



Giovanna Traina

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● EDUCATION AND TRAINING

12/01/2022 – CURRENT Perugia, Italy

ASSOCIATE PROFESSOR SSD BIO/09- PHYSIOLOGY (FROM 02.05.2024 SSD BIOS-06/A - PHYSIOLOGY)
University of Perugia

01/11/2003 – 11/01/2022 Perugia, Italy

CONFIRMED UNIVERSITY RESEARCHER FOR SSD BIO/09-PHYSIOLOGY, FACULTY OF PHARMACY
University of Perugia

01/10/1994 – 31/10/2003 Pisa, Italy

CONFIRMED UNIVERSITY RESEARCHER FOR SSD BIO/09-PHYSIOLOGY, FACULTY OF SCIENCES MM.FF.NN., UNIVERSITY OF PISA

01/08/2000 – 30/08/2000 Heidelberg, Germany

RESEARCH FELLOW AT THE MAX-PLANCK INSTITUT FÜR MEDIZINISCHE FORSCHUNG, ABTEILUNG ZELLPHYSIOLOGIE IN HEIDELBERG (GERMANY) IN THE MOLECULAR BIOLOGY RESEARCH UNIT PROF. BERT SAKMANN (NOBEL PRIZE 1991), COLLABORATING WITH DR. VEIT WITZEMANN.

01/02/1999 – 01/02/2000 Heidelberg, Germany

RESEARCH FELLOW AT THE MAX-PLANCK INSTITUT FÜR MEDIZINISCHE FORSCHUNG, ABTEILUNG ZELLPHYSIOLOGIE IN HEIDELBERG (GERMANY) IN THE MOLECULAR BIOLOGY RESEARCH UNIT PROF. BERT SAKMANN (NOBEL PRIZE 1991), COLLABORATING WITH DR. VEIT WITZEMANN.

01/04/1996 – 01/07/1996 Paris, France

RESEARCH FELLOW AT THE INSERM LABORATORIES, CENTRE PAUL BROCA IN PARIS, FOR A COLLABORATION WITH THE RESEARCH GROUP COORDINATED BY DR. JACQUES EPELBAUM. Centre Paul Broca, Paris

03/1996 Siena, Italy

SPECIALIZATION DIPLOMA IN COSMETIC SCIENCE AND TECHNOLOGY, CUM LAUDE, AT THE UNIVERSITY OF SIENA, DISCUSSING THE EXPERIMENTAL THESIS: "SPECTROFLUORIMETRIC ANALYSIS OF SUBSTANCES FOR COSMETIC USE IN CELL CULTURE" (SUPERVISOR PROF. CECILIA ANSEMI) University of Siena

08/09/1992 – 30/09/1994 Viterbo, Italy

UNIVERSITARY RESEARCHER FOR E04 GROUP "GENERAL PHYSIOLOGY AND MOLECULAR BIOLOGY", FACULTY OF SCIENCES MM.FF.NN. OF THE UNIVERSITY OF TUSCIA IN VITERBO University of Tuscia

04/1992 Firenze, Italy

PHD IN PHYSIOLOGY, DISCUSSING THE EXPERIMENTAL THESIS ENTITLED: "CALCIUM CURRENTS IN FROG SKELETAL MUSCLE: NEW AQUISITION ON CHARGE MOVEMENTS, ACTIVATION AND INACTIVATION" (SUPERVISOR PROF. FABIO FRANCONI) University of Firenze

1987 Pisa, Italy

QUALIFYING DIPLOMA TO PRACTICE THE PROFESSION OF BIOLOGIST University of Pisa

● PUBLICATIONS

Traina, G. (2024) On probiotic integration in the management of inflammation and in maintaining the integrity of the intestinal epithelial barrier. *J. Biol. Res.* DOI: 10.4081/jbr.2024.12362.

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Romeo M., Cavaliere G., Traina G. (2024) Bulimia Nervosa and Depression, from the Brain to the Gut Microbiota and Back. *Frontiers in Bioscience (Landmark)*, 29(8): 277 <https://doi.org/10.31083/j.fbl2908277>

Tonlorenzi D., Conti M., Traina G. Oral splint therapy in a female child who improved both posture and writing: a case report. *Arch.Ital. Biol.* (accepted).

Traina, G. (2024) Mast Cells in Human Health and Diseases 2.0. *Int. J. Mol. Sci.* 25, 6443. <https://doi.org/10.3390/ijms25126443>.

Traina, G., Tuszynski, J.A. (2023) The neurotransmission basis of post-traumatic stress disorders by the fear conditioning paradigm. *Int. J. Mol. Sci.* 24, 16327. <https://doi.org/10.3390/ijms242216327>

Cavaliere G., Traina G. (2023) Neuroinflammation in the Brain and Role of Intestinal Microbiota: An Overview of the Players. *J. Integr. Neurosci.* 22(6): 148. <https://doi.org/10.31083/j.jin2206148>.

Conte, C., Baldi, E., Bucherelli, C., di Vito, R., Petri, D., Traina, G. (2023) Modulation of synapse-related gene expression in the cerebellum and prefrontal cortex of rats subjected to the contextual fear conditioning paradigm. *Neurobiology of Learning & Memory*, 203, 107776

Traina, G. (2023) Mast Cells in Human Health and Diseases. *Int. J. Mol. Sci.* 24, 6668. <https://doi.org/10.3390/ijms24076668>

di Vito, R., Di Mezza, A., Conte, C., Traina, G. (2023) The crosstalk between intestinal epithelial cells and mast cells is modulated by the probiotic supplementation in co-culture models. *Int. J. Mol. Sci.* 24, 4157. <https://doi.org/10.3390/ijms24044157>.

Cimmino, F., Catapano, A., Villano, I., Di Maio, G., Petrella, L., Traina, G., Pizzella, A., Tudisco, R., Cavaliere G. (2023) Human, cow and donkey milk comparison: focus on metabolic effects. *Journal of Dairy Science* 106:3072–3085 <https://doi.org/10.3168/jds.2022-22465>

Traina, G. (2022) The Connection between Gut and Lung Microbiota, Mast Cells, Platelets and SARS-CoV-2 in the Elderly Patient. *Int. J. Mol. Sci.*, 23, 14898. <https://doi.org/10.3390/ijms232314898>.

di Vito, R.; Conte, C.; Traina, G. (2022) A Multi-Strain Probiotic Formulation Improves Intestinal Barrier Function by the Modulation of Tight and Adherent Junction Proteins. *Cells*, 11, 2617. doi.org/10.3390/cells11162617.

Traina, G. (2022) Probiotics and Microbiota-Derived Molecules for Inflammation, Neuroinflammation and Mood Disorders. *Applied Sciences*, 12, 8727. <https://doi.org/10.3390/app12178727>.

di Vito, R.; Levorato, S.; Fatigoni, C.; Acito, M.; Sancineto, L.; Traina, G.; Villarini, M.; Santi, C.; Moretti M. (2022) In vitro toxicological assessment of PhSeZnCl in human liver cells. *Toxicological Research*, doi:10.1007/s43188-022-00148-y.

Grispoldi, L., Chalias, A., Barzi, E., Pecorari, L., Tassinari, M., Saraiva, C., García-Díez, J., Karama, M., El-Ashram, S., Traina, G. and Cenci-Goga, B. T. (2022) Effect of packaging and storage conditions on some quality traits of bovine meat. *Italian Journal of Food Safety*, 11(2), 10038. doi:10.4081/ijfs.2022.10038

Traina, G.; Tuszynski, J.A.; Cocchi, M. (2022) Molecular Insights in Psychiatry. *Int. J. Mol. Sci.* 2022, 23, 4878. doi.org/10.3390/ijms23094878.

Cocchi, M.; Mondo, E.; Romeo, M.; Traina, G. (2022) The Inflammatory Conspiracy in Multiple Sclerosis. A Crossroads of Clues and Insights through Mast Cells, Platelets, Inflammation, Gut Microbiota, Mood Disorders and Stem Cells. *Int. J. Mol. Sci.* 23, 3253. doi.org/10.3390/ijms23063253.

Tonlorenzi D., Conti M., Traina G. (2021) The influence of mandibular stretching on athletes subjected to high intensity workout. *ARCHIVES ITALIENNES DE BIOLOGIE*, 159: 178-186

Traina G. (2021) Caulerpenyne affects bradykinin-induced intracellular calcium kinetics in LoVo cells. *APPLIED SCIENCES* 11, 2697. doi.org/10.3390/app11062697

Conti M., Tonlorenzi D., Brunelli M., Traina G. (2021) Learning effect and repeatability of stabilometric measurements: "standard" vs. usual foot placement. *ARCHIVES ITALIENNES DE BIOLOGIE* 159: 95-103. DOI 10.12871/00039829201441.

Traina G. (2021) The role of mast cells in the gut and brain. *JOURNAL OF INTEGRATIVE NEUROSCIENCE* 20(1), 185-196. DOI:10.31083/j.jin.2021.01.313

Traina G. (2020) Learning processes in elementary nervous systems. *JOURNAL OF INTEGRATIVE NEUROSCIENCE* 19(4), 673-678. DOI:10.31083/j.jin.2020.04.318.

Cocchi M., Traina G. (2020) Tryptophan and membrane mobility as conditioners and brokers of gut-brain axis in depression. *APPLIED SCIENCES*, 10(14), 4933. doi:10.3390/app10144933.

Traina, G., Cocchi, M. (2020) Mast Cells, Astrocytes, Arachidonic Acid: Do They Play a Role in Depression? *APPLIED SCIENCES*, 10, 3455. doi:10.3390/app10103455

Grispoldi L., Giglietti R., Traina G., Cenci-Goga B. (2020) How to Assess in vitro Probiotic Viability and the Correct Use of Neutralizing Agents. *FRONTIERS IN MICROBIOLOGY*. 11:204. doi: 10.3389/fmicb.2020.00204.

Brunelli M., Conti M., Tonlorenzi D., Traina G. (2020). Changes of sensory and pain thresholds in healthy subjects after mandibular at maximum mouth opening: implications for temporomandibular disorders therapy. *ARCHIVES ITALIENNES DE BIOLOGIE*, 158, 17-23.

Conte, C., Sichetti, M., Traina, G. (2020) Gut-Brain Axis: Focus on Neurodegeneration and Mast Cells. *APPLIED SCIENCES*, 10, 1828. doi:10.3390/app10051828.

Menchetti L, Curone G, Filipescu IE, Barbato O, Leonardi L, Guelfi G, Traina G, Casagrande-Proietti P, Riva F, Casano AB, Piro F, Vigo D, Quattrone A, Brecchia G. (2020) The Prophylactic Use of Bovine Colostrum in a Murine Model of TNBS-Induced Colitis. *ANIMALS*, 10(3):492. doi: 10.3390/ani10030492

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Tonlorenzi D., Brunelli M., Conti M., Covani U., Traina G. (2019). An observational study of the effects of using an high oral splint on pain control. *ARCHIVES ITALIENNES DE BIOLOGIE*, 157, 66-75. DOI 10.12871/00039829201923.

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Guelfi R., Conti M., Zanfrini S., Brunelli M., Traina G. (2019) Postural disorders produced by school furniture on a population of a junior high school. ARCHIVES ITALIENNES DE BIOLOGIE, 157, 14-22. DOI: 10.12871/00039829201912

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Taticchi A, Urbani S, Albi E, Servili M, Codini M, Traina G, Balloni S, Patria FF, Perioli L, Beccari T, Conte C. (2019) In Vitro Anti-Inflammatory Effects of Phenolic Compounds from Moraiolo Virgin Olive Oil (MVOO) in Brain Cells via Regulating the TLR4/NLRP3 Axis. MOLECULES, 10;24(24):4523. doi: 10.3390/molecules24244523.

Federighi G., Traina G., Bernardi R., Baldi E., Bucherelli C., Scuri R. (2018) Contextual fear conditioning modulates the gene expression over time. ARCHIVES ITALIENNES DE BIOLOGIE, 156(1-2), 40-47.

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Cataldi S, Arcuri C, Hunot S, Mecca C, Codini M, Laurenti ME, Ferri I, Loreti E, Garcia-Gil M, Traina G, Conte C, Ambesi Impiombato FS, Beccari T, Curcio F, Albi E. (2018) Effect of Vitamin D in HN9.10e Embryonic Hippocampal Cells and in Hippocampus from MPTP-Induced Parkinson's Disease Mouse Model. FRONTIERS IN CELLULAR NEUROSCIENCE, 12, Article 31, doi.org/10.3389/fncel.2018.00031.

Filipescu IE, Leonardi L, Menchetti L, Guelfi G, Traina G, Casagrande-Proietti P, Piro F., Quattrone A., Barbato O., Brecchia G. (2018) Preventive effects of bovine colostrum supplementation in TNBS-induced colitis in mice. PLoS ONE 13(8): e0202929.

De Marco S., Sichetti M., Meradyan D., Piccioni M., Traina G., Pagiotti R., Pietrella D. (2018) Probiotic Cell-Free Supernatants Exhibited Anti-Inflammatory and Antioxidant Activity on Human Gut Epithelial Cells and Macrophages Stimulated with LPS. Evidence-Based Complementary and Alternative Medicine, 2018,1756308, doi.org/10.1155/2018/1756308.

Albi E, Cataldi S, Ferri I, Sidoni A, Traina G, Fettucciari K, Ambesi-Impiombato FS, Lazzarini A, Curcio F, Ceccarini MR, Beccari T, Codini M. (2018) VDR independent induction of acid-sphingomyelinase by 1,23(OH)₂ D3 in gastric cancer cells: Impact on apoptosis and cell morphology. BIOCHIMIE 146; 35-42.

Menchetti L., Barbato O., Filipescu I.E., Traina G., Leonardi L., Polisca A., Troisi A., Guelfi G., Federica P., Brecchia G. (2018) Effects of local lipopolysaccharide administration on the expression of Toll-like receptor 4 and pro-inflammatory cytokines in uterus and oviduct of rabbit does. THERIOGENOLOGY 107; 162-174.

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Traina G., Scuri S. (2017) ACETYL-L-CARNITINE AFFECTS THE ELECTRICAL ACTIVITY OF MECHANOSENSORY NEURONS IN *HIRUDO MEDICINALIS* GANGLIA. *EMBJ* 12(08); 36-40.

Barbato O., Guelfi G., V.L. Barile, L. Menchetti, C. Tortiello, C. Canali, G. Brecchia, G. Traina, J.F. Beckers, N. Melo de Sousa (2017) Using real-time PCR to identify pregnancy-associated glycoprotein 2 (PAG-2) in water buffalo (*Bubalus bubalis*) blood in early pregnancy. *THERIOGENOLOGY* 89; 106-113.

Traina G., Casagrande Proietti P., Menchetti L., Leonardi L., Tomasello G., Barbato O., Piro F., Brecchia G. (2016) COLON MICROBIAL COMPOSITION IS CORRELATED WITH THE SEVERITY OF COLITIS INDUCED BY 2,4,6-TRINITROBENZENESULFONIC ACID IN MICE. *EMBJ*, 11 (23):165-175.

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Traina (2016) The neurobiology of acetyl-L-carnitine. *FRONTIERS IN BIOSCIENCE (Landmark Ed.)* 21, 1314-1329.

Menchetti L., Traina G., Tomasello G., Casagrande-Proietti P., Leonardi L., Barbato O., Brecchia G. (2016) Potential benefits of colostrum in gastrointestinal diseases. *FRONTIERS IN BIOSCIENCE*, 8, 344-365.

Tomasello G., Abruzzo A., Sinagra E., Damian P. Damiani F., Traina G., Campanella C., Rappa F., Marino Gammazza A, Noto M., Palumbo VD., Damiano G., Lo Monte AI. (2015) Nutrition in IBD patient's. What are the prospects? *PROGRESS IN NUTRITION*, 17(2), 79-86.

Tomasello G, Sinagra E, Raimondo D, Palumbo VD, Puleio R, Cottone M, Damiani P, Traina G, Abruzzo A, Damiani F, Buscemi S, Noto M, Lo Monte AI. Validation of a modified model of TNBS-induced colitis in rats. How to induce a chemical colitis in rats, (2015) *ACTA BIOMEDICA*, 86(1); 92-96.

Traina, G., Scuri R. (2015) Transcription and protein synthesis inhibitors influence long-term effects of acetyl-l-carnitine on non-associative learning in the leech. *NEUROCHEMISTRY INTERNATIONAL*, 80, 72-78.

Tomasello, G., M-N. Zeenny, M. Giammanco, D. Di Majo, G. Traina, E. Sinagra, P. Damiani, R. Jurjus Zein, A. Jurjus, A. Leone (2015) INTESTINAL MICROBIOTA MUTUALISM AND GASTROINTESTINAL DISEASES. *EMBJ*, 10(1), 65-75.

Bellavia, M., F. Rappa, M. Lo Bello, G. Brecchia, G....A. Jurjus, P. Schembri-Wismayerl, M. Cocchi, G. Zummo, F. Farina, A. Gerbino, F. Cappello, G. Traina (2014). *Lactobacillus casei* and *bifidobacterium lactis* supplementation reduces tissue damage of intestinal mucosa and liver after 2,4,6-trinitrobenzenesulfonic acid treatment in mice. *JOURNAL OF BIOLOGICAL REGULATORS & HOMEOSTATIC AGENTS*, vol.28 (3), p.251-261.

Persichetti E., De Michele A., Codini M., Traina G. (2014). Antioxidative Capacity of *Lactobacillus Fermentum* LF31 Evaluated In Vitro by Oxygen Radical Absorbance Capacity Assay. *NUTRITION*, vol. 30, 936-938.

Federighi, G., Macchi, M., Bernardi, R., Scuri, R., Brunelli, M., Durante, M., Traina G. (2013). Differentially expressed genes in *Hirudo medicinalis* ganglia after acetyl-l-carnitine treatment. *PLOS ONE*, vol. 8, ISSN: 1932-6203, doi: 10.1371/journal.pone.0053605.

Paolo Blasi, Aurélie Schoubben, Giovanna Traina, Giuseppe Manfroni, Lanfranco Barberini, Paolo Francesco Alberti, Carlo Cirotto, Maurizio Ricci (2013). Lipid nanoparticles for brain targeting III. Long-term stability and in vivo toxicity. *INTERNATIONAL JOURNAL OF PHARMACEUTICS*, vol. 454, p. 316-323, ISSN: 0378-5173

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Giuseppe Federighi, Giovanna Traina, Monica Macchi, Cristina Ciampini, Rodolfo Bernardi, Elisabetta Baldi, Corrado Bucherelli, Marcello Brunelli, Rossana Scuri (2013). Modulation of gene expression in contextual fear conditioning in the rat. *PLOS ONE*, ISSN: 1932-6203, doi: 10.1371/journal.pone.0080037

Giovanna Traina, Paolo Bigini, Giuseppe Federighi, Leopoldo Sitia, Gabriela Paroni, Fabio Fiordaliso, Monica Salio, Caterina Bendotti, Marcello Brunelli (2012). Lipofuscin accumulation and gene expression in different tissue of mnd mice. *MOLECULAR NEUROBIOLOGY*, vol. 45 / 2012, p. 247-257, ISSN: 0893-7648.

Maria Luisa Zaccardi, Riccardo Mozzachiodi, Giovanna Traina, Marcello Brunelli, Rossana Scuri (2012). Molecular mechanisms of short-term habituation in the leech *Hirudo medicinalis*. *BEHAVIOURAL BRAIN RESEARCH*, vol. 229 / 2012, p. 235-243, ISSN: 0166-4328.

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Ristori C., Cataldo E., Zaccardi M.L., Traina G., Calvani M., Lombardo P., Scuri R., Brunelli M. (2006). Acetyl-L-carnitine affects nonassociative learning processes in the leech *Hirudo medicinalis*. *NEUROSCIENCE*, vol.142, p. 931-939.

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Traina G., Bagnoli P. (1999). Mechanisms mediating somatostatin-induced reduction of cytosolic free calcium in PC12 cells. *NEUROSCIENCE LETTERS*, vol. 265, p. 123-126.

G. TRAINA, PETRUCCI C, GARGINI C, AND BAGNOLI P (1998). Somatostatin enhances neurite outgrowth in PC12 cells. *DEVELOPMENTAL BRAIN RESEARCH*, vol. 111, p. 223-230.

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Giovanna Traina, Gigliola Fontanesi, Paola Bagnoli (1994). Maturation of somatostatin immunoreactivity in the pigeon retina: morphological characterization and quantitative analysis. *VISUAL NEUROSCIENCE*, vol. 11 / 1994, p. 165-177.

Gigliola Fontanesi, Giovanna Traina, Paola Bagnoli (1993). Somatostatin - like immunoreactivity in the pigeon visual system: developmental expression and effects of retina removal. *VISUAL NEUROSCIENCE*, vol. 10, p. 271-285.

Fabio Francini, Lucia Pizza, Giovanna Traina (1992). Inactivation of the slow calcium current in twitch skeletal muscle fibres of the frog. *THE JOURNAL OF PHYSIOLOGY*, vol. 448, p. 633-653.

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● **CONFERENCES AND SEMINARS**

11/11/2022 – 12/11/2022 Roma

Invited Speaker at the AGGEI 2022 Campus Congress (Association of Young Italian Gastroenterologists and Endoscopists) with the presentation: Selective probiotic integration for the modulation of intestinal permeability.

04/10/2021 Online

Invited Speaker at the "Academic Mondays" Conference of the Georgofili Academy, Central-East Section, with the lecture: Intestinal microbiota, nutrients and inflammation.

17/12/2020 Online

Invited Speaker at the International Conference, The 9th QPP Meeting Quantum Paradigms of Psychopathology, with the lecture: Mast cells, astrocytes, arachidonic acid: do they play a role in depression?

13/09/2019 – 15/09/2019 Torino

Invited Speaker at the International Conference, The 8th QPP Meeting Quantum Paradigms of Psychopathology, with the lecture: Anxiety, stress and microbiota: the brain seen by a physiologist.

13/10/2018

Invited Speaker at the International Conference, The 7th QPP Meeting Quantum Paradigms of Psychopathology, Microbiota & brain: the thinking organs.

27/08/2018 – 31/08/2018

Invited Speaker at the Politecnico of Torino for the Summer School on Neuroscience: Brain and gut from molecules to mood, with the lecture: Elementary animal model of learning.

27/08/2018 – 31/08/2018

Invited Speaker at the Politecnico of Torino for the Summer School on Neuroscience: Brain and gut from molecules to mood, with the lecture: Mast cells in gut and brain.

16/06/2017 – 17/06/2017

Invited Speaker at the International Conference "Biological consciousness-A journey from bacteria to animals and humans", The 6th QPP Meeting Quantum Paradigms of Psychopathology, with the lecture: Mast cells and brain.

19/05/2017 Verona

Invited Speaker at the Course in Posturometric techniques, organized by the University of Verona, with the lecture: Neurophysiology of posture.

01/10/2016 Como

Invited Speaker at the International Conference "Looking from the quantum brain.. & for the gut-brain axis", The 5th QPP Meeting Quantum Paradigms of Psychopathology, with the lecture: Gut epithelial barrier: the experimental model.

30/09/2016 Como

Invited Speaker at the Conference-Course "Oxysterols, brain, heart and mood disorders" with the lecture: The microbiota and the experimental model of inflammation.

13/05/2016 – 14/05/2016 Napoli

Invited Speaker at the Second University of Naples in the course: Occlusion and posture: posturometric and stabilometric techniques" School of Specialization in Orthodontics , with the lecture entitled: Neurophysiology of the postural tonic system.

08/05/2015 – 09/05/2015 Napoli

Invited Speaker at the Second University of Naples in the course: Occlusion and posture: posturometric and stabilometric techniques" School of Specialization in Orthodontics , with the lecture entitled: Neurophysiology of the postural tonic system.

23/09/2014 Perugia

Invited Speaker at the Conference: Trigemino-vagal reflex and cardiac arrest, with the lecture "Neurophysiology of the trigemino-vagal reflex".

08/09/2008 Bologna

Invited Speaker at the Academy of Sciences of Bologna at the meeting "Molecular aspects in neurodegenerative diseases" with the lecture entitled: New therapies for neurodegenerative diseases.
