neurology; ● BioMed Research International; ● Brain and Cognition; ● Brain Research Bulletin; ● Brain Stimulation; ● Brain Topography; ● Cambridge University Press; ● Clinical Neurophysiology; ● Cognitive, Affective, and Behavioral Neuroscience; ● Cognitive Brain Research; ● Cognitive Neuropsychology; ● Cognitive Science; ● Cerebral Cortex; ● Cortex; ● Current Biology; ● Current Directions in Psychological Science; ● eLife; ● European Journal of Neuroscience; ● European Review of Aging and Physical Activity; ● European Psychologist; ● Experimental Brain Research; ● Expert Review of Neurotherapeutics; ● Frontiers in Behavioural Neuro; ● Frontiers in Cellular Neuroscience; ● Frontiers in Human Neuroscience; ● Frontiers in Neuropsychiatric Imaging and Stimulation; ● Frontiers in Perception Science; ● Frontiers in Psychology; ● Functional Neurology; ● Giornale Italiano di Psicologia; ● Human Brain Mapping; ● JAMA Psychiatry; ● Journal of Alzheimer's Disease; ● Journal of Cognitive Neuroscience; ● Journal of Integrative Neuroscience; ● Journal of NeuroEngineering and Rehabilitation; ● Journal of Neurology; ● Journal of Neurophysiology; ● Journal of Neuropsychology ● Journal of Neuroscience; ● Journal of Neuroscience and Neuroengineering; ● Journal of Neuroscience Research; ● Nature Communications; ● Neurobiology of Aging; ● Neurobiology of Learning and Memory; ● NeuroImage; ● Neuromodulation: Technology at the Neural Interface; ● Neurophysiologie Clinique; ● Neuropsychologia; ● Neuropsychological Rehabilitation; ● Neuropsychology; ● Neurorehabilitation and Neural Repair; ● Neuroscience; ● Neuroscience & Biobehavioral Reviews; ● Neuroscience Letters; ● Organizational Research Methods; ● PLOS Biology; ● PloS ONE; ● Perceptual and Motor Skills; ● PNAS; ● Psychological Reports; ● Psychological Research; ● Psychonomic Bulletin & Review; ● Psychophysiology; ● Restorative Neurology and Neuroscience; ● Scientific Reports - Nature; ● Sleep Medicine; ● Social Cognitive and Affective Neuroscience; ● The International Journal of Neuropsychopharmacology; ● The International Journal of Neuroscience; ● The Scientific World Journal; ● Trends in Neurosciences.

#### Ad hoc grant and prize reviewer

● Associazione Fatebenefratelli per la Ricerca (AfaR) - biomedical research grant; ● Associazione Italiana Psicologia (AIP) - prize; ● Alzheimer's Association (AA) - International Research Grant Program; ● Alzheimer Nederland, Dutch Alzheimer's Society; ● Deutsche Forschungsgemeinschaft (DFG); ● Erasmus University Rotterdam; ● European Research Council ERC (Executive Agency); ● European Science Foundation; ● Fondazione Cassa di Risparmio di Trento e Rovereto; ● Foundation for Alzheimer Research (SAO-FRA); ● Fonds de la Recherche Scientifique - FNRS; ● Italian Multiple Sclerosis Society (AISM-FISM); ● Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR) - Group of Experts of Evaluation Biological area 05 (GEV) VQR 2011-2014; Referee VQR 2004-2010; 2011-2014; ● Joint Programming Neurodegenerative Disease Research (JPND); ● Marsden Fund Royal Society of New Zealand; ● Medical Research Council (MRC) - Biomedical Catalyst: DPFS/DCS; ● Ministero dell'Istruzione dell'Università e della Ricerca Italiano (MIUR)– Ministry of Education, Universities and Research revisore "peer"; ● Ministero della Salute – Ministry of Health - biomedical research grant; ● Netherlands Organisation for Scientific Research - Innovational Research Incentives Scheme



Vici; • Netherlands WBI; • Princes Beatrix Fonds grant; • Research Foundation – Flanders (FWO); • Swiss National Science Foundation; • The British Academy; • The French National Research Agency (ANR); • UK Dementia Rerearch Institute – LifeArc; • United States-Israel Binational Science Foundation; • Università di Verona Ricerca di Base; • Vienna Science and Technology Fund - Cognitive Sciences grant; • Wellcome Trust - Main Project Grant; - Investigator Award in Science; - Principal and Senior Research Fellowship; - Postdoctoral Fellowship; - Training Fellowship; • Weston Brain Institute.

#### International member as independent referee

Professorship evaluation for several international and national universities.

Final assessment for international PhD: • Queen's University Belfast; • Kingston University London UK; • University of Manitoba, Canada; • University of Newcastle NSW, Australia; • The University of Queensland, Queensland, Australia; • SISSA Triest, Italy. • Indian Institute of Technology Kharagpur, India; • Italian PhD entrance and final assessments: University of Padua; University of Verona; University of Milan –Bicocca; Catholic University; University of Pavia; University of Brescia; University of Trento; University of Turin.

#### **COMMISSIONS OF TRUST**

2020–present. COST Action: CA20104 - Network on evidence-based physical activity in old age Member of the Management Committee member for Italy

2018–present. Member of the International Federation of Clinical Neurophysiology (IFCN) Special Interest Group (SIG) on Non-Invasive Brain Stimulation (NBS)

2008–present. Member of an International group of experts “Safety of TMS Consensus Group”

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2020–2022. Member of the European Task Force for Brain Health Services

2020–2022. Italian Space Agency (ASI) member of Thematic Tables of national experts in the macro-areas of Life Sciences of Space interest: Integrated Physiology

22018–2022. Member of the Monitoring Committee project “Departments of Excellence” Dept. of Neuroscience, Imaging and Clinical Sciences University G. d’Annunzio of Chieti-Pescara

2015–2017 Member of the Group of Experts of Evaluation of Research Quality (VQR) 2011-14 for the Biological area 05. Italian National Agency for the Evaluation of Universities and Research Institutes, Rome Italy

2013–2015 **President** of the Italian Society of Psychophysiology (President elected 2011–2013; President 2013–2015; past President 2015–2017)

2009–2011 Board Member as Auditor of the Italian Society of Psychophysiology

2007–2015 Member of the Ethical Committee of the International School for Advanced Studies, Trieste Italy

#### **MEMBERSHIPS**

• Collegio dei Fisiologi; • Italian Reproducibility Network; • Società Italiana di Neuropsicologia (SINP); • Società Italiana di Psicofisiologia e Neuroscienze Cognitive (SIPF).

Past member: • Associazione Italiana di Psicologia Sperimentale (AIP); • Cognitive Neuroscience Society (CNS); • European Brain and Behaviour Society (EBBS); • Federation of European Neuroscience Societies (FENS); • International Brain Research Organization (IBRO) as SfN member; • Società Italiana di Riabilitazione Neurologica (SIRN); • Società Italiana di Fisiologia (SIF); • Società Italiana di Neurofisiologia Clinica (SINC); • Society for Neuroscience (SfN); • Honorary Member of the Associazione Italiana di Neuropsicologia (AINp).

## RESEARCH PRODUCTS

### DATA SETS AND REPOSITORIES

**GIN G-Node:** since 2021 raw data

Raw TMS-EEG data from the study entitled "The impact of artifact removal approaches on TMS-EEG signal" By Bertazzoli G, Esposito R, Mutanen TP, Ferrari C, Ilmoniemi RJ, Miniussi C, Bortoletto M. [https://gin.g-node.org/CIMeC/TMS-EEG\\_brain\\_connectivity\\_BIDS](https://gin.g-node.org/CIMeC/TMS-EEG_brain_connectivity_BIDS)

Raw TMS-EEG data from the study entitled "Alpha-band cortico-cortical phase synchronization is associated with effective connectivity in the motor network" by Zazio A, Miniussi C, Bortoletto M <https://gin.g-node.org/AgneseZazio/ZazioMiniussiBortoletto2021>

**OSF:** since 2016; Projects <https://osf.io/4z43f/> Registrations <https://osf.io/rwx29>

**Zenodo:** since 2023; presentations and documents

[https://zenodo.org/search?q=metadata.creators.person\\_or\\_org.name%3A%22Carlo%20Miniussi%22&l=list&p=1&s=10&sort=bestmatch](https://zenodo.org/search?q=metadata.creators.person_or_org.name%3A%22Carlo%20Miniussi%22&l=list&p=1&s=10&sort=bestmatch)

**GitHub:** since 2023 <https://github.com/coneco-lab>

**ClinicalTrials.gov:** since 2019; database of clinical research studies:

<https://clinicaltrials.gov/search?term=Miniussi%20Carlo>

**bioRxiv:** since 2017; preprints server of research in the life sciences:

[https://www.biorxiv.org/search/author1%3AMiniussi%2BCarlo%20jcode%3Abiorxiv%20numresults%3A50%20sort%3ARelevance-rank%20format\\_result%3Astandard](https://www.biorxiv.org/search/author1%3AMiniussi%2BCarlo%20jcode%3Abiorxiv%20numresults%3A50%20sort%3ARelevance-rank%20format_result%3Astandard)

### FULL LIST OF PUBLICATIONS IN PEER REVIEWED JOURNALS

#### 2023

1. Frisoni GB, Altomare D, Ribaldi F, Villain N, Brayne C, Mukadam N, Abramowicz M, Barkhof F, Berthier M, Bieler-Aeschlimann M, Blennow K, Brioschi Guevara A, Carrera E, Chételat G, Csajka C, Demonet JF, Dodich A, Garibotto V, Georges J, Hurst S, Jessen F, Kivipelto M, Llewellyn DJ, McWhirter L, Milne R, Minguillón C, **Miniussi C**, Molinuevo JL, Nilsson PM, Noyce A, Ranson JM, Grau-Rivera O, Schott JM, Solomon A, Stephen R, van der Flier W, van Duijn C, Vellas B, Visser LNC, Cummings JL, Scheltens P, Ritchie C, Dubois B. (2023). Dementia prevention in memory clinics: recommendations from the European task force for brain health services. *The Lancet Regional Health – Europe*. 100576. doi: 10.1016/j.lanepe.2022.100576.
2. Battaglini L Casco C., Fertonani A, **Miniussi C**, Di Ponzio M., Vicovaro M. (2023) Noise in the brain: Transcranial random noise stimulation and perceptual noise act on a stochastic resonance-like mechanism. *European Journal of Neuroscience* 57(12):2097-2111. doi: 10.1111/ejn.15965
3. Hernandez-Pavon JC, Veniero D, Bergmann TO, Belardinelli P, Bortoletto M, Casarotto S, Casula EP, Farzan F, Fecchio M, Julkunen P, Kallioniemi E, Lioumis P, Metsomaa J, **Miniussi C**, Mutanen TP, Rocchi L, Rogasch NC, Shafi MM, Siebner HR, Thut G, Zrenner C, Ziemann U, Ilmoniemi RJ. (2023) TMS combined with EEG: Recommendations and open issues for data collection and analysis. *Brain Stimul.* 22:S1935-861X(23)01696-0. doi: 10.1016/j.brs.2023.02.009.
4. Bagattini C, Cid-Fernández S, Bulgari M, **Miniussi C**, Bortoletto M. (2023). Opposite pattern of transcranial direct current stimulation effects in middle-aged and older adults: Behavioral and neurophysiological evidence. *Front Aging Neurosci.* 15:1087749. doi: 10.3389/fnagi.2023.1087749.

#### 2022

5. Rodríguez-Herreros B, Amengual JL, Vázquez-Anguiano JL, Ionta S, **Miniussi C**, Cunillera T. (2022). Early response competition over the motor cortex underlies proactive control of error correction. *Scientific Reports.* 12(1):9232. doi: 10.1038/s41598-022-12928-5.
6. Cespón J, Pellicciari MC, Casula EP, **Miniussi C**. (2022). Age-related Changes in Cortical Excitability Linked to Decreased Attentional and Inhibitory Control. *Neuroscience.* 495:1-14. doi: 10.1016/j.neuroscience.2022.05.021.
7. Bonzano L, Bortoletto M, Zazio A, Lester C, Stango A, Gasparotti R, **Miniussi C**, Bove M. (2022). The hand motor hotspot for seed-based functional connectivity of hand motor networks at rest. *Front Neurosci.* 12;16:896746. doi: 10.3389/fnins.2022.896746.
8. Giustiniani A, Vallesi A, Oliveri M, Tarantino V, Ambrosini E, Bortoletto M, Masina F, Busan P, Siebner HR, Fadiga L, Koch G, Leocani L, Lefaucheur JP, Rotenberg A, Zangen A, Violante IR, Moliadze V, Gamba OL,

- Ugawa Y, Pascual-Leone A, Ziemann U, **Miniussi C**, Burgio F. (2022). A questionnaire to collect unintended effects of transcranial magnetic stimulation: A consensus based approach. *Clinical Neurophysiology*. S1388-2457(22)00303-0. doi: 10.1016/j.clinph.2022.06.008.
9. Antal A, Luber B, Brem AK, Bikson M, Brunoni AR, Cohen Kadosh R, Džurđević V, Fecteau S, Ferreri F, Flöel A, Hallett M, Hamilton RH, Herrmann CS, Lavidor M, Loo C, Lustenberger C, Machado S, **Miniussi C**, Moliadze V, Nitsche MA, Rossi S, Rossini PM, Santarnecchi E, Seeck M, Thut G, Turi Z, Ugawa Y, Venkatasubramanian G, Wenderoth N, Wexler A, Ziemann U, Paulus W. (2022). Non-invasive brain stimulation and neuroenhancement. *Clinical Neurophysiology Practice*. 7:146-165. doi: 10.1016/j.cnp.2022.05.002.
  10. Esposito M., Ferrari C., Fracassi C., **Miniussi C.**, Brigani D. (2022). Responsiveness to left-prefrontal tDCS varies according to arousal levels [bioRxiv doi: 10.1101/2020.05.08.083717] *European Journal of Neuroscience*. doi: 10.1111/ejn.15584.
  11. Siebner HR, Funke K, Aberra AS, Antal A, Bestmann S, Chen R, Classen J, Davare M, Di Lazzaro V, Fox PT, Hallett M, Karabanov AN, Kesselheim J, Beck MM, Koch G, Liebetanz D, Meunier S, **Miniussi C**, Paulus W, Peterchev AV, Popa T, Ridding MC, Thielscher A, Ziemann U, Rothwell JC, Ugawa Y. (2022). Transcranial magnetic stimulation of the brain: What is stimulated? – a consensus and critical position paper *Clinical Neurophysiology*. 140:59-97. doi: 10.1016/j.clinph.2022.04.022
  12. Esposito R., Bortoletto M., Zacà D., Avesani P., **Miniussi C.** (2022). An integrated TMS-EEG and MRI approach to explore the inter-regional connectivity of the default mode network *Brain Structure and Function*, 10.1007/s00429-022-02453-6.
  13. Brunoni AR, Ekhtiari H, Antal A, Auvichayapat P, Baeken C, Benseñor IM, Bikson M, Boggio P, Borroni B, Brighina F, Brunelin E, Carvalho S, Caumo W, Ciechanski P, Charvet L, Clark VP, Cohen Kadosh R, Cotelli M, Datta A, Deng ZD, De Raedt R, De Ridder D, Fitzgerald PB, Floel A, Frohlich F, George MS, Ghobadi-Azbari P, Goerigk S, Hamilton RH, Jaberzadeh SJ, Hoy K, Kidgell DJ, Zonoozi AK, Kirton A, Laureys S, Lavidor M, Lee K, Leite J, Lisanby SH, Loo C, Martin DM, **Miniussi C**, Mondino M, Monte-Silva K, Morales-Quezada L, Nitsche MA, Okano AH, Oliveira CS, Onarheim B, Pacheco-Barrios K, Padberg F, Nakamura-Palacios EM, Palm U, Paulus W, Plewnia C, Priori A, Rajji TK, Razza LB, Rehn EM, Ruffini G, Schellhorn K, Zare-Bidoky M, Simis M, Skorupinski P, Suen P, Thibaut A, Valiengo LCL, Vanderhasselt MA, Vanneste S, Venkatasubramanian G, Violante IR, Wexler A, Woods AJ, Fregni F. (2022). Digitalized transcranial electrical stimulation: A consensus statement. *Clin Neurophysiol* S1388-2457(22)00871-9. doi: 10.1016/j.clinph.2022.08.018.
  14. Galli G., **Miniussi C.**, Pellicciari M.C. (2022). Transcranial electric stimulation as a neural interface to gain insight on human brain functions: current knowledge and future perspective. *Social Cognitive and Affective Neuroscience*, 17(1): 4–14, doi: 10.1093/scan/nsaa099.

## 2021

15. Esposito M., Mauri P., Panizza L., Mazza V., **Miniussi C.**, Brignani D., (2021). Baseline levels of alertness influence tES effects along different age-related directions. *Neuropsychologia*, 17;160:107966. doi: 10.1016/j.neuropsychologia.2021.1079.
16. Grasso P.A., Tonolli E., Bortoletto M., **Miniussi C.**, (2021). tDCS over posterior parietal cortex increases cortical excitability but decreases learning: an ERPs and TMS-EEG study. *Brain Research*, 15;1753:147227. doi: 10.1016/j.brainres.2020.147227.
17. Zazio A., **Miniussi C.**, Bortoletto M. (2021) Alpha-band cortico-cortical phase synchronization predicts effective connectivity in the motor network. *Clinical Neurophysiology*, doi: 10.1016/j.clinph.2021.06.025.
18. Bertazzoli G., Esposito R., Mutanen TP., Ferrari C., Ilmoniemi R.J., **Miniussi C.**, Bortoletto M. (2021). The impact of artifact removal methods on TMS-EEG signal [bioRxiv doi: 10.1101/2021.01.15.426817v1] *Neuroimage*, 1;239:118272. doi: 10.1016/j.neuroimage.2021.118272.
19. Bortoletto M., Bonzano L., Zazio A., Pedullà L., Gasparotti R., **Miniussi C.**, Bove M. (2021). Asymmetric transcallosal conduction delay leads to finer bimanual coordination. [bioRxiv doi: 10.1101/2020.01.24.918102] *Brain Stimulation*. 10;14(2):379-388. doi: 10.1016/j.brs.2021.02.002.
20. Meconi F., Hodsoll J., Goranova Z., Degano G., Di Lello N., **Miniussi C.**, Avenanti A., Mevorach C. (2021). Remember as we empathize. Do brain mechanisms engaged in autobiographical memory retrieval causally affect empathy awareness? A combined TMS and EEG registered report *Journal of Neuroscience Research*. doi: 10.1002/jnr.24906.

21. Brioschi A., Altomare D., Berthier M., Bieler M., Csajka C., Démonet J.F., Dodich A., Frisoni G.B., **Miniussi C.**, Molinuevo J.L., Ribaldi F., Scheltens P., Chételat G. (2021). Protocols for cognitive enhancement in persons at risk for dementia. A user manual for Brain Health Services *Alzheimer's Research & Therapy*, 13:172. doi: 10.1186/s13195-021-00844-1.
22. Vecchio F., Miraglia F., Rodella C., Alù F., **Miniussi C.**, Rossini P.M., Pellicciari M.C. (2021). tDCS effects on brain network properties during physiological aging. *Pflügers Archiv - European Journal of Physiology*, 473:785–792. doi: 10.1007/s00424-020-02428-8.
23. Rossi S., Antal A., Bestman S., Bikson M., Brewer C., Brockmüller J., Carpenter L.L., Cincotta M., Chen R., Daskalakis J.D., Di Lazzaro V., Fox M.D., George M.S., Gilbert D., Kimiskidis V.K., Koch G., Ilmoniemi R.J., Lefaucheur JP, Leocani L, Lisanby S.H., **Miniussi C.**, Padberg F., Pascual-Leone A., Paulus W., et al. (2021). Safety and recommendations for TMS use in healthy subjects and patient populations, with updates on training, ethical and regulatory issues: Expert Guidelines *Clinical Neurophysiology*, 132(1):269-306. doi: 10.1016/j.clinph.2020.10.003.

## 2020

24. Bagattini C, Zanni M, Barocco F, Caffarra P, Brignani D, **Miniussi C**, Defanti CA (2020). Enhancing cognitive training effects in Alzheimer's disease: rTMS as an add-on treatment. *Brain Stimulation*, 13(6):1655-1664. doi: 10.1016/j.brs.2020.09.010.
25. de Tommaso, M., Betti, V., Bocci, T. N Bolognini; F Di Russo; F Fattapposta, R Ferri, S Invitto, G Koch, **C. Miniussi**, F Piccione, A Ragazzoni, F Sartucci, S Rossi, M Valeriani (2020). Pearl and pitfalls in brain functional analysis by event-related potentials: a narrative review by the Italian Psychophysiology and Cognitive Neuroscience Society on methodological limits and clinical reliability—part II. *Neurological Sciences*, 41(12):3503-3515. doi: 10.1007/s10072-020-04527-x.
26. Maddaluno O., Guidali G., Zazio A., **Miniussi C.**, Bolognini N. (2020). Touch anticipation mediates cross-modal Hebbian plasticity in the primary somatosensory *Cortex* 126, 173-181. doi: 10.1016/j.cortex.2020.01.008.
27. Grasso P.A., Tonolli E., **Miniussi C.** (2020). Effects of different transcranial direct current stimulation protocols on visuo-spatial contextual learning formation: evidence of homeostatic regulatory mechanisms. *Scientific Reports*, 10(1):4622. doi: 10.1038/s41598-020-61626-7
28. Zazio A., Schreiber M., **Miniussi C.**, Bortoletto M. (2020). Modelling the effects of ongoing alpha activity on visual perception: The oscillation-based probability of response. *bioRxiv* doi: 10.1101/752766; *Neuroscience & Biobehavioral Reviews*, 112, 242-53. doi: 10.1016/j.neubiorev.2020.01.037
29. Catricalà E., Conca F., Fertonani A., **Miniussi C.**, Cappa S.F. (2020). State-Dependent TMS reveals the differential contribution of ATL and IPS in the representation of abstract concepts related to social and quantity knowledge. *Cortex*, 123:30-41. doi: 10.1016/j.cortex.2019.09.018
30. de Tommaso M., Betti V., Bocci T., Bolognini N., Di Russo F., Fattapposta F., Ferri R., Invitto S., Koch G., **Miniussi C.**, F Piccione, A Ragazzoni; F Sartucci, S Rossi, G Arcara, M Berchicci, V Bianco, M Delussi, E Gentile, F Giovannelli, D Mannarelli, M Marino, E Mussini, C Pauletti, MC Pellicciari, A Pisoni, A Ragg, M Valeriani (2020). Pearls and pitfalls in brain functional analysis by event-related potentials: a narrative review by the Italian Psychophysiology and Cognitive Neuroscience Society on methodological limits and clinical reliability—part I. *Neurological Sciences*, 41(10):2711-2735 doi: 10.1007/s10072-020-04420-7
31. Esposito R., Bortoletto M., **Miniussi C.** (2020). Integrating TMS, EEG and MRI as an approach for studying brain connectivity. *The Neuroscientist*, 26(5-6):471-486. doi: 10.1177/1073858420916452

## 2019

32. Cespón J., Rodella C., **Miniussi C.**, Pellicciari M.C. (2019) Behavioural and electrophysiological modulations induced by transcranial direct current stimulation in healthy elderly and Alzheimer's disease patients: A pilot study. *Clinical Neurophysiology*, 130(11), 2038-2052. doi: 10.1016/j.clinph.2019.08.016
33. Battaglini L, Contemori G, Fertonani A, **Miniussi C**, Coccaro A, Casco C (2019). Excitatory and inhibitory lateral interactions effects on contrast detection are modulated by tRNS. *Scientific Reports*, 9(1):19274. doi: 10.1038/s41598-019-55602-z
34. Zazio A., Guidali G., Maddaluno O., **Miniussi C.**, Bolognini N. (2019). Hebbian associative plasticity in the visuo-tactile domain: A cross-modal paired associative stimulation protocol. *Neuroimage*, 116025. doi: 10.1016/j.neuroimage.2019.116025

35. Perinelli A., Tabarelli D., **Miniussi C.**, Ricci L. (2019). Dependence of connectivity on geometric distance in brain networks. *Scientific Reports*, 9(1):13412. doi: 10.1038/s41598-019-50106-2
36. Fertonani A, Pirulli C., Bollini A., **Miniussi C.**, Bortoletto M. (2019). Age-related changes in cortical connectivity influence the neuromodulatory effects of transcranial electrical stimulation. *Neurobiology of Aging*, 82, 77-87. doi: 10.1016/j.neurobiolaging.2019.07.009
37. Zazio, A., Bortoletto M., Ruzzoli M., **Miniussi C.**, Veniero D. (2019). Perceptual and physiological consequences of dark adaptation: a TMS-EEG study. *Brain Topography*, 32(5), 773-782 doi: 10.1007/s10548-019-00715-x
38. Bagattini, C., Mutanen, T.P., Fracassi, C., Manenti, R., Cotelli, M., Ilmoniemi, R.J., **Miniussi C.**, Bortoletto, M. (2019). Predicting Alzheimer's disease severity by means of TMS-EEG coregistration. *Neurobiology of Aging*, 13;80:38-45 doi: 10.1016/j.neurobiolaging.2019.04.008
39. Belardinelli P, Biabani M, Blumberger DM, Bortoletto M, Casarotto S, David O, Desideri D, Etkin A, Ferrarelli F, Fitzgerald PB, Fornito A, Gordon PC, Gosseries O, Harquel S, Julkunen P, Keller CJ, Kimiskidis VK, Lioumis P, **Miniussi C**, Rosanova M, Rossi S, Sarasso S, Wu W, Zrenner C, Daskalakis ZJ, Rogasch NC, Massimini M, Ziemann U, Ilmoniemi RJ. (2019). Reproducibility in TMS-EEG studies: a call for data sharing, standard procedures and effective experimental control. *Brain stimulation*, 12(3):787-790. doi: 10.1016/j.brs.2019.01.010

## 2018

40. MC. Pellicciari **C. Miniussi (2018)**. Transcranial direct current stimulation in neurodegenerative disorders. *The Journal of ECT*, 34(3):193-202 doi: 10.1097/YCT.0000000000000539
41. J. Cespón, **C. Miniussi**, M.C. Pellicciari (2018). Interventional programmes to improve cognition during healthy and pathological ageing: Cortical modulations and evidence for brain plasticity. *Ageing Research Reviews*, 43, 81–98. doi: 10.1016/j.arr.2018.03.001
42. P. Mengotti, M. Aiello, D. Terenzi, **C. Miniussi**, R.I. Rumiati (2018). How brain response and eating habits modulate food energy estimation. *Physiology & Behavior*, 188:18-24. doi: 10.1016/j.physbeh.2018.01.015

## 2017

43. M.C. Pellicciari, D. Veniero, **C. Miniussi (2017)**. Characterizing the cortical oscillatory response to TMS pulse. *Frontiers in Cellular Neuroscience*, 11:38. doi: 10.3389/fncel.2017.00038
44. Y. Mizuno, M. Kawasaki, M. Shimono, **C. Miniussi**, Y.O. Okazaki, K. Ueno, C. Suzuki, T. Asamizuya, K. Cheng, K. Kitajo (2017). Tracking Individual Differences in Perception by TMS-EEG Intrinsic Effective Connectivity. *bioRxiv* doi: https://doi.org/10.1101/206797
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#### BOOK CHAPTERS

1. C. Miniussi, C. Papagno e G. Vallar (2022). La plasticità cerebrale e il recupero funzionale dopo una lesione cerebrale. In Manuale di riabilitazione neuropsicologica a cura di G. Vallar e C. Papagno. Chapter 1. Il Mulino, Bologna.
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#### SELECTED INVITED PRESENTATIONS AT *INTER/NATIONAL CONFERENCES / SEMINARS / SUMMER-SCHOOLS / SYMPOSIA / WORKSHOPS*

##### 2023

1. Transcranial Electrical Stimulation (tES) Challenges: a Lesson Learned. 4th meeting European Research Network for Transcutaneous Vagus Nerve Stimulation Research KU Leuven Leuven, Belgium - 26-27 October
2. Variability in cognition Expert Workshop Controversies in Brain Stimulation: Targeting Variability in Transcranial Stimulation Research 6th – 8th October University of Munich
3. Transcranial stimulation and electroencephalography in the exploration of cortical connectivity International Neuropsychological Symposium (INS 2023); Villasimius June 19-23,
4. Neuromodulazione e Causalità nei "Modelli Riabilitativi" Riunione annuale Gruppo di Studio "Neurologia Cognitiva-Comportamentale" Società Italiana di Neurologia 13 giugno
5. Neuromodulazione cerebrale, plasticità e apprendimento motorio Congresso annual della Società Italiana di Riabilitazione Neurologica (SIRN) Riva del Garda April 16-18
6. The reproducibility crisis in scientific research a new research paradigm. Invited presentation Univerdity of Verona February 1

##### 2022

7. La stimolazione elettrica transcranica (tES) stato dell'arte e prospettive di utilizzo. Invited presentation IX CONGRESSO NAZIONALE PRISMA Firenze March 26-27
8. Open science practices enabling collaborative culture in dementia. Invited presentation. SINDem Florence October 17-18.
9. Non-Invasive Brain Stimulation an unfulfilled promise. Congresso Nazionale SINP Rovereto, November 20-22

##### 2020

10. Cognitive enhancement protocols Non-invasive brain stimulation. Invited Speaker Workshop on Brain Health Services Geneve, June 15-16 Online

##### 2019

11. Old solutions, new ideas. To which category does neuromodulation belong? Key Note lecture 7th Meeting of the Federation of the European Societies of Neuropsychology Milan, 5-7 September
12. TMS-EEG an Integrative Approach for Future Implementation. Invited Speaker Symoismus OHBS Rome Italy, June 12.

##### 2018

13. Transcranial magnetic stimulation and electroencephalography in the exploration of cortical connectivity. Key Note lecture at the Sepex - Sepneca – Aip experimental Joint Conference Madrid, Spain, Jun 3-6.
14. Transcranial magnetic stimulation and electroencephalography in the exploration of the connectome. Invited presentation The 5th Bangalore Cognition Workshop, Bangalore India June 17-29
15. Old solutions new ideas. To which category neuromodulation by tES belongs. Invited presentation. SINDem Florence April 19-21.

##### 2017

16. La neuromodulazione nella riabilitazione dei disturbi cognitivi Main Lecture. SINP Palermo Italy November Italy 24-25.
17. Perspectives of using non-invasive brain stimulation in cognitive neuroscience. Conferencia EPEX Main lecture at the 11 RECA Baeza, Spain, September 28-30.
18. Analysis of the human brain by transcranial brain stimulation 1 and 2. Brain Connectivity and Connectome IBRO-Kemali Mediterranean School in Neuroscience, Faculty of Sciences Mohammed V University, Rabat, Morocco, September 14-22

##### 2016

19. Neuronal networks involved in cognitive plasticity during behavioral task execution. Conference: Updates on Human Brain Connectome: From Physiology to Diseases. Rome, Italy, November 28-29.
20. Non-invasive brain stimulation. 17th international Science of Aphasia conference Venice Italy, September 28-30.
21. Brain stimulation and cognition University of Oxford, Oxford, UK, September 26-27.
22. Stimulation outside of motor cortex. International Conference on Transcranial Brain Stimulation. Göttingen, Germany, September 7-11.
23. Screening, Risks of tES related side effects in healthy populations, (local and cognitive, perceptual and neuropsychological side effects. 6<sup>th</sup> Safety Meeting on Transcranial Electrical Stimulation. Göttingen, Germany, September 6-7.
24. Accessing cortical connectivity using TMS-EEG. Lecturer 4th Science Factory: TMS-EEG Summer School, Aalto University Solvalla, Espoo, Helsinki; Finland June 6–11.
25. Transcranial magnetic stimulation and electroencephalography in the exploration of cortical connectivity. Seminar UCL Institute of Neurology, University College London, FIL London, UK, May 12.
26. Transcranial electrical stimulation good for all, or not good at all? School of Psychology, Seminar Institute of Neuroscience & Psychology, University of Glasgow, UK, March 18.
27. Transcranial electrical stimulation, good for all, or not good at all? A technical introduction to non-invasive brain stimulation (i.e., tDCS; tACS; tRNS) tools. Seminar School of Psychology, University of Sydney, Sydney Australia, February 23.

##### 2015

28. TMS-EEG and connectivity. The brain and gliomas: when the connections are crucial. International meeting. Brescia September 24-26.
29. The topology of brain networks; Non invasive brain stimulation and EEG. Department of Health Sciences and Technology ETH Zurich, Switzerland, June 11.
30. New prospects of TMS-EEG in the exploration of the human connectome. 9<sup>th</sup> Magstim Neuroscience Conference 2015, Oxford UK, May 9-10.

##### 2014

31. Perspectives of transcranial direct current stimulation and related techniques in the study and treatment of cognitive disorders. 15th international Science of Aphasia conference Aphasiology: past, present and future Venice Italy, September 19-24.
32. Transcranial electric stimulation tES. Seminar, Department of Psychology, Åbo Akademi University, Turku Finland, September 13.



33. TMS-EEG Coregistration in the Exploration of the Human Connectome. Lecturer Science Factory "Probing Brain Dynamics", Aalto University Espoo, Helsinki; Finland September 8–12.
34. Non-invasive brain stimulation in cognitive neuroscience: A "noisy explanation". Invited talk symposium: TMS and tDCS as a tool in cognitive neuroscience: How does transcranial stimulation influence behavior? International Cognitive Neuroscience Conference (ICON) Brisbane, Australia, July 27-31.
35. The Contribution of TMS-EEG Coregistration in the Exploration of the Human Connectome. Oral Presentation. International Cognitive Neuroscience Conference (ICON) Brisbane, Australia, July 27-31.
36. Non invasive brain stimulation effects on behavioral protocols facilitation vs. inhibition. Invited talk satellite symposium: Multidisciplinary and Translational Advances in Cognitive Control University of Newcastle, Australia, July 21-22.
37. The role of TMS-EEG in assessment of minimally conscious states. The 30th International Congress of Clinical Neurophysiology (ICCN) of the International Federation of Clinical Neurophysiology (IFCN) Berlin, Germany, March 20-22.
38. Language rehabilitation and non-invasive brain stimulation. The 30th International Congress of Clinical Neurophysiology (ICCN) of the International Federation of Clinical Neurophysiology (IFCN) Berlin, Germany, March 20-22.
39. Is neural inhibition by non-invasive brain stimulation always detrimental at behavioural level? European Workshop in Cognitive Neuropsychology. Brixen, Italy, January 28-31.
40. TMS-evoked EEG/cortical potentials in normal and unsuccessful aging. Invited talk SINdem Brixen, January 22-24.
- 2013**
41. How non-invasive brain stimulation can be framed in cognitive neuroscience. Faculty lecturer on neurostimulation FENS-IBRO training center, Lausanne, Switzerland, September 9–12.
42. Transcranial direct current stimulation. Faculty lecturer. SISSA International Summer School in Social Cognitive Neuroscience (SCoNe) 2013 Trieste July 14-19.
43. Combining tDCS and TMS with EEG offers new prospects in neuroscience: basic protocols of a multimodal approach. Lecturer Science Factory "Coupling to the dynamics of the human brain with TMS-EEG" Department of Biomedical Engineering and Computational Science, Aalto University Espoo, June Finland 3–8.
44. rTMS applications on Alzheimer's disease. Biomedical Engineering Research Seminar Department of Electrical & Computer Engineering University of Manitoba Winnipeg, Manitoba, Canada April 18.
45. Basic aspects of transcranial magnetic stimulation. Riverview Health Centre, Manitoba, Canada April 19.
46. Non-Invasive Brain Stimulation In Cognitive Neuroscience. 5th International Conference on Non-invasive Brain Stimulation, Leipzig, Germany March 19–21.
47. Non-invasive brain stimulation in cognitive neurorehabilitation. Seminar National Institute of Neuroscience The National Center of Neurology and Psychiatry, Tokyo, Japan February 28.
48. How non-invasive brain stimulation can be framed in cognitive neuroscience. Seminar Rhythm-based brain information processing unit RIKEN BSI - Toyota collaboration center RIKEN Brain Science Institute, Wako, Saitama Japan February 27.
49. Combining electroencephalography and non-invasive brain stimulation offers new prospects in neuroscience. Seminar RIKEN Brain Science Institute Tokyo Japan February 25.
50. Neuromodulation in the study of cognitive functions. Lecture Winter School IDEALAB International Doctorate for Experimental Approaches to Language And Brain. Rovereto, Italy January 31.
- 2012**
51. Combining electroencephalography and non-invasive brain stimulation offers new prospects in neuroscience. Seminar. Queensland Brain Institute, The University of Queensland, Brisbane, September 7.
52. Neuromodulation by transcranial electrical stimulation and perceptual learning. 4th Brain Plasticity Symposium, Brisbane, September 3-5.
53. Combining non-invasive brain stimulation and electroencephalography in neuroplasticity studies. Seminar. Institute of Neuroscience and Medicine Cognitive Neuroscience, Research Center Jülich GmbH, June 29.
54. Combining non-invasive brain stimulation and electroencephalography. Seminar. School of Psychology Trinity College Institute of Neuroscience, Dublin March 5.
55. Combining TMS and EEG offers new prospects in neuroscience. NWG Practical Course Transcranial Magnetic and Electrical Stimulation (TMS/tDCS/tACS/tRNS). Universitätsmedizin Göttingen, February 21-23.
- 2011**
56. Stimulating the Brain for Research and Therapy. Plenary Lecture. Italy-Israel Dialogue on Cognitive and Affective Neuroscience. Interdisciplinary Center - Embassy of Italy Tel Aviv, November 7.
57. Induced Synaptic Plasticity and Cognitive Plasticity in the Healthy and Pathological Adult Brain. Italy-Israel Dialogue on Cognitive and Affective Neuroscience IDC Herzliya November 7.
58. Non invasive brain stimulation in cognitive neurorehabilitation. ENRC 1st European NeuroRehabilitation Congress. Meran, October 20-22.
59. Novel assessment methods: Brain stimulation-EEG studies. III international Symposium in Neuromodulation. Sao Paulo, October 17-19.
60. The mechanism of transcranial magnetic stimulation in cognition. III international Symposium in Neuromodulation. Sao Paulo, October 17-19.
61. Combining EEG and transcranial stimulation in neuroplasticity studies. Symposium: Unconventional use of EEG, BCI and TMS-EEG coregistration. SiNAPSA Neuroscience Conference FENS meeting. Lubjana, September 22-25.
62. Combining EEG and transcranial stimulation. 4th International Conference on TMS and tDCS. 14th European Congress of Clinical Neurophysiology. Rome, July 14.
63. Combining EEG and non invasive brain stimulation offers new prospects in neuroscience. Centre for Neuroimaging at UCL. Institute of Movement Neuroscience & Sobell Department of Motor Neuroscience and Movement Disorders (UCL) seminar series. London, February 10.
64. Non invasive brain stimulation offers new prospects in language recovery. Neuroimaging of cognitive functions in language recovery session. 29th European Workshop in Cognitive Neuropsychology. Brixen, January 23-28.
- 2010**
65. Neuroplasticity: monitoring through EEG approaches. International Workshop on Synaptic Plasticity from Bench to Bed Side. Taormina, April 28 – May 1.
- 2009**
66. Neural noise and TMS-induced effects in cognitive studies. TMS Summer School Institute of Cognitive Neuroscience ICN, London, May 29-30.
- 2008**

67. Biological effects of TMS, animal models. Safety of TMS Consensus Group Meeting to establish the Safety, ethical considerations, and application guidelines for the use of transcranial magnetic stimulation in clinical practice and research. Guidelines, Published in Clinical Neurophysiology, 2009: 120, 2008–2039.

#### **PUBLIC ENGAGEMENT/MEDIA ENGAGEMENT/TERZA MISSIONE**

**2022**

Rai Radio 1, neuroscienze e intelligenza Artificiale, Inviato Speciale del 05 Febbraio 2022

**2019**

Viaggio al centro del cervello, evento aperto sulle neuroscienze Vertika Boario 12 luglio 2019

**2018**

Innovation Trend Report - monographs published annually by Intesa Sanpaolo S.p.A. on trending topics with relevant societal and economic impact.

interview on the topic of Neuroscience: tools to stimulate and probe the human brain; August 2018

Rai Cultura Memex Galileo

"conversazioni" Plasticità neurale e neurostimolazione <http://www.raiscuola.rai.it/programma-unita/memex-galileo/301/-1/default.aspx#Puntate>

Popular Science

Cervello: perché l'apprendimento è così complesso <http://www.popsci.it/cervello-perche-lapprendimento-e-cosi-complesso.html> Mar 26, 2018

RAI RADIO1: INVIATO SPECIALE. I 'volontari' sani

<http://www.ufficiostampa.rai.it/dl/UfficioStampa/Articoli/INVIATO-SPECIALE-a01b9bfa-2a35-4a97-88bf-398812d852e5.html> Side. 17/02/2018 - 08:30.

**2017**

Trento.INBLU

28/03/2017 - alle ore 12:00 Carlo Miniussi "La mente umana", Intervista radiofonica a cura di <http://www.trentinoinblu.it/Palinsesto/Programmi/UNItrento.INBLU/28-marzo-2017-UNItrento.INBLU>

RAI Radio1

17/10/17 alle ore 12:25 Carlo Miniussi C'è qualcuno? Storie di neuroni", Intervista radiofonica a cura della RAI Radio1 fascia regionale (in onda sulle frequenze fm 88.6, 91, 91.3 o 91.5)

Rai VivinTrentino

29/10/2017 Partecipazione alla trasmissione televisiva Rai VivinTrentino "mente e cervello" <http://www.raisplay.it/video/2017/10/18-Puntata-VivinTrentino-de7c29b4-49f5-408a-bf8f-d87b5e74631f.html>

Università dell'età libera

30/10/2017 Il sonno: teoria e istruzioni per l'uso. Partecipazione ai corsi Comune di Rovereto Università dell'età libera 2017 2018– con conferenze gratuite: Incontri di neuroscienze cognitive

Cespón, J., Miniussi, C. (2017). Centre for neuromodulation and neurorehabilitation: integrating non-invasive brain stimulation within multimodal cognitive rehabilitation programmes. IPA Bulletin, Volume 34, 3

Trentino newspaper

Miniussi, C (2017). - Questa nostra straordinaria mente Pubblicato sul Trentino 27/10/2017 <http://unitn.waypress.eu/RassegnaStampa/LetturaNL.aspx?dest=elisabetta.brunelli@unitn.it&cod=272017VE6530910002>

Hafricah net

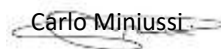
Stimolazione Elettrica Transcranica: cosa, come e a chi. Intervista a Carlo Miniussi (2017) Hafricah net <http://www.hafricah.net/stimolazione-elettrica-transcranica-carlo-miniussi/>

**2015**

Inside Interviews Magstim

10/05/2015 Inside Interviews - 5 minutes with leading researchers on Transcranial Brain stimulation (Professor Carlo Miniussi) Oxford UK Magstim Company Limited Pubblicato il 6 ago 2015 <https://www.youtube.com/watch?v=RpaF9IUInE8>

The undersigned hereby consent the use of personal data provided that it will be done in accordance with European regulations.

 Carlo Miniussi