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Scopus Source (updated May 28, 2026):
H-Index: 22
Documents: 58
Total citations: 2,404

PRESENT POSITION

- Associate Professor, Human Physiology, Univ Modena & Reggio Emilia (2006-present)

ACADEMIC ROLES AND RESPONSIBILITIES

- Director of the M.D. Degree Program, Univ Modena & Reggio Emilia (elected for two terms: 2016-2019; 2019-2022)
- Deputy Director of the M.D. Degree Program, UNIMORE (2015-2016)
- Delegate for Education of the Dept. BMN, UNIMORE (2023-present)
- Member of the University Disciplinary Board, UNIMORE (2023-present)
- Director of the Advanced Training Course "Teaching Medicine with patient partners" (2019)

EDUCATION:

- Specialty in Neurology, Univ Modena 1990
 - M.D. Degree, Summa cum laude, Univ Modena 1986
- both dissertations focussed on eye movements (optokinetic nystagmus)

MAIN HONORS:

- Presentation selected by the organizing Committee (Prof. Rudiger Seitz) among the highlights at Human Brain Mapping Meeting 2008, Melbourne, Australia
- Moruzzi Fellowship for Neurophysiology (Fidia Research Foundation, 1991; Awarded by the Scientific Board of Advisors: Floyd Bloom, Erwin Neher, Tomas Hokfelt, Eric Shooter, Rodolfo Llinas, Paul Greengard and Gerald Fischbach)
- Award for Best MD Dissertation, Univ Modena 1986, and publication of the dissertation ("dignità di stampa")

PROFESSIONAL EVENTS:

- Associate Professor, Human Physiology, Univ Modena & Reggio Emilia (2006-present)
- Assistant Professor, Human Physiology, Univ Modena (1995-2006)
- Post-Grad Researcher, Dept Anatomy & Neurobiology, University of California at Irvine (1993- 1994)
- Visiting Post-Grad Researcher, Dept Anatomy & Neurobiology, , University of California at Irvine (1991-1993), supervisor Prof. Roland A. Giolli
- Research Fellow, Institute of Human Physiology, Univ Modena (1986-1991)

MAIN RESEARCH AREAS:

At the beginning of my research activities, I focused primarily on oculomotor control, specifically on the optokinetic reflex and saccadic eye movements, and on the cortical and subcortical centers involved in their regulation, using imaging techniques (2-deoxyglucose – 2-DG, labeled tracers) and electrophysiological recordings.

Later, I extended this interest to general motor control, employing functional neuroimaging techniques in humans (functional magnetic resonance imaging, fMRI). I particularly focused on the cognitive properties of the motor system: movement imagination and movement observation (neural mirror system).

This research interest has intertwined with a line of investigation on pain, exploring both the perceptual aspects of pain sensitivity, and the study of neural fMRI activations during the perception and observation of painful stimuli, the interpretation of pain-related language, and the cognitive modulation of pain (attention, anticipation, suggestions, placebo). This has also led to an interest in the neural bases of emotional expressions of different valence (both positive and negative emotions).

RESEARCH COLLABORATIONS

I have collaborated, and/or I am presently collaborating, in the field of Magnetic Resonance imaging, neurophysiology and cognition research, with several national and international research groups, among which: Roland A. Giolli, Robert H. Blanks and coll. (UC Irvine, USA); Giacomo Rizzolatti, Vittorio Gallese and coll. (Parma); Fabrizio Benedetti and coll. (Torino); Patrick Haggard, Giandomenico Iannetti and coll. (London, UK); Placebo Imaging Consortium (Ulrike Bingel, Germany, Tor D. Wager, USA, et al.: <https://placebo-imaging-consortium.github.io/>); Alexa Müllner-Huber (Vienna, Austria); Pietro Pietrini, Emiliano Ricciardi, Giacomo Handjaras and coll. (Lucca); Elena Gherri and coll. (Bologna); Francesca Frassinetti and coll. (Bologna); Marianna Semprini and coll. (IIT Genova); Antonio Sgorbissa and coll. (Genova); Simone Pittaccio and coll. (CNR Lecco); etc

MAIN FUNDS OBTAINED:

2022: PRIN, PI of Local Unit

2004: PRIN, PI of Local Unit

1997; 1998; 1999; 2000; 2002; 2007; 2017: PRIN, participant

2015, 2016, 2022, 2023: FAR UNIMORE, participant

Other fundings: Human Frontier Science Project, Telethon, Università regione, FCR Modena, FCR Vignola

SCIENTIFIC REVIEWER FOR THE FOLLOWING JOURNALS:

"Neuromuscular disorders"; "European Journal of Applied Physiology"; "Brain Research Bulletin"; "Cerebral Cortex"; "Journal of Neural Transmission"; "Frontiers in Human Neuroscience"; "Behavioral Brain Research"; "PLOS One"; "Brain Sciences"; "Medical Sciences"; "Applied Sciences"; "Sensors"; "Osteology"; "NeuroSci"; "Languages"; "IJERPH"; "Healthcare"; "Diagnostics"; "Biosensors"; "Bioengineering"; "Behavioral Sciences"; "Brain Topography"; "Brain and Cognition"; "Psychophysiology"; "NeuroImage"; "Scientific Reports"

MAIN FURTHER EDITORIAL/REVIEWING ACTIVITIES:

Member Editorial Board of "Brain Sciences", Section "System Neuroscience" (2024-present)

Editor, Frontiers Research Topic "The brain in pain: a multidimensional approach" (2022-2024)

Guest Editor, Frontiers (2023 – present)

Abstract Reviewer for annual HBM Meetings (2009-present)

Guest Academic Editor PLOSOne (2022)

Member "Albo dei Revisori MIUR" (2012-present)

Reviewer for Fulbright Visiting Scholar Program (2010)

MAIN TEACHING

- I teach "Physiology" and "Neurophysiology" courses for the MD Degree Program; "Neuroscience" courses for the Psychology BA, for the AI Engineering MA program and Computer Engineering MA program at UNIMORE
- I teach in the "Advanced methodologies and technologies for neurophysiological research" course in the Neuroscience PhD Program at UNIMORE
- I have supervised PhD students, and I am currently supervisor of two PhD students, of the UNIMORE "Neuroscience" PhD program

INVITED LECTURES

Orizzonti di terapia del dolore – IRCSS Azienda Ospedaliera-Universitaria di Bologna - Policlinico S.Orsola-Malpighi, Aula Conferenze Società Medica Chirurgica di Bologna (15-16 November 2024): "Modulazione cognitiva del dolore anticipazione e placebo"

Le Neuroscienze, Verso una comprensione integrata tra attività mentali e relazioni sociali – Women in Medicine Association, Reggio Emilia (6 June 2023): "Empatia, emozioni, dolore: dialogo fra due neuroscienziate", with Prof. Francesca Benuzzi

I Media ed il mondo della scuola – Press Association Emilia-Romagna, Reggio Emilia (22 March 2023): "Le condizioni per l'apprendimento"

Tour inside the shoulder: dalla instabilità alla capsulite –Modus Clinic, Castelfranco Emilia MO (29 March 2019): "Meccanismi di cronicizzazione del dolore nella capsulite"

Tour inside the shoulder: dalla instabilità alla capsulite –Modus Clinic, Castelfranco Emilia MO (29 March 2019): "Controllo neuromuscolare: hardware, software e sensori propriocettivi"

Storia della Medicina e Antropologia medica XIV ciclo, Modena (29 November 2017): "Le epoche del dolore"

"Prospettive di Neuroscienze", Consorzio Inter-universitario "Istituto Nazionale di Neuroscienze" (INN) (Verona, 27-28 June 2016): "Correlati neurali del dolore, delle emozioni e dell'empatia"

È nato prima l'uovo o la gallina? Seminari transdisciplinari di PsicoNeuroEndocrinologia (PNEI), Il Ciclo, Modena (1 March 2016): "Dolore: da semplice sintomo ad esperienza esistenziale complessa"

Physical Therapist day, Modus Clinic (Castelfranco, Modena; 22 November 2014): "Dolore e trigger points nelle sindromi miofasciali"

Congress AIFI – SIFIR "Physical Therapy for pain Management: New perspectives and Best practices", Lecce (9-10 October 2014): "Il ruolo del placebo e modificazioni corticali delle aree del dolore"

Physical Therapist day, Modus Clinic (Fanano, Modena; 8 September 2014): "Dolore"

B.U.A.! -Biopsychosocial Update on Analgesia (Il dolore in una prospettiva bio-psico-sociale), Modena (21 November 2012): "La modulazione cognitiva del dolore: basi neurofisiologiche e meccanismi d'azione"

Residential Course "I neuroni specchio e la mirror-therapy", MultiMedica, Limbiate MB (18 June 2011):

- Relazione: "Basi neurali del sistema specchio"
- Relazione: "Possibili applicazioni cliniche del sistema specchio"

La palestra nel cervello - L'Immagine Motoria come strumento del recupero (vent'anni di esperienza), Centro Studi Riabilitazione Neurocognitiva, Santorso VI (November 2009): "Basi neurali dell'immaginazione motoria"

14th International Conference on Functional Mapping of the Human Brain, Melbourne, Australia, June 15-19, 2008 (invited oral presentation, chosen among the highlights of the meeting): "Brain correlates of conditioned placebo analgesia"

Functional Magnetic Resonance Imaging (fMRI): Clinical and experimental experiences, Ospedale Kolliker, Torino (October 2007): "L'fMRI nello studio dei sistemi sensitivo e motorio"

5th International fMRI meeting and Autumn School, Sorrento NA (November 2005): "fMRI in neurophysiology"

4th International fMRI meeting and Autumn School, Sorrento NA (November 2004): "fMRI in neurophysiology: Cognitive aspects of the cortical motor system"

VII Meeting of the Italian group for the study of eye movements, Sorrento NA (June 1996): "Aspetti anatomici del nistagmo ottocinetico"

Dipartimento di Psicologia dell'Università di Trieste (Gennaio 1995): "Percezione del movimento e controllo oculomotorio"

Istituto di Fisiologia dell'Università di Modena (Ottobre 1993): "Afferenze ed efferenze delle strutture visive primarie coinvolte nel riflesso ottocinetico"

Department of Anatomy and Neurobiology, University of California at Irvine, UCI (September 1993): "Visual oculomotor control"

Department of Anatomy and Neurobiology, University of California at Irvine, UCI (January 1993): Journal Club Presentation

Department of Anatomy and Neurobiology, University of California at Irvine, UCI (January 1992): "Optokinetic Reflex in Rodents: 1) Effects of Kainic Acid Intraocular injection; 2) Metabolic activity of subcortical structures".

PEER REVIEWED ARTICLES IN INTERNATIONAL JOURNALS

- 1) Ballotta D, Maramotti R, Borelli E, Lui F, Pagnoni G. Voluntary modulation of mental effort affects the attentional shift induced by angry faces in women. *Neuroimage*. 2026 Apr 15;330:121848. doi: 10.1016/j.neuroimage.2026.121848
- 2) Ballotta D, Casadio C, Tondelli M, Zanelli V, Ricci F, Carpentiero O, Lui F, Filippini N, Chiari A, Molinari MA, Benuzzi F. The olfactory functional network in the Alzheimer's disease continuum: a resting state fMRI study. *Front Aging Neurosci*. 2026 Jan 13;17:1744413. doi: 10.3389/fnagi.2025.1744413
- 3) Ballotta D, Maramotti R, Borelli E, Lui F, Pagnoni G. Angry facial expressions elicit a late attentional withdrawal. *Sci Rep*. 2025 Nov 24;15(1):41632. doi: 10.1038/s41598-025-25609-w
- 4) Casadio C, Ballotta D, Ricci F, Zanelli V, Carpentiero O, Corni MG, Bardi E, Filippini N, Lui F, Nichelli PF, Molinari MA, Benuzzi F. Olfactory Testing and Gray Matter Volume: A Combined Approach to

Predict the Conversion to Alzheimer. *Brain Sci.* 2025 Mar 15;15(3):310. doi: 10.3390/brainsci15030310

- 5) Zanelli V., Lui F.*, Casadio C., Ricci F., Carpentiero O., Ballotta D., Ambrosecchia M. Ardizzi M., Gallese V., Porro C.A., Benuzzi F. Unveiling the Truth in Pain: Neural and Behavioral Distinctions between Genuine and Deceptive Pain. *Brain Sci.* 2025 Feb 12;15(2):185. doi: 10.3390/brainsci15020185 (* Corresponding Author)
- 6) Sola C., Zanelli V., Casadio C., Molinari M.A., Ricci F., Carpentiero O., Tondelli M., Lui F., Nichelli P.F., Benuzzi F. Understanding basic and social emotions in Alzheimer's disease and frontotemporal dementia *Front Psychol.* 2025 Feb 7;16:1535722. doi: 10.3389/fpsyg.2025.1535722
- 7) Simonelli F, Handjaras G, Benuzzi F, Bernardi G, Leo A, Duzzi D, Cecchetti L, Nichelli PF, Porro CA, Pietrini P, Ricciardi E, Lui F. (2024). Sensitivity and specificity of the action observation network to kinematics, target object, and gesture meaning. *Human Brain Mapping*,45(11). doi: 10.1002/hbm.26762. [n. cit.: WOS 0; Scopus 0; IF 3.5, Q1; CiteScore 8.3, Q1; SJR 1.626, Q1]
- 8) Benuzzi F, Müllner-Huber A, Porro CA, Lui F. (2024) Editorial: The brain in pain: a multidimensional approach. *Front Psychol.* 15:1401784. doi: 10.3389/fpsyg.2024.1401784. [n. cit.: WOS 0; Scopus 0; publ. year: IF 2.6, Q2; CiteScore 5.3, Q1; SJR 0.800, Q1]
- 9) Casadio C, Patané I, Candini M, Lui F, Frassinetti F, Benuzzi F. (2024) Effects of the perceived temporal distance of events on mental time travel and on its underlying brain circuits. *Exp Brain Res.* 2(5):1161-1174. doi: 10.1007/s00221-024-06806-x. [n. cit.: WOS 1; Scopus 1; publ. year: IF 1.7, Q4; CiteScore 3.6, Q2; SJR 0.613, Q3]
- 10) Serafini A, Rossi MG, Alberti S, Borellini E, Contini A, Cernesi S, D'Amico R, Díaz Crescitelli ME, Ferri P, Fornaciari D, Ghirotto L, Giugni L, Lui F, Rossi F, Cuoghi Costantini R, Santori V, Padula MS. (2024) Effectiveness of patients' involvement in a medical and nursing pain education programme: a protocol for an open-label randomised controlled trial including qualitative data. *BMJ Open* 14(1):e078670. doi: 10.1136/bmjopen-2023-078670. [n. cit.: WOS 0; Scopus 0; publ. year: IF 2.4, Q1; CiteScore 4.4, Q1; SJR 0.971, Q1]
- 11) Casadio C, Patané I, Ballotta D, Candini M, Lui F, Benuzzi F, Frassinetti F. (2023) Spatial attention modulation of the brain network involved in mental time travel. *Neuropsychology.* 38(3):268-280. doi: 10.1037/neu0000940. [n. cit.: WOS 1; Scopus 1; publ. year: IF 2.6, Q2; CiteScore 4.1, Q2; SJR 0.858, Q1]
- 12) Ferri P, Vivarelli C, Lui F, Alberti S, Rovesti S, Serafini A, Di Lorenzo R, Amati G, Padula MS. (2023) Evaluation of an interprofessional education intervention in partnership with patient educators. *Acta Biomed.* 94(5):e2023250. doi: 10.23750/abm.v94i5.14825. [n. cit.: Scopus 1; publ. year: CiteScore 4.3, Q1; SJR 0.449, Q2]
- 13) Borelli E, Benuzzi F, Ballotta D, Bandieri E, Luppi M, Cacciari C, Porro CA, Lui F. (2023) Words hurt: common and distinct neural substrates underlying nociceptive and semantic pain. *Front Neurosci.* 17:1234286. doi: 10.3389/fnins.2023.1234286. [n. cit.: WOS 1; Scopus 1; publ. year: IF 3.2, Q2; CiteScore 6.2, Q2; SJR 1.063, Q2]
- 14) Benuzzi F, Ballotta D, Casadio C, Zanelli V, Porro CA, Nichelli PF, Lui F. (2023) "When You're Smiling": How Posed Facial Expressions Affect Visual Recognition of Emotions. *Brain Sci.* 13(4):668. doi: 10.3390/brainsci13040668. [n. cit.: WOS 1; Scopus 1; publ. year: IF 2.7, Q3 (50.8%); CiteScore 4.8, Q3; SJR 0.796, Q2]

- 15) Ballotta D, Maramotti R, Borelli E, Lui F, Pagnoni G. (2023) Neural correlates of emotional valence for faces and words. *Front Psychol.* 14:1055054. doi: 10.3389/fpsyg.2023.1055054. [n. cit.: WOS 1; Scopus 2; publ. year: IF 2.6, Q2 (25.5%); CiteScore 5.3, Q1; SJR 0.8, Q2]
- 16) Rossi J, Cavallieri F, Giovannini G, Benuzzi F, Ballotta D, Vaudano AE, Ferrara F, Contardi S, Pietrangelo A, Corradini E, Lui F, Meletti S. (2022) Can Disruption of Basal Ganglia-Thalamocortical Circuit in Wilson Disease Be Associated with Juvenile Myoclonic Epilepsy Phenotype? *Brain Sci.* 12(5):553. doi: 10.3390/brainsci12050553. [n. cit.: WOS 2; Scopus 1; publ. year: IF 3.3, Q3; CiteScore 3.9, Q3; SJR 0.752, Q3]
- 17) Borelli E, Bigi S, Potenza L, Eliardo S, Artioli F, Mucciarini C, Cottafavi L, Cagossi K, Razzini G, Cruciani M, Pietramaggiore A, Fantuzzi V, Lombardo L, Ferrari U, Ganfi V, Lui F, Odejide O, Cacciari C, Porro CA, Zimmermann C, Efficace F, Bruera E, Luppi M, Bandieri E. (2021) Changes in Cancer Patients' and Caregivers' Disease Perceptions While Receiving Early Palliative Care: A Qualitative and Quantitative Analysis. *Oncologist*, 26(12), pp. e2274–e2287. doi: 10.1002/onco.13974. [n. cit.: WOS 15; Scopus 15; publ. year: IF 5.837, Q2; CiteScore 8.5, Q1; SJR 1.813, Q1]
- 18) Borelli E, Bigi S, Potenza L, Artioli F, Eliardo S, Mucciarini C, Cagossi K, Razzini G, Pasqualini A, Lui F, Ferlazzo F, Cruciani M, Bruera E, Efficace F, Luppi M, Cacciari C, Porro CA, Bandieri E. (2021) Different semantic and affective meaning of the words associated to physical and social pain in cancer patients on early palliative/supportive care and in healthy, pain-free individuals. *PLoS One.* 16(3):e0248755. doi: 10.1371/journal.pone.0248755. [n. cit.: WOS 9; Scopus 9; publ. year: IF 3.752, Q2; CiteScore 5.6, Q1; SJR 0.852, Q1]
- 19) Zunhammer M, Spisák T, Wager TD, Bingel U; Placebo Imaging Consortium (Atlas L., Benedetti F., Büchel C., Choi J.C., Colloca L., Duzzi D., Eippert F., Ellingsen D.M., Elsenbruch S., Geuter S., Kaptchuk J., Kessner, Kirsch I., Kong J., Lamm C., Leknes S., Müllner-Huber A., Lui F., Porro C.A., Rütgen M., Schenk L., Schmid J., Spisák T., Theysohn N., Tracey I., Wrobel N., Zeidan F.) (2021) Meta-analysis of neural systems underlying placebo analgesia from individual participant fMRI data. *Nat Commun.* 12(1):1391. doi: 10.1038/s41467-021-21179-3. [n. cit.: WOS 75; Scopus 80; publ. year: IF 17.694, Q1; CiteScore 23.2, Q1; SJR 4.846, Q1]
- 20) Zunhammer M., Bingel U., Wager T.D. Placebo Imaging Consortium (Atlas L., Benedetti F., Büchel C., Choi J.C., Colloca L., Duzzi D., Eippert F., Ellingsen D.M., Elsenbruch S., Geuter S., Gollub R., Kaptchuk J., Kessner, Kirsch I., Kong J., Lamm C., Leknes S., Müllner-Huber A., Lui F., Porro C.A., Rütgen M., Schenk L., Schmid J., Theysohn N., Tracey I., Wrobel N., Zeidan F.) (2018) Placebo Effects on the Neurologic Pain Signature: A Meta-analysis of Individual Participant Functional Magnetic Resonance Imaging Data. *JAMA Neurol.* 75(11):1321-1330. doi: 10.1001/jamaneurol.2018.2017. [n. cit.: WOS 110; Scopus 121; IF 20.9, Q1; CiteScore 41.9, Q1; SJR 6.194, Q1]
- 21) Benuzzi F., Ballotta D., Handjaras G., Leo A., Papale P., Zucchelli M.A, Molinari M.A., Lui F., Cecchetti L., Ricciardi E., Sartori G., Pietrini P., Nichelli P.F. (2018) Eight weddings and six funerals: an fmri study on autobiographical memories. *Front Behav Neurosci*, 12: 212. doi: 10.3389/fnbeh.2018.00212. [n. cit.: WOS 4; Scopus 4; pub year: IF 2.622, Q2; CiteScore 5.2, Q1; SJR 1.486, Q1]
- 22) Benuzzi F., Lui F.*, Ardizzi M., Ambrosecchia M., Ballotta D., Righi S., Pagnoni G., Gallese V., Porro C.A. (2018) Pain mirrors: neural correlates of observing self or others' facial expressions of pain. *Front Psychol*, 9: 1825 . doi: 10.3389/fpsyg.2018.01825 [n. cit.: WOS 16; Scopus 19; pub year: IF 2.129, Q2; CiteScore 3.0, Q2 SJR 0.997, Q1] (* Corresponding Author)
- 23) Ballotta D., Lui F., Porro C.A., Nichelli P.F., Benuzzi F. (2018) Modulation of neural circuits underlying temporal production by facial expressions of pain. *PLoS One.* 2018 Feb

- 15;13(2):e0193100. doi: 10.1371/journal.pone.0193100. [n. cit.: WOS 15; Scopus 16; pub year: IF 2.776, Q2; CiteScore 5.4, Q1; SJR 1.1, Q1]
- 24) Faralla V., Benuzzi F., Lui F., Baraldi P., Dimitri N., Nichelli P. (2015) Neural correlates in intertemporal choice of gains and losses, *J. Neurosci. Psychol. Econ.*, 8:27-47. 10.1037/npe0000032 [n. cit.: WOS 4; Scopus 6; pub year: IF 1.061, Q2; CiteScore 2.8, Q1; SJR 0.582, Q1]
- 25) Benuzzi F., Zamboni G., Meletti S., Serafini M., Lui F., Baraldi P., Duzzi D., Rubboli G., Tassinari C.A., Nichelli P.F. (2014) Recovery from emotion recognition impairment after temporal lobectomy, *Front. Neurol.*, doi: 10.3389/fneur.2014.00092. [n. cit.: WOS 15; Scopus 14; IF 2.7, Q2; pub year: CiteScore 3.8, SJR 1.166, Q2]
- 26) Mancini F., Bauleo A., Cole J., Lui F., Porro C.A., Haggard P., Iannetti G.D. (2014) Whole-body mapping of spatial acuity for pain and touch, *Ann. Neurol.*, 75:917-924. 10.1002/ana.24179 [n. cit.: WOS 199; Scopus 212; pub year: IF 9.977, Q1; CiteScore 20.6, Q1; SJR 6.021, Q1]
- 27) Huber A., Lui F., Duzzi D., Pagnoni G., Porro C.A. (2014) Structural and functional cerebral correlates of hypnotic suggestibility, *PLoS ONE* 9(3): e93187. doi:10.1371/journal.pone.0093187 [n. cit.: WOS 26; Scopus 27; pub year: IF 3.234, Q1; CiteScore 5.1, Q1; SJR 1.559, Q1]
- 28) Favilla S., Huber A., Pagnoni G., Lui F., Facchin P., Cocchi M., Baraldi P., Porro C.A. (2014) Ranking brain areas encoding the perceived level of pain from fMRI data *NeuroImage*, 90:153-162. doi: 10.1016/j.neuroimage.2014.01.001 [n. cit.: WOS 37; Scopus 36; pub year: IF 6.357, Q1; CiteScore 12.2, Q1; SJR 4.323, Q1]
- 29) Huber A., Lui F., Porro C.A. (2013) Hypnotic susceptibility modulates brain activity related to experimental placebo analgesia, *Pain*, 154:1509-1518. doi: 10.1016/j.pain.2013.03.031. [n. cit.: WOS 28; Scopus 32; pub year: IF 5.836, Q1; CiteScore 10.7, Q1; SJR 2.987, Q1]
- 30) Lui F., Colloca L., Duzzi D., Anchisi D., Benedetti F., Porro C.A. (2010) Neural bases of conditioned placebo analgesia, *Pain*, 151:816-824. 10.1016/j.pain.2010.09.021 [n. cit.: WOS 114; Scopus 122; pub year: IF 5.777, Q1; CiteScore Q1; SJR 2.688, Q1]
- 31) Summers P., Ferraro D., Duzzi D., Lui F., Iannetti G.D., Porro C.A. (2010) A quantitative comparison of fMRI responses to noxious and innocuous stimuli in the human spinal cord, *NeuroImage*, 50:1408-1415. doi: 10.1016/j.neuroimage.2010.01.043 [n. cit.: WOS 46; Scopus 52; pub year: IF 5.895, Q1; CiteScore Q1; SJR 3.654, Q1]
- 32) Benuzzi F., Lui F., Duzzi D., Nichelli P.F., Porro C.A. (2009) Brain networks responsive to aversive visual stimuli in humans, *Magn. Reson. Imaging*, 27:1088-1095. 10.1016/j.mri.2009.05.037 [n. cit.: WOS 10; Scopus 9; pub year: IF 2.026, Q2; CiteScore Q1; SJR 1.024, Q1]
- 33) Lui F., Buccino G., Duzzi D., Benuzzi F., Crisi G., Baraldi P., Nichelli P., Porro C.A., Rizzolatti G. (2008) Neural substrates for observing and imagining non object-directed actions, *Soc. Neurosci.*, 3:261-275. 10.1080/17470910701458551 [n. cit.: WOS 62; Scopus 65; pub year: IF 4.352, Q1; CiteScore Q1; SJR 1.172, Q1]
- 34) Lui F., Duzzi D., Corradini M., Serafini M., Baraldi P., Porro C. A. (2008) Touch or pain? Spatio-temporal patterns of cortical fMRI activity following brief mechanical stimuli, *Pain*, 138:362-374. 10.1016/j.pain.2008.01.010 [n. cit.: WOS 82; Scopus 82; pub year: IF 6.03, Q1; CiteScore Q1; SJR 3.03, Q1]

- 35) Benuzzi F., Lui F., Duzzi D., Nichelli P.F., Porro C.A., (2008) Does it look painful or disgusting? Ask your parietal and cingulate cortex, *J. Neurosci.*, 28:923-931. 10.1523/JNEUROSCI.4012-07.2008 [n. cit.: WOS 122; Scopus 143; pub year: IF 7.452, Q1; CiteScore Q1; SJR 6.678, Q1]
- 36) Benuzzi F., Pugnaghi M., Meletti S., Lui F., Serafini M., Baraldi P., Nichelli P. (2007) Processing the socially relevant parts of faces, *Brain Res. Bull.*, 74:344-356. 10.1016/j.brainresbull.2007.07.010 [n. cit.: WOS 27; Scopus 31; pub year: IF 1.943, Q3; CiteScore Q2; SJR 0.883, Q2]
- 37) Porro C.A., Lui F., Facchin P., Maieron M., Baraldi P. (2004) Percept-related activity in the human somatosensory system: functional magnetic resonance imaging studies, *Magn. Reson. Imaging*, 22:1539-48. 10.1016/j.mri.2004.10.003 [n. cit.: WOS 53; Scopus 55; pub year: IF 1.469, Q3; CiteScore Q1; SJR 0.627, Q2]
- 38) Benuzzi F., Meletti S., Zamboni G., Calandra-Buonaura G., Serafini M., Lui F., Baraldi P., Rubboli G., Tassinari C.A., Nichelli P. (2004) Impaired fear processing in right mesial temporal sclerosis: a fMRI study, *Brain Res. Bull.*, 63:269-281. 10.1016/j.brainresbull.2004.03.005 [n. cit.: WOS 70; Scopus 68; pub year: IF 2.429, Q2; CiteScore Q1; SJR 1.383, Q2]
- 39) Porro C.A., Cavazzuti M., Giuliani D., Vellani V., Lui F., Baraldi P. (2004) Effects of ketamine anesthesia on central nociceptive processing in the rat: a 2-deoxyglucose study, *Neuroscience* 125:485-494. 10.1016/j.neuroscience.2004.01.039 [n. cit.: WOS 9; Scopus 11; pub year: IF 3.456, Q2 (25.51%); CiteScore Q1; SJR 2.007, Q1]
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- 1) Ricci F., Zanelli V., Casadio C., Carpentiero O., Bauleo A., Duzzi D., Pesciarelli F., Benuzzi F, Lotto L., Rumiati R., Cacciari C., Porro C.A., Lui F. When Empathy Changes the Game: fMRI Evidence from the Ultimatum Paradigm. Organization for Human Brain Mapping Meeting 2026, Bordeaux, France
- 2) V. Zanelli, C. Casadio, F. Ricci, M. Cardellini, E. Fenoglio, D. Enrico, M. Bacigalupo, F. Contò, G. Ellena, R. Billardello, S.M. Li Gioi, L. Zollo, F. Cordella, A. Casile, S. Meletti, V. Rispoli, M. Semprini, L. Battelli, F. Lui, F. Benuzzi. An integrated protocol to strengthen motor learning and body representation networks. Organization for Human Brain Mapping Meeting 2026, Bordeaux, France
- 3) Ricci F., Casadio C., Zanelli V., Carpentiero O., Caselli 1., Nandi A., Masino F., Lui F., Benuzzi F. Experience-dependent modulation of neural mechanisms underlying olfactory identification: preliminary evidence. Organization for Human Brain Mapping Meeting 2026, Bordeaux, France
- 4) C. Casadio, V. Zanelli, F. Ricci, O. Carpentiero, M. Cardellini, M.L. Gibellini, G. Titone, G. Vandelli, M. Serafini, F. Gherardini, S. Rubichi, C. Iani, E. Gherri, F. Benuzzi, F. Lui. How Spatial Attention modulates Pain and Touch in the brain: a preliminary fMRI investigation. Organization for Human Brain Mapping Meeting 2026, Bordeaux, France
- 5) E. Gherri, G. Titone, G. Garofalo, C. Casadio, F. Benuzzi, S. Rubichi, C. Iani, F. Lui, Attentional selection of location and modality in touch and pain: An ERP investigation of crossmodal and intermodal effects. International Multisensory Research Forum 2026, Genova, Italy
- 6) E. Fenoglio, V. Zanelli, V. Rispoli, D. Enrico, F. Contò, C. Casadio, G. Ellena, A. Casile, S. M. Li Gioi, R. Billardello, M. Bacigalupo, F. Cordella, L. Zollo, F. Lui, F. Benuzzi, L. Battelli, M. Semprini. High-Frequency Transcranial Random Noise Stimulation Enhances Motor Training and Neural Adaptation for Virtual Prosthesis Control. Society for Neurosciences Meeting 2025, San Diego USA
- 7) E. Gherri, G. Titone, G. Garofalo, A. Kassapidis, F. Benuzzi, S. Rubichi, C. Iani, F. Lui, The orienting of spatial attention in touch and pain: Evidence for modality-specific modulations of the cue-locked lateralized ERP components. International Conference on Cognitive Neuroscience 2025, Porto, Portugal.

- 8) F. Ricci, C. Casadio, V. Zanelli, K. Marchesini, F. Bolelli, C. Grana, M. Chiuchiolo, G. Sprugnoli, N. Torz, F. Lui, F. Benuzzi, Segmentazione automatica delle lesioni tumorali encefaliche: sviluppo e validazione di due algoritmi di deep learning. SINP 2025, Urbino, Italy.
- 9) V. Zanelli, C. Bruni, C. Casadio, F. Ricci, O. Carpentiero, R. Cubelli, E. Bardi, M.G. Corni, S. Rubichi, S. Meletti, A. Ciaramidaro, F. Lui, M.A. Molinari, F. Benuzzi, Valutazione della Cognizione Sociale nell'Epilessia e nel Mild Cognitive Impairment. SINP 2025, Urbino, Italy.
- 10) Zanelli V., Sola C., Casadio C., Ricci F., Carpentiero O., Nichelli P.F., Tondelli M., Molinari M.A., Lui F., Benuzzi F. Basic and Social Emotional Processing in Alzheimer's Disease and Frontotemporal Dementia. 43° European Workshop on Cognitive Neuropsychology EWCN Jan 26-31 2025, Bressanone, Italy.
- 11) Casadio C., Ballotta D., Zanelli V., Ricci F., Corni M.G., Bardi E., Lui F., Molinari M.A., Benuzzi F. Sniffing Out Alzheimer's: How Smell and Neural Changes Predict Disease Progression. 43° European Workshop on Cognitive Neuropsychology EWCN Jan 26-31 2025, Bressanone, Italy.
- 12) Ballotta, D., Maramotti, R., Borelli, E., Lui, F., Pagnoni, G. Voluntary modulation of mental effort affects the attentional retraction induced by angry faces, OHBM Annual Meeting, Seoul, Korea, June 23-27, 2024.
- 13) F. Simonelli, G. Handjaras, F. Benuzzi, G. Bernardi, A. Leo, D. Duzzi, L. Cecchetti, P. F. Nichelli, C. A. Porro, P. Pietrini, F. Lui and E. Ricciardi Sensitivity and Specificity of the Action Observation Network to Kinematic, Target Object and Gesture Meaning, SIPP, Siena, Italy, November 9-11, 2023,
- 14) V. Zanelli, C. Casadio, E. Bardi, M. G. Corni, S. Meletti, A. Ciaramidaro, F. Lui, M. A. Molinari, F. Benuzzi Assessing social cognition abilities in temporal and frontal epilepsy FESN 2023, Salonicco, Greece
- 15) V. Zanelli, C. Casadio, M. Ambrosecchia, M. Ardizzi, V. Gallese, C. A. Porro, F. Lui, F. Benuzzi Cingulate cortex sensitivity to subtle cues of affective deception, FESN 2023, Salonicco, Greece
- 16) Claudia Casadio, Vanessa Zanelli, Ivan Patané, Michela Candini, Fausta Lui, Francesca Frassinetti, Francesca Benuzzi, Temporal Distance modulates brain activity during Mental Time Travel, OHBM Annual Meeting 2023, Montreal, Canada
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- 18) Casadio, C; Patané, I; Candini, M; Lui, F; Zanelli, V; Benuzzi, F, Frassinetti, F. Il cervello che viaggia nel tempo: effetti della distanza temporale degli eventi. SINP 2023 Bologna, Italy
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- 22) Borelli, E.1, Ballotta, D.2, Lui, F.2, Pagnoni, G. Neural correlates of emotional valence for innate and culturally-acquired stimuli OHBM Annual Meeting 2022, Glasgow, Scotland
- 23) C. Casadio, D. Ballotta, F. Lui, M. Candini, F. Frassinetti, F. Benuzzi Anterior Insula and the Superior Temporal Gyrus are critical for mentally travel in time. OHBM Annual Meeting 2021, Virtual.
- 24) Francesca Simonelli, Giacomo Handjaras, Francesca Benuzzi, Giulio Bernardi, Andrea Leo, Davide Duzzi, Luca Cecchetti, Paolo F. Nichelli, Carlo A. Porro, Pietro Pietrini, Fausta Lui and Emiliano Ricciardi. Voxel sensitivity to kinematic and object-related features during action observation. OHBM Annual Meeting 2020, Virtual.
- 25) Eleonora Borelli, Fausta Lui,, Francesca Benuzzi, Cristina Cacciari and Carlo A. Porro. Words hurt: common and distinct neural substrates between physical and semantic pain. 25th Annual Meeting of the Organization for Human Brain Mapping, Rome (Italy) 2019
- 26) Francesca Benuzzi, Daniela Ballotta, Carlo A. Porro, Paolo F. Nichelli and Fausta Lui “When you’re smiling”: how facial expressions affect visual recognition of emotions 25th Annual Meeting of the Organization for Human Brain Mapping, Rome (Italy) 2019
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- 29) Borelli, E., Benuzzi, F. Lui, F., Porro, C.A., Cacciari C. Behavioural and neural correlates of the semantic of physical and social pain. First Joint Congress of the SEPEX, SEPNECA and AIP Experimental, Madrid, 3-6 July 2018.
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