

Curriculum vitae

Elisa Carlino

PERSONAL DATA

Name and surname: Elisa Carlino

Date of birth: 24-06-1982

Nationality: Italian

Marital status: married, two daughters (birth dates 04/05/2016; 28/09/2021)

CURRENT POSITION

01/04/2022 **Associate Professor:** Department of Neuroscience, University of Turin, Italy.
Disciplinary Field: 05/D1– Physiology.

EDUCATION

2011 **PhD in Experimental Neuroscience**, XXIV cycle, University of Turin. Thesis title: “The study of placebo and nocebo effects on pain and motor performance”

2018 **National Scientific qualification as assistant professor**, Disciplinary Field of 05/D1 –Physiology.

2006 **M.S. Degree (2001-2006) in “Scienze e Tecniche Neuropsicologiche” and “Scienze della Mente”** University of Turin, Faculty of Psychology. Graduated With Highest Honors (110/110 cum laude). Thesis Title: “La neuropsicologia dell’effetto placebo”

POSITIONS AND SCIENTIFIC APPOINTMENTS

2019-2022 **Research Associate, RTD-B:** Department of Neuroscience, University of Turin Medical School, Turin, Italy. Disciplinary Field: 05/D1

2018 **National Scientific qualification as assistant professor**, Disciplinary Field of 05/D1

2018 **Visiting scientist** l'Aarhus University, Department of Psychology and Behavioural Sciences (Prof. L. Vase)

2012-2018 **Postdoctoral fellow**, University of Turin

2011 **Visiting scientist** at the University Clinic Essen, Institute of Medical Psychology and Behavioral Immunobiology (Prof. M. Schedlowski).

AWARDS AND HONOURS

2015 **EFIC®- IBSA Foundation- EJP Publication Award:** Best Publication Award for the publication “Role of explicit verbal information in conditioned analgesia” (Carlino et al., 2015, EJP). Sponsored by IBSA Foundation for Scientific Research, Switzerland.

2016 **YAP Award: Young Against Pain Award.** Sponsored by SIMPAR.

2014 **IASP Award:** Travel Grant to attend the 15th World Congress on Pain, Buenos Aires, Argentina. Sponsored by IASP.

- 2014 **Keystone Symposia scholarship:** Travel Grant to attend the meeting on The Brain: Adaptation and Maladaptation in Chronic Pain, Keystone, Colorado. Sponsored by National Institute of Neurological Disorders and Stroke, Grant #1R13NS087854-01.
- 2013 **Giovedì Scienza Award:** runner up.

COLLABORATIONS

University of Genova
Aarhus University
Deakin University
Leuven University

GRANTS AND FELLOWSHIPS AS PI

- 2022** Grant for internazionalization (15000 euro).
- 2021** Research funding for the project “Studio dell’effetto placebo sui Sistemi sensoriali e motori”, Carlo Molo Foundation (25000 euro).
- 2021** Research funding for the project “Mapping the placebo effect”, Department of Neuroscience “Rita Levi Montalcini” (4438.89 euro).
- 2020:** Research funding for the project “Mapping of placebo effect”, Department of Neuroscience “Rita Levi Montalcini”, University of Turin, Italy (1978.96 euro).
- 2020:** Research funding for new researchers, Department of Neuroscience “Rita Levi Montalcini”, University of Turin, Italy (2857.14 euro).
- 2018:** Research Scholarship within the Grant “Post-Doctoral Fellowship-year 2018”. (27000 euro).

EDITORIAL ACTIVITY

- 2016** Referee for many scientific Journals like: European Journal of Pain; Plos One; Jama; International Journal of Psychophysiology; Annals of Behavioral Medicine; Journal of Alternative and Complementary Medicine; Inquiry; Psychosomatic Medicine; Pain Research and Management; Biology Letters; Journal of Pain; European Journal of Neuroscience
- 2015** Editor of the Italian edition of the book: “Mind Change-Cambiamento Mentale. Come le tecnologie digitali stanno lasciando un'impronta sui nostri cervelli”, Susan Greenfield, Giovanni Fioriti Editore, Collana: Naviganti.

DISSEMINATION (2012-2023)

1. “Placebo, nocebo e fattori di contesto”. – Speaker for the Master of Science in Advanced Osteopathic Practice. Online Course, January 21, 2023.
2. Placebo response and its relation with the Immune System in the session “Addressing the effect of Placebo, Nocebo and Contextual factors in RMDs – Speaker at EULAR 2022 Congress, June 01, 2022.
3. “Placebo, nocebo e fattori di contesto”. – Speaker for the Master of Science in Advanced Osteopathic Practice. Online Course, February 19, 2022.
4. “Placebo, nocebo e fattori di contesto”. – Speaker for the Master of Science in Advanced Osteopathic Practice. Online Course, January 9, 2021.

5. "Relazione medico paziente: cosa fare se compromessa". – Speaker at the II congress Qualità ed umanizzazione. Online Course, November 21-22, 2020.
6. "Parole e farmaci: stesso meccanismo d'azione" - Speaker at the congress "Metodi ed interventi psicologici in ambito medico". Roma, Italy, October 24, 2020.
7. "Parole e farmaci: stesso meccanismo d'azione"- Speaker at the congress "Qualità ed umanizzazione: aver cura delle professioni di cura". Marina di Massa, Italy, October 25-26, 2019.
8. "Psico-neuro-fisiologia dell'effetto Placebo e Nocebo". Speaker at the XIX edition of Capita Selecta. Savona, Italy, December 18, 2018.
9. "The nature of placebo and nocebo effects in functional neurologic disorders". Invited Lecture. Aarhus University, Denmark, February 22, 2018.
10. "Placebo effect: from pain to motor performance". Speaker at the XX National Congress CRel. Roma, Italy, April 27-29, 2017.
11. "Expectation of L-dopa intake in Parkinson's disease: an EEG study". Speaker at the 1st official SIPS conference on placebo studies. Leiden, Amsterdam, April 2-4, 2017.
12. "Placebo and nocebo effects". Speaker at the course: XVII Programma di attività FORMATIVA. Bologna, Italy, Nov 10-11, 2016.
13. "L'effetto placebo: tra ricerca e clinica". Speaker at the Café Philosophique, Bologna, Italy, Dec 3, 2015.
14. "Le parole che curano: complessità e relazione di cura". Speaker at course "Non- technical skills: il paziente esperto risorsa per l'Umanizzazione dei processi di cura". Catania, Italy, Nov 26, 2015.
15. "Effetto placebo". Speaker at the School of Rheumatology, Bologna, Italy, Sep 24, 2015.
16. "Event-related potential and placebo effects". Speaker at the NEURONUS 2015 IBRO & IRUN Neuroscience Forum, Krakow, Poland, Apr 17-19, 2015
17. "Effetto placebo". Speaker at the VII congresso nazionale SIPO, Bergamo, Italy, Nov 13-15, 2014
18. "Placebo effect: neurobiology and clinical practice". Speaker at the 3rd International Conference on Pain and Physiotherapy, Siviglia, Spain, Oct 17-18, 2014.
19. "Rivalutazione della risposta clinica al placebo". Speaker at the 25° SID National Congress - Bologna, Italy, May 28-31, 2014.
20. "Clinical use of placebo and nocebo effects". Speaker at the Refresher Course - Clinical Therapeutics: Latest Developments in Non-Pharmacological Pain Treatment - EFIC, Firenze, Italy Oct 8-12, 2013.
21. "Placebo effect and pain". Speaker at the Educational Workshop on Placebo effect, SINAPSA, Lubiana, Slovenia, Sep 27-30, 2013.
22. "Placebo effect: from the neurobiology to the clinical practice". Speaker at the Insubria Summer School on Clinical Neuropsychopharmacology. The rational use of CNS drugs. Varese, Italy, June 26, 2013.
23. "Placebo effect: how to use it in clinical practice". Speaker at the Master in Science Communication, Milano, Italy, May 16, 2013.
24. "Placebo effect: definition, mechanisms and neurobiology" and "Placebo effect and motor performance". Speaker at the Master in Musculoskeletal Disorders Rehabilitation, Genova, Italy, Dec 16, 2012.

25. “Mechanisms of placebo effects”. Speaker at the Satellite Symposium on Placebo effect, IASP, Milano, Italy, Aug 26, 2012.
26. “Placebo effect: how words and rituals change the patient’s brain”. Speaker at the Symposium “Psychopathologies, Psychotherapies and Neuroscience”, SOPSI, Roma, Italy, Feb 16-18, 2012.

BIBLIOMETRIC INDEXES (SCOPUS 2023)

Number of published papers: 40

Number of published papers as first, last or corresponding author: 25

Number of received citations: 1384

H-index: 21

Scopus Author ID: 24480651100

ORCID ID: 0000-0001-8472-656X

LIST OF PUBLICATIONS

1. Camerone, E.M., Battista, S., Benedetti, F., **Carlino, E.**, Sansone, L.G., Buzzatti, L., Scafoglieri, A., Testa, M. (2022). The Temporal Modulation of Nocebo Hyperalgesia in a Model of Sustained Pain, 13, 807138.
2. Rossettini, G., Colombi, A., **Carlino, E.**, Manoni, M., Mirandola, M., Polli, A., Camerone, E.M., Testa, M. (2022) Unraveling Negative Expectations and Nocebo-Related Effects in Musculoskeletal Pain. 13.789377.
3. Piedimonte, A., Zamfira, D.A., Guerra, G., Vighetti, S., **Carlino, E.** (2021). Pain expectation and avoidance in the social context: an electrophysiological study. The Journal of Physiological Science, in press, DOI: 10.1186/s12576-021-00813-1.
4. Camerone, E.M., Wiech, K., Benedetti, F., **Carlino, E.**, Job, M., Scafoglieri, A., Testa, M. (2021). ‘External timing’ of placebo analgesia in an experimental model of sustained pain. European Journal of Pain (United Kingdom), 25(6), 1303–1315.
5. Camerone, E.M., Piedimonte, A., Testa, M., Benedetti, F., **Carlino, E.** (2021). The Effect of Temporal Information on Placebo Analgesia and Nocebo Hyperalgesia. Psychosomatic medicine, 83(1), 43–50.
6. Piedimonte, A., Benedetti, F., Guerra, G., Zamfira, D., Vighetti, S., **Carlino, E.** (2020). I expect what you expect: An electrophysiological study on social expectation of pain. Psychophysiology, 57(12), e13666.
7. Piedimonte, A., Barbani, D., Benedetti, F., Zamfira, D.A., **Carlino, E.** (2020). The placebo effect in breath holding: a preliminary behavioral investigation. Neuroscience letters, 2020, 739, 135434.
8. Benedetti, F., **Carlino, E.**, Frisaldi, E., Piedimonte, A., et al., Placebo and nocebo responses in Parkinson’s disease (2020). The Neuroscience Of Parkinson’s Disease, Edited by Victor R. Preedy, Elsevier Inc. Cap. 31.
9. Mitsikostas, D.D., Blease, C., **Carlino, E.**, ...Wager, T.D., Benedetti, F. (2020). European Headache Federation recommendations for placebo and nocebo terminology. Journal of Headache and Pain, 21(1), 117.
10. Carlino, E., Vase, L., Piedimonte, A. (2019) Mechanisms of Placebo and Nocebo. In: Mitsikostas D., Benedetti F. (eds) Placebos and Nocebos in Headaches. Headache. Springer.

11. **Carlino, E.**, Piedimonte, A., Romagnolo, A., ... Benedetti, F. (2019). Verbal communication about drug dosage balances drug reduction in Parkinson's disease: Behavioral and electrophysiological evidences. *Parkinsonism and Related Disorders*. 65:184-189.
12. Matthiesen, S.T., Lunde, S.J., Wohler Kjør, S., **Carlino, E.**, Vase, L. Placebo analgesia effects across central nervous system diseases: What do we know and where do we need to go? (2019). *Pain Reports*. 4(3): e717.
13. **Carlino, E.**, Vase, L. Can knowledge of placebo and nocebo mechanisms help improve randomized clinical trials? (2018). *Int Rev Neurobiol*, 138:329-357.
14. Rossetini, G., **Carlino, E.**, Testa, M. Clinical relevance of contextual factors as triggers of placebo and nocebo effects in musculoskeletal pain. (2018). *BMC Musculoskeletal Disorders*, 19(1):27.
15. Frisaldi, E., **Carlino, E.**, Zibetti, M., Barbiani, D., Dematteis, F., Lanotte, M., Lopiano, L., Benedetti, F. (2017) The Placebo Effect on Bradykinesia in Parkinson's Disease With and Without Prior Drug Conditioning. *Movement Disorders*, 32(10):1474-1478.
16. Piedimonte, A., Guerra, G., Vighetti, S., **Carlino, E.** (2017). Measuring expectation of pain: contingent negative variation in placebo and nocebo effects. *European Journal of Pain*, 21(5):874-885.
17. **Carlino, E.**, Piedimonte, A., & Benedetti, F. (2016). Nature of the placebo and nocebo effect in relation to functional neurologic disorders. In: Hallett M, Stone J, Carson A, eds., *Functional Neurologic Disorders*, Volume 139 of the *Handbook of Clinical Neurology* series. Amsterdam: Elsevier, 2016: 597-606.
18. Benedetti, F. Frisaldi, E., **Carlino, E.**, Giudetti, L., Pampallona, A., Zibetti, M., Lanotte, M., Lopiano, L. (2016). Teaching neurons to respond to placebos. *Journal of Physiology*, 594(19), 5647-60.
19. Benedetti, F., **Carlino, E.**, & Piedimonte, A. (2016). Increasing uncertainty in CNS clinical trials: the role of placebo, nocebo, and Hawthorne effects. *Lancet Neurol*, 15(7), 736-47.
20. **Carlino, E.**, & Benedetti, F. (2016). Different contexts, different pains, different experiences. *Neuroscience*, 3(338), 19-26.
21. **Carlino, E.**, Guerra, G., & Piedimonte, A. (2016). Placebo effects: From pain to motor performance. *Neuroscience Letters*, 6(632), 224-30.
22. **Carlino, E.**, Sigaud, M., Rosato, R., Vighetti, S., Rocca, P. (2015). Electroencephalographic connectivity analysis in schizophrenia. *Neuroscience Letters*, 604, 145–50.
23. **Carlino, E.**, Torta, D. M. E., Piedimonte, A., Frisaldi, E., Vighetti, S., & Benedetti, F. (2015). Role of explicit verbal information in conditioned analgesia. *European Journal of Pain*. 19(4):546-53.
24. Piedimonte, A., Benedetti, F., & **Carlino, E.** (2015). Placebo-induced decrease in fatigue: evidence for a central action on the preparatory phase of movement. *The European Journal of Neuroscience*. 41(4), 492–497.
25. **Carlino, E.**, & Benedetti, F. (2014). Placebo and Nocebo Effects. In D. I. Mostofsky (A C. Di), *The Handbook of Behavioral Medicine* (pp. 36–57). John Wiley & Sons, Ltd.
26. **Carlino, E.**, Benedetti, F., & Pollo, A. (2014). The Effects of Manipulating Verbal Suggestions on Physical Performance. *Zeitschrift für Psychologie*, 222(3), 154–164.
27. **Carlino, E.**, Frisaldi, E., & Benedetti, F. (2014). Pain and the context. *Nature Reviews. Rheumatology*, 10(6), 348–355.

28. **Carlino, E.**, Frisaldi, E., Rainero, I., Asteggiano, G., Cappa, G., Tarenzi, L., ... Benedetti, F. (2014). Nonlinear analysis of electroencephalogram in frontotemporal lobar degeneration. *Neuroreport*, 25(7), 496–500.
29. **Carlino, E.**, Piedimonte, A., & Frisaldi, E. (2014). The effects of placebos and nocebos on physical performance. *Handbook of Experimental Pharmacology*, 225, 149–157.
30. Frisaldi, E.*, **Carlino, E.***, Lanotte, M., Lopiano, L., & Benedetti, F. (2014). Characterization of the thalamic-subthalamic circuit involved in the placebo response through single-neuron recording in Parkinson patients. *Cortex; a Journal Devoted to the Study of the Nervous System and Behavior*, 60C, 3–9. *equally contributed
31. **Carlino, E.**, Pollo, A., & Benedetti, F. (2012). The placebo in practice: how to use it in clinical routine. *Current opinion in supportive and palliative care*, 6(2), 220–225.
32. **Carlino, E.**, Sigaud, M., Pollo, A., Benedetti, F., Mongini, T., Castagna, F., ... Rocca, P. (2012). Nonlinear analysis of electroencephalogram at rest and during cognitive tasks in patients with schizophrenia. *Journal of psychiatry & neuroscience: JPN*, 37(4), 259–266.
33. Mongini, F., Evangelista, A., Milani, C., Ferrero, L., Ciccone, G., Ugolini, A., ... **Carlino E.**, ... Galassi, C. (2012). An educational and physical program to reduce headache, neck/shoulder pain in a working community: a cluster-randomized controlled trial. *PloS one*, 7(1), e29637.
34. Pollo, A., **Carlino, E.**, Benedetti, F. (2012) “Culture, placebo and analgesia: clinical and ethical considerations” in *Culture, Brain, and Analgesia: Understanding and Managing Pain in Diverse Populations Book*, Incayawar, M., & Todd, K. H. (ed), Oxford University Press.
35. Pollo, A.*, **Carlino, E.***, Vase, L., & Benedetti, F. (2012). Preventing motor training through nocebo suggestions. *European journal of applied physiology*, 112(11), 3893-903. *equally contributed
36. Benedetti, F., **Carlino, E.**, & Pollo, A. (2011). Hidden administration of drugs. *Clinical pharmacology and therapeutics*, 90(5), 651–661.
37. Benedetti, F., **Carlino, E.**, & Pollo, A. (2011). How placebos change the patient’s brain. *Neuropsychopharmacology: official publication of the American College of Neuropsychopharmacology*, 36(1), 339–354.
38. **Carlino, E.**, Pollo, A., & Benedetti, F. (2011). Placebo analgesia and beyond: a melting pot of concepts and ideas for neuroscience. *Current opinion in anaesthesiology*, 24(5), 540–544.
39. Pollo, A., **Carlino, E.**, & Benedetti, F. (2011). Placebo mechanisms across different conditions: from the clinical setting to physical performance. *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*, 366(1572), 1790–1798.
40. **Carlino, E.**, Benedetti, F., Rainero, I., Asteggiano, G., Cappa, G., Tarenzi, L., ... Pollo, A. (2010). Pain perception and tolerance in patients with frontotemporal dementia. *Pain*, 151(3), 783–789.
41. Pollo, A., **Carlino, E.**, & Benedetti, F. (2008). The top-down influence of ergogenic placebos on muscle work and fatigue. *The European journal of neuroscience*, 28(2), 379–388.

TEACHING ACTIVITY

Total hours of frontal teaching activity per year: 165

2019-present	Professor for the course; “Funzionamento del corpo umano”. MED3032C. 45 hours.
2019-present	Professor for the course: “Le basi farmacologiche e psicofisiologiche della terapia”. PSI0572. 18 hours.
2020-present	Professor for the course: “Human Behavioral Neuroscience”. PSI0968. 36 hours.
2021-present	Professor for the course “Neurophysiology and neuropharmacology”. NEU02678. 22 hours.
2021-present	Professor for the course “Neuroanatomia e neurofisiologia”. MM0188. 32 hours
2023	Professor for the course “Corso di laurea in Tecniche di Neurofisiopatologia”. NEU0219B. 12 hours