
BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Emiliano Ricciardi, MD, PhD	Associate Professor in Psychobiology and Psychophysiology, IMT School for Advanced Studies Lucca, Italy

Date of birth: April 18th, 1975

Place of Birth: Pisa, Italy

Citizenship: Italian

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<https://momilab.wordpress.com/people/>

Highlights

- Over 60 papers in peer-reviewed journals and book chapters, and >150 abstracts at scientific meetings (Citations: 1,883; H-index: 22 from Google Scholar)
- The research activity in brain imaging and cognitive neuroscience, mainly in the field of supramodal perception, is highly recognized at national and international levels
- The youngest Chair of an Annual Meeting of the Organization for Human Brain Mapping (2010) and the youngest Scientific Secretary of the Italian Society of Psychophysiology
- Received several fellow travel and young investigator awards. Several invited lectures and oral presentations at international meetings and research/academic Institutions.

Professional Experience

2016-now	Associate Professor in Psychobiology and Psychophysiology, IMT School for Advanced Studies Lucca, Italy
2010-2016	Assistant Professor (with tenure) of Clinical Biochemistry and Molecular Biology (SSD BIO/12), University of Pisa, Pisa, Italy (D.R. n.0013291, Nov 11 th , 2010) Senior Staff Fellow, O.U. Clinical Pathology, University Hospital Pisa, Italy
2007-2008	Guest Researcher at the Cognitive Brain Mapping Lab, RIKEN - Brain Science Institute, Wako-shi, Saitama, Japan
2006-2009	Fixed-term Assistant Professor of Clinical Biochemistry and Molecular Biology (SSD BIO/12) for the program "In vivo and in vitro biochemical-clinical parameters of brain metabolism in physiological and pathological conditions" (D.R. n.01/14566), University of Pisa, Pisa, Italy
2004-2006	Post-Doc Position at the Laboratory of Clinical Biochemistry and Molecular Biology and the Centro Interdipartimentale di Ricerca "E. Piaggio" at the University of Pisa, Italy
Since 2002	Intern, MRI Lab, Institute of Clinical Physiology, National Research Council, Pisa (Italy)
2001-2002	Special Volunteer in the Section on Functional Brain Imaging, Laboratory of Brain and Cognition (National Institute of Mental Health, NIH, Bethesda, MD)
2000-2012	Intern, PET Center, Institute of Clinical Physiology, National Research Council, Pisa (Italy)

Education

2001-2004	Ph.D. in Neurosciences, Scuola Superiore di Studi Universitari e di Perfezionamento "Sant'Anna", Pisa (Italy), "In vivo and in vitro study of the neurometabolic correlates of cholinergic modulation on memory and attention during physiological and pathological aging"
2001	Italian State Medical Board License
1994-2000	Medical Student - Faculty of Medicine and Surgery, University of Pisa, Italy. Graduation in Medicine 110/110 "magna cum laude" and a special mention for his dissertation thesis "Effects of normal and pathological aging on the parameters of brain metabolism and blood flow in humans. PET study in healthy subjects and in patients with Alzheimer's disease in different condition of sensorial stimulation"
Since 1998	Collaborations with the Laboratory of Neurosciences, NIA (Director, S.I. Rapoport) and with the Laboratory of Brain and Cognition, NIMH (Director, L. Ungerleider; Section Head, J.V. Haxby)
1989-1994	Scientific Secondary School in Pisa, Italy. Degree 60/60

Post-graduate Clinical Training and Experience

2006-oggi	Senior Staff Fellow, O.U. Clinical Pathology, University Hospital Pisa, Italy. Clinical responsibilities include laboratory test development, report validation and monitoring of protocols for laboratory information system.
2002-2012	During the internship at the PET Center, Institute of Clinical Physiology, National Research Council, clinical responsibilities included PET o TC/PET brain scans with ¹⁸ Fluoride-2-deoxy-D-Glucose in patients with neurological and psychiatric disorders.

Institutional responsibilities

2015-now	Designated Responsible for the Departmental Scientific Production (VQR 2011-2014) and Teaching Evaluation, University of Pisa, Italy
2014-2016	Department Member and Department Representative of Assistant Professors, Dept. Surgical, Medical, Molecular Pathology and Critical Care, University of Pisa, Italy
2012-now	Council Member, PhD Course in 'Biochemistry and Molecular Biology', Regione Toscana, Italy
2012-now	Council Member, PhD Course in 'Molecular, metabolic and functional exploration of the nervous system and sensory organs', University of Pisa, Italy
2010-2014	Faculty member, University of Pisa, Pisa, Italy

Honors and Awards

2014-2019	Italian national scientific habilitation for Associate Professorship in General Psychology, Psychobiology and Psychometry (11/E1) - ASN 2012
2011	Young Investigator Award, University of Pisa, Italy
2011	Fellow Travel Award (co-author), 17 th OHBM Annual Meeting, Quebec City, Canada
2009	Fellow Travel Award (co-author), 15 th OHBM Annual Meeting, San Francisco, USA
2008	Fellow Travel Award (co-author), 14 th OHBM Annual Meeting, Melbourne, Australia
2006	Young Investigator Award 2006, International Society for Brain Electromagnetic Topography
2003	Fellow Travel Award, 9 th OHBM Annual Meeting, New York, NY, USA
2000	Fellow Travel Award, 5 th OHBM Annual Meeting, San Antonio, Texas, USA

Membership of scientific societies

2016-now	Treasurer, International Organization of Psychophysiology
2015-2017	Scientific and Administrative Secretary, Italian Society of Psychophysiology (Italy)
2013-2016	Member of the Board of Directors, International Organization of Psychophysiology
2012-2015	Council Member, Italian Society of Psychophysiology (Italy)
2011-2013	Member, International Organization of Psychophysiology (USA)
2008-2014	Member, International Society of Magnetic Resonance in Medicine (USA)
1999-now	Member, Organization for Human Brain Mapping (USA)
1999-now	Member, Society for Neurosciences (USA)

Organization of scientific meetings

2019	Co-Chair, 25 th Annual Meeting of the Human Brain Mapping Organization, Rome (Italy)
2016	Organizing Committee Member, "The Fresco Conference on Synaptic Plasticity: from bench to bedside", Sept 12-14, Lucca (Italy)

2015	Chair, 22 nd Annual Meeting of Italian Society of Psychophysiology, November 19-21, Lucca (Italy)
2013	Co-Chair, The Blind Brain Workshop, Pisa (Italy), October 16 th -18 th , 2013 http://theblindworkshop.com/
2012	Scientific Program Responsible and Member of the LOC, 16 th World Congress of the International Organization of Psychophysiology, Pisa (Italy) Sept 13-17, 2012
2010-2011	Member, Local Organizing Committee Chair of the 17 th Annual Meeting of the Human Brain Mapping Organization, 2011 – Quebec City, Canada
2009-2010	Local Organizing Committee Chair of the 16 th Annual Meeting of the Human Brain Mapping Organization, June 6-10, 2010 – Barcelona, Spain
2005-2006	Member, Local Organizing Committee Chair of the 12 th Annual Meeting of the Human Brain Mapping Organization, June 11-15, 2006 – Florence, Italy
2000-2010	Main responsible of the four Italian editions of the "AFNI and SUMA software analyses for fMRI" classes (IBRO supported events), attended by more than 120 international students

Languages

Italian (mother tongue)

English (understanding: C2 – speaking: C2 – writing: C1)

Spanish (understanding: A1 – speaking: A1– writing: A1)

Major Collaborations

- Tomaso Vecchi, psychophysiology in blindness, University of Pavia, Italy
- Antonio Bicchi, grasping and action representation, University of Pisa, Italy
- Maurice Ptito, sensory deprivation in animals and humans, Université de Montréal, Canada
- Luciano Fadiga, action understanding, IIT, Genova, Italy
- Ron Kupers, brain changes in blindness, Panum Institute, University of Copenhagen, Denmark
- Corrado Sinigaglia, action representation, University of Milan, Italy
- Giulio Tononi, sleep and blindness, University of Madison, Wisconsin, USA
- Francesca Siclari, sleep in blind, Lausanne University Hospital, Switzerland
- James Haxby, multivoxel pattern analyses, Dartmouth College, Hanover, NH, USA
- Alfonso Caramazza, neurolinguistics, Harvard University, Boston, USA
- Kang Cheng, high resolution imaging for visual perception, RIKEN Institute, Japan
- Kent Kiehl, brain imaging, Mind Research Network, Albuquerque, NM, USA
- Marco Santello, motor control, Arizona State University, Tempe, Arizona
- Luca Turella, MEG studies in supramodality, University of Trento, Italy
- Francesca Siclari, sleep in sensory deprivation, Lausanne University Hospital, Switzerland
- Simone Rossi, motor control, University of Siena, Italy
- Angelo Quartarone, disorder of consciousness, University of Messina, Italy
- Giovanna Marotta, semantic representation, University of Pisa, Italy
- Francesca Garbarini, neuropsychology of motor control, University of Turin, Italy
- Zaira Cattaneo, neuroesthetics, Bicocca University, Milan, Italy

Fields of Interest

For many years, he has been conducting research in the fields of Cognitive Neuroscience and Psychophysiology, and, in particular, in the assessment of in vitro and in vivo behavioral, structural and functional correlates of physiological and pathological brain function.

- Cognitive and social neuroscience, psychophysiology, neuroimaging, cerebral biochemistry and metabolism
- Use and development of brain functional exploration methodologies, such as positron emission tomography (PET) and functional magnetic resonance imaging (fMRI), in combination with neuropsychological tasks and/or pharmacological agents to study brain functions and metabolism, and brain functional response to sensory stimulation and cognitive/emotional activation tasks in healthy subjects, and in patients with neuropsychiatric disorders
- Neural correlates of visual, tactile and auditory perception and recognition in sighted and congenitally blind individuals; supramodal brain functional organization: sensory-independent object form perception, motion discrimination, spatial localization, action representation and semantic knowledge; cross-modal plasticity
- Action recognition and representation; behavioral and functional correlates of motor control
- Functional correlates of pharmacological modulation on memory and attention in young and older healthy subjects, and in patients with neurodegenerative disorders
- Application of novel tools of brain functional data analysis, including multivoxel pattern analyses and functional/effective connectivity approaches



[Field of interest are represented as a 'word cloud' generated on the frequencies in the main text of candidate's publications]

Editorial Functions

Year	Journal	Role
2012	<i>International Journal</i>	Proceedings of the 16 th World Congress of the

	<i>of Psychophysiology</i>	International Organization of Psychophysiology (IOP) Pisa, Italy - September 13-17, 2012 http://www.sciencedirect.com/science/issue/271907-1-s2.0-S0167876012X00096
Since February 2012	<i>Frontiers in Cognitive Science</i>	Member of the Review Editorial Board
Since 2007	<i>Archives Italiennes de Biologie</i>	Managing Editor and Editorial Board Member
1999 - 2010	<i>Brain Research Bulletin</i>	Assistant of the Section Editor "Normal and Pathological Human Brain Function"

- Regular reviewer for several peer-reviewed journals, including Nature Neuroscience, Current Biology, Trends in Cognitive Sciences, Neurobiology of Aging, Journal of Neuroscience, Neuroscience & Biobehavioral Reviews, Human Brain Mapping, Neuroimage, Cerebral Cortex, Cortex, The American Journal of Psychiatry, European Journal of Neuroscience, Brain Research Bulletin, Frontiers in Psychology, Frontiers in Human Neuroscience, Transaction in Haptics.
- Since 2007, regular reviewer of the abstracts submitted to the Annual Meetings of the Human Brain Mapping Organization.

Teaching

-- Master's degree courses--

- 2015-now Appointed Course of Behavioral and Cognitive Neurosciences for the Master Degree in Bionics Engineering, University of Pisa, Italy
- 2010-now Appointed teachings of:
- Clinical Biochemistry and Clinical Molecular Biology for the Master Degree in Methodologies in Biomedical Laboratory, University of Pisa, Italy
 - Cognitive Basis of Neural Functions for the Master Degree in Sciences and Techniques of Clinical and Health Psychology, University of Pisa, Italy
- 2006-2009 Appointed Course of Integrative seminars and experimental activities I and II for the Master Degree in Sciences and Techniques of Health Psychology, University of Pisa, Italy
- 2005-2006 Appointed Course of Psychodiagnostics of Cognitive Functions for the Master Degree in Sciences and Techniques of Psychology, University of Pavia, Italy
- 2004-now Lectures and seminars for the Internship and Laboratory Experiences at the University of Pisa for the Course of Laboratory Medicine of the Master Degree in Medicine, Course of Biomedical Signals of the Master Degree in Bioengineering, Exogenous Modulation of Brain Activity of the Master Degree in Occupational Therapy.

Since 2004, supervision of >30 undergraduate in the preparation of their final dissertation of the Master Degree Courses of Medicine and Surgery, Clinical Psychology, Biology, Bioengineering at the University of Pisa, Italy

-- Residency programs --

- 2010-now Lectures and Seminars of Clinical Biochemistry, Residency program in Clinical Biochemistry, University of Pisa, Italy

2008-now Seminars in Cognitive Neuroscience, Residency programs in Neurology and Psychiatry, University of Pisa, Italy

-- PhD Courses --

Since 2004, supervision of >10 PhD students in the preparation of their final dissertation of the PhD Courses (including 'Molecular, metabolic and functional exploration of the nervous system and sensory organs') at the University of Pisa, Italy

-- Master --

Invited lectures at several masters:

- 2016-now Master II level 'Neuropsychology: Evaluation, Diagnosis and Rehabilitation' – Catholic University of Milan, Italy
- 2016-now Master II level "Clinical application of Mindfulness in Empathy and Compassion" – University of Pisa, Italy
- 2007-2010 Master II level 'Psicoterapia Integrata ad Orientamento Interpersonale' – University of Pisa, Italy
- 2012-2015 Master II level 'Management per le Funzioni di Coordinamento nell'Area delle Scienze delle Professioni Sanitarie Tecniche Diagnostiche' – University of Pisa, Italy

-- Residential Courses --

- 2016 Lecture on 'Brain connectivity and resting state' at Summer School 'Integration of methodologies and techniques for research, clinic and rehabilitation in psychophysiology and neuroscience' – Catholic University of Milan, Italy
- 2015 Lecture on 'Brain connectivity and resting state' at Summer School 'Integration of methodologies and techniques for research, clinic and rehabilitation in psychophysiology and neuroscience' – Catholic University of Milan, Italy
- 2013 Lecture at Summer School "Advances in Cardiovascular Medicine", University of Pisa, Italy
- 2008 Lecture "EmotivaMente: le basi molecolari della vita emotiva" at Residential Course ECM "Farmacoterapia e Neuroscienze:Quale Integrazione", Bologna, Italy
- 2008 Lecture "Le metodologie di esplorazione funzionale del cervello: quale ruolo per la diagnosi?" at Residential Course ECM 'La Gestione delle Emergenze-Urgenze Neurologiche dell'Adulto', Portoferraio (LI), Italy
- 2003 Lecture "Brain imaging al femminile" at Residential Course ECM "Una psichiatria al femminile", Casa di Cura Park Villa Napoleon Preganziol (TV), Italy

Educational Courses

- Educational Brain Mapping Course: 5th International Conference on Functional Mapping of the Human Brain. June 22–26, 1999. Congress Center Düsseldorf, Germany
- fMRI Educational Brain Mapping Course: 6th International Conference on Functional Mapping of the Human Brain. June 12-16, 2000 – San Antonio, Texas, USA
- fMRI Educational Brain Mapping Course: 7th International Conference on Functional Mapping of the Human Brain. Brighton, UK, 2001
- fMRI Educational Brain Mapping Course: 8th International Conference on Functional Mapping of the Human Brain. Sendai, Japan, 2002
- II International fMRI meeting and autumn school. October 25-27, 2002 - Sant'Agata sui due Golfi – Sorrento (NA)
- Scientific and Statistical Computing Core NIH "Lectures and hands-on sessions about AFNI", Fall 2002, Pisa

- fMRI Educational Brain Mapping Course: 9th International Conference on Functional Mapping of the Human Brain. New York, NY, 2003
- Laboratorio di Biochimica Clinica e Scientific and Statistical Computing Core NIH “Corso di AFNI e SUMA per fMRI”, October 6-10 2003, IFC-CREAS, Area di Ricerca CNR, Pisa
- Laboratorio di Biochimica Clinica e Scientific and Statistical Computing Core NIH “AFNI and SUMA for fMRI”, ottobre 2004, IFC-CREAS, Area di Ricerca CNR, Pisa
- 4th International fMRI meeting and Autumn School Sorrento, November 12-14, 2004
- Advanced fMRI Educational Brain Mapping Course: 10th International Conference on Functional Mapping of the Human Brain. Budapest, Hungary, 2004
- Advanced fMRI Educational Brain Mapping Course: 11th International Conference on Functional Mapping of the Human Brain. Toronto, Canada, 2005
- Advanced fMRI Educational Brain Mapping Course: 12th International Conference on Functional Mapping of the Human Brain. Florence, Italy, 2006
- Body consciousness: brain mechanisms of representation of the self and others. Neuroscience seminar, July 9th-13th, 2007, Soria, Spain
- Advanced MR Brain Imaging Course, 16th Scientific Meeting of International Society for Magnetic Resonance in Medicine, Toronto, Canada - May 3, 2007
- Functional MRI: Methods, Interpretation, and Applications, 16th Scientific Meeting of International Society for Magnetic Resonance in Medicine; Toronto, Canada - May 4, 2007
- Advanced fMRI Educational Brain Mapping Course: 13th International Conference on Functional Mapping of the Human Brain. Chicago, IL, USA, 2007
- ISMRM Workshop on High Field Systems and Applications: “What’s Special about 7T+?” Rome, Italy - October 15-18 2008
- Advanced fMRI Educational Brain Mapping Course: 14th International Conference on Functional Mapping of the Human Brain. Melbourne, Australia, 2008
- Advanced fMRI Educational Brain Mapping Course: 15th International Conference on Functional Mapping of the Human Brain. San Francisco, CA, USA, 2009
- Advanced fMRI Educational Brain Mapping Course: 16th International Conference on Functional Mapping of the Human Brain. Barcelona, Spain, 2010
- Advanced fMRI Educational Brain Mapping Course: 17th International Conference on Functional Mapping of the Human Brain. Quebec City, Canada, 2011
- Brain-Computer Interfaces and Real-Time fMRI Course: 18th International Conference on Functional Mapping of the Human Brain. Beijing, China, 2012

Grants and Funding

Project Title	Duration (months)	Amount (€)	Role
<i>“SoftPro-Synergy-based Open-source Foundations and Technologies for Prosthetics and RehabilitatiOn”</i> , Horizon 2020 Call 2 for Robotics CT 24-2015.2.a Cognitive Systems and Robotics 2016-2019	48	7,440,023	WP responsible
<i>“Synergies in the Brain: measuring brain activity for complex finalized hand movements”</i> , Clinical Research and Innovation 2014 Call, MIT – University	12	15,000	Co-investigator

of Pisa			
Research Award University of Pisa 2015 – <i>'Mens sana in corpore sano? Impact of chronic exercise on psychophysical well-being during aging'</i>	24	55,000	Co-investigator
<i>'Be-Tasty-Molecular, behavioral and neural correlates of food taste perception in blind people'</i> Research grant by the Fondazione Cassa di Risparmio di Lucca (Italy) – call 2015-2016	24	55,000	Co-investigator
Progetti di Ricerca Giovani Ricercatori - Ricerca Finalizzata 2011-2012 Italian Minister of Health: <i>'Development and validation of novel methods for the in vivo assessment of distinct patterns of connectivity in the disorders of consciousness'</i> (GR-2011-02347383)	48	360,088	Principal investigator
Research Program 7 th Framework IST Program: <i>"THE: The hand embodied"</i> (http://www.thehandembodied.eu). Cognitive Systems and Robotics (ICT-2009.2.1), 2010	48	7,175,691	Project Task Leader
Research grant by the Fondazione Cassa di Risparmio di Lucca (Italy) <i>"Mens sana in corpore sano? L'importanza dell'attività fisica cronica sulla salute fisica e mentale"</i> , call 2012-2013	24	55,000	Project Task Leader
<i>"Classificare le azioni: un approccio neurofunzionale per decodificare la rappresentazione degli atti motori nel cervello umano"</i> - Bando Ricercatori Facoltà di Medicina Università di Pisa, 2011	24	18,000	Principal Investigator
Research grant by the Fondazione Cassa di Risparmio di Pisa (Italy) <i>"TRAIN THE BRAIN 2.0: studio clinico e sperimentale dell'efficacia di un intervento di training cognitivo e fisico nella demenza"</i> , 2011	24		Co-investigator
Research grant by the 'Ricerca 2011' call by Fondazione Pisa (Italy) – <i>"Studio clinico, psicometrico e psicobiologico della efficacia comparata di stimolazione magnetica transcranica (TMS) e di stimolazione a corrente elettrica continua (tDCS) in pazienti depressi farmacoresistenti"</i>	36	300,000	Co-investigator
Research grant by the Fondazione Cassa di Risparmio di Lucca (Italy) <i>"Le basi genetiche e cerebrali delle abilità psicomotorie e degli effetti dell'allenamento specifico"</i> , 2010	12	30,000	Project Task Leader
Research grant by the Fondazione Cassa di Risparmio di Lucca (Italy) <i>"Le basi genetiche e cerebrali delle abilità psicomotorie e degli effetti dell'allenamento specifico"</i> , 2011	12	40,000	Project Task Leader
Progetto ordinario del Ministero della Salute <i>"Laboratory medicine, genetic, neuropsychological and clinical assessment for the early detection, prediction of course and response to therapy in subjects at risk for Alzheimer's disease"</i> , 2008	36	270,000	Project Task Leader

Programma di Ricerca Scientifica di Rilevante Interesse Nazionale del Ministero dell'Istruzione dell'Università e della Ricerca: " <i>Correlati Cerebrali della Rappresentazione ed Elaborazione Sopramodale delle Azioni in Individui Vedenti e Non-Vedenti Studiati mediante Risonanza Magnetica Funzionale (fMRI)</i> ", 2009	24	63,000	Co-investigator
Research grant by Montreal Reasearch Institute, Canada: " <i>Neuronal correlates of the Mangina-Test: a functional magnetic resonance imaging study in young healthy adults</i> ", 2007	24	US\$ 20,000	Co-investigator
Research grant by the Fondazione Cassa di Risparmio di Pisa (Italy): " <i>e-SMILER – experimental brain Study on eMotional Interaction Leading to Enhanced Robots</i> ", 2006 (Amount: € 65,000)	24	65,000	Co-investigator
European Community Grant Immersence, IST-2006-027141, Call FP6-2004-IST-4-FET (Presence): "Immersence: Immersive Multi-Modal Interactive Presence" (http://www.immersence.info)	48	5,500,000	Executive Board Member
Research grant by the Italian Ministry of Education, University and Research (MIUR) – PRIN Program 2004: " <i>Brain Activity Associated with Mental Representation of Spatial Information acquired through Visual and/or Tactile Sensory Modalities in Sighted and Blind Individuals Assessed by Functional Magnetic Resonance Imaging (fMRI)</i> ", 2004	24	42,500	Co-investigator
Research grant by the Fondazione Cassa di Risparmio di Pisa (Italy): " <i>EASY.GOV: Progettazione di servizi on-line per enti pubblici, di facile accesso per ampie fasce di utenti eterogenei</i> ", 2004	24		Project Task Leader
Research grant by the Fondazione Gio.I.A., Pisa (Italy) " <i>In vivo study of brain and genetic correlates of maternal behavior in humans. II year of study</i> " 2004	12	65,000	Collaborator
Research grant by the 5 th Framework IST Program of the European Union: " <i>Touch-hapsys: brain correlates of human haptic perception</i> " (http://www.touch-hapsys.org). IST-2002-6.1.1, 2002	48	2,794,996	WP Responsible
Research grant by the Fondazione Gio.I.A., Pisa (Italy) " <i>In vivo study of brain and genetic correlates of maternal behavior in humans</i> ". 2003	12	55,000	Collaborator
Research grant by the Fondazione Cassa di Risparmio di Lucca (Italy) " <i>Neuropsychological and in vivo brain correlates of decision-making process in humans</i> ", 2002	12	25,000	Collaborator
Research grant by the Italian Ministry of Education, University and Research (MIUR) – FIRB Neuroscience Program " <i>Methodologies for the functional exploration of the brain in the study of</i>	12	86,000	Collaborator

<i>cortical function in humans</i> " RBNE018ET9_003, 2002			
Research grant by the Fondazione IRIS, Livorno: " <i>In vivo study of brain correlates of emotional processing during healthy aging in humans</i> ", 2002	12	13,000	Collaborator
Research grant John Templeton Foundation-Campaign for Forgiveness Research (#5103): " <i>Study of the brain functional correlates of forgiveness and unforgiveness in humans by using Positron Emission Tomography (PET) in conjunction with neuropsychological probes</i> ", 2002	36	US\$ 125,000	Collaborator
Research grant by the Italian Health Minister program " <i>Correlation between neurometabolic pattern and cognitive performance in young and older Down subjects</i> ", 2000	24	89,000	Collaborator
Research grant by the Italian Health Minister program " <i>Effects of Cholinergic Modulation on Human Memory and Attention: Functional Brain Studies in Healthy Aging and in Patients with Alzheimer's Disease</i> ", 2000	24	100,000	Collaborator

Occasional Grant reviewer for the Alzheimer's Association (U.S.A.) and for the Virginia Center on Aging (U.S.A.), Romanian National Research Council, Romania, for scientific applications (PRIN program) and for the Italian Ministry of Education, University and Research (MIUR).

Main Invited Lectures and Symposia

- Oral presentation: "Effect of cholinergic modulation on brain response to visual working memory (VWM) as task difficulty increases in young and older subjects" 33rd Annual Meeting of the Society for Neuroscience, New Orleans, USA - November 8-12, 2003
- Oral presentation: "Le basi neuronali delle attività cognitive ed emotive nella comprensione dei rapporti corpo-mente", XVII Congresso Nazionale della Società Italiana per lo Studio delle Cefalee, Pisa, Italy - 2003
- Invited lecture: "Molecular correlates of emotional and aggressive behavior in the male and female human brain. International Conference on Sex, Brain, and Human Aggression", Hanse Institute for Advanced Study, Delmenhorst (Germany) -September 23-26, 2004
- Oral presentation: E. Ricciardi, C. Gentili, M.I. Gobbin, M. Guazzelli, P. Pietrini. Le basi cerebrali della percezione delle emozioni nell'uomo Simposio - Espressione delle emozioni, sviluppo e psicopatologia. 10th Meeting of the Italian Society of Psychopathology. Rome, Italy - February 22-26, 2005
- Oral presentation: E. Ricciardi - Seeing With One's Hands. Mini-symposium A. Pascual-Leone, P. Pietrini, E. Ricciardi, K. Sathian, B. Roeder, A. Amedi, M. Lassonde, L. Merabet. What Have We Learned About Seeing From The Blind? Program No. 807. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2005
- Oral presentation: E. Ricciardi. Esplorazione funzionale del cervello nello studio della percezione del mondo esterno. XIII Congresso Società Italiana di Psicofisiologia Marina di Carrara, Italy - December 2-4, 2005
- Invited lecture: "Esplorazione funzionale del cervello nella percezione del mondo esterno: l'organizzazione sopramodale delle vie corticali "visive", Neurological Clinica Ospedale Sant'Agostino - Modena, Italy - 2006

- Invited lecture: "Seeing With One's Hands: Supramodal Organization of the "Visual" Extrastriate Cortex" Institute of Neuroradiology, University of Zurich, Zurich, Switzerland, April 26 2006
- Oral presentation: E. Ricciardi. "Vedere con le mani: organizzazione sopramodale della corteccia "visiva" extrastriata". XV Edizione del Congresso della Fisiologia Clinica. Area di Ricerca del CNR, Pisa, May 24, 2006
- Oral presentation: E. Ricciardi, "Neurometabolic basis of cognitive impairment", Symposium S207 Cognitive function from health to dementia, 26th International Congress of Applied Psychology, Athens, July 16-21, 2006
- Invited lecture: "Seeing With One's Hands: Supramodal Organization of the "Visual" Extrastriate Cortex" Brain Science Institute Retreat, Riken, Japan November 26-28, 2007
- Oral presentation: "Modulation of specific brain activity by very subtle geometrical perceptual relationships of the Mangina-Test: A functional magnetic resonance imaging study in young healthy adults" e "Cholinergic modulation on brain response to working memory as task difficulty increases in young and older subjects", 14th World Congress of Psychophysiology - The Olympics of the Brain - of the International Organization of Psychophysiology (I.O.P) St. Petersburg, Russia, September 8-13, 2008
- Invited lecture: "Neuroimaging e neuro fenomenologia: le basi neurali della coscienza", Facoltà di Medicina, Università di Pisa, Italy - February 29, 2008
- Invited lecture: "Towards an in vivo biochemistry of the mind" - Multidisciplinary Conference, Pisa Italy, October 26-30, 2008
- Invited lecture: "Come si comporta il cervello al buio: l'organizzazione funzionale dell'apprendimento e dell'elaborazione delle informazioni nei soggetti non vedenti dalla nascita", Simposio "Nuove Conoscenze Sulle Basi Neurali Della Coscienza e Dei Suoi Disturbi", 13th Annual Meeting of the Italian Society of Psychopathology, Roma, February 2009
- Invited lecture: "La risonanza magnetica funzionale", Corso di Aggiornamento "Esplorazione funzionale del cervello" 15th Annual Meeting of the Italian Society of Psychophysiology, Siena, Italy - October 2009
- Invited lecture: "fMRI of the mirror system: how blind people "see" the actions of others", Risonanza Magnetica in Medicina: dalla ricerca tecnologica avanzata alla pratica clinica, Roma, Italy - April 1, 2011
- Invited lecture: "What could we learn from the blind brain", Institute of Neuroscience & Pharmacology, Panum Institute University of Copenhagen, Copenhagen, Denmark - May 10, 2011
- Invited lecture: "Neurosemantic decoding in the dark", International Conference on 'Semantic Representations in the Blind', Pisa (Italia), October 5-6, 2012
- Invited lecture: Università degli Studi di Messina, Messina (Italia), October 10 2012
- Invited lecture: "Una rappresentazione sopramodale e topografica delle azioni nel cervello umano", Dipartimento di Filosofia, University of Milan, Milan (Italia), 21 maggio 2013
- Invited lecture: 'L'immagine nella mente, tra neuroscienze e pensiero' nell'ambito del ciclo di incontri 'Fine dell'immagine: tra media, neuroscienze e filosofia', Palazzo Ducale, Genova (Italia), June 3, 2013
- Invited lecture: "Experimental Methods: Theory and Application of Functional Neuroimaging", 10th Research Training Seminarin Child & Adolescent Psychiatry, Bocca di Magra (Italia), June 23-28, 2013
- Oral presentation: "The functional neuroanatomy of the blind brain: is there a supramodal cortical functional architecture?"- The Blind Brain Workshop, Pisa (Italia), October 16-18, 2013

- Invited lecture: Harvard Medical School, Boston, December 5, 2013
- Invited lecture: "Porgere l'altra guancia? Il ruolo biologico del perdono tra comportamento prosociale e vendetta", 3° Convegno di neuroscienze, neuropsicologia e psicoterapia, Performat Salute, Pisa, March 1, 2014
- Invited lecture: "Experimental Methods: Theory and Application of Functional Neuroimaging", 11th Research Training Seminar in Child & Adolescent Psychiatry, Camposampiero (Italia), May 25-30, 2014
- Invited lecture: "Neuroscienze e architettura", Facoltà di Architettura, University of Florence, June 25, 2014
- Invited lecture: "Decoding and encoding approaches to fMRI data: from supramodal perception to cognitive and motor representations", Brain Information Communication Research Laboratory Group, Advanced Telecommunications Research Institute International, Kyoto (Japan), September 22, 2014
- Oral presentation: "Towards a supramodal organization of conceptual knowledge", 17th World Congress of Psychophysiology, September 25, 2014, Hiroshima, Japan
- Invited lecture: "Il ruolo delle metodologie di esplorazione funzionale in vivo del nell'inquadramento dei pazienti con disordini di coscienza" durante il Convegno "La coscienza e i suoi disordini in neuroriabilitazione" Pisa, October 04, 2014
- Invited lecture: "The 'alphabet' of human hand movements: a multimodal protocol to assess the cortical encoding of postural synergies", Human Centered And Rehabilitation Robotics Workshop, Istituto Italiano di Tecnologia, Genova, Italy - March 24, 2015
- Invited lecture: "Neuroscienze e architettura 2.0", Facoltà di Architettura, University of Florence - June 19, 2015
- Invited lecture: "Come la mancanza della vista influenza l'architettura morfologica e funzionale del cervello" at the Scientific Workshop "Oltre lo Sguardo: il cervello amico. Disabilità visiva e plasticità cerebrale", Padova, Italia - June 26, 2015
- Invited lecture: "Luci ed ombre delle neuroimmagini nello studio della coscienza" at the Workshop 'Le alterazioni della Coscienza: Fisiologia e Clinica', Pisa, Italy – October 16, 2015
- Oral presentation: 'Constructing models of perception, cognition, and action: Novel decoding and encoding approaches to brain functional data', XXIII Annual Meeting of the Italian Society of Psychophysiology, Lucca, Italy – November 20, 2015
- Invited lecture: 'The blind brain. How (lack of) vision shapes the development of the morphological and functional architecture of the human brain', Center for Mind/Brain Sciences (CIMeC), University of Trento, Italy – December 4, 2015
- Invited lecture: 'Multivariate approaches in brain imaging: from motor encoding to action representation decoding', First European Seminar on Sport Psychology "Sport & Exercise Psychology Under the Leaning Tower", Pisa, Italy - March 7, 2016
- Invited Lecture: 'Oltre le immagini sensoriali: percezione e cognizione sociale nella cecità', IRCSS C. Mondino, Pavia (Italy) - March 15, 2016
- Invited Lecture: 'New light from the dark: understanding the sighted brain by studying the blinds', 10th Workshop 'Concepts, Actions and Objects: Functional and Neural Perspectives, Rovereto (Italy) – May 6th, 2016
- Invited Lecture: 'Valore diagnostico e prognostico delle metodologie di esplorazione funzionale in vivo del cervello nei pazienti con disordini di coscienza', 65th Annual Meeting of the Italian Society of Clinical Neurophysiology, Latina (Italy) – May 25th, 2016

Science Popularization Activities

Public talks on brain imaging and neurosciences have been presented to college students (Galileo Project, Regione Toscana, 2014-2015) or general audience (e.g., Brain Awareness Week, Science Festivals, etc.). Interviews have been broadcasted to local and national newspaper, radio and TV.

Peer-reviewed journals

1. Pietrini P, Furey M.L, Ricciardi E, Gobbini M.I, Wu H-WC, Cohen L, Guazzelli M, Haxby J.V. Beyond sensory images: Object-based representation in the human ventral pathway. *Proceedings of the National Academy of Sciences U.S.A.* 101(15): 5658-5663, 13, 2004
2. Freo U, Ricciardi E, Pietrini P, Schapiro MB, Rapoport S, Furey ML. Cholinergic Modulation Influences Different Cortical Regions during Working Memory in Young and Older Humans". *American Journal of Psychiatry* 162(11): 2061-2070, 2005
3. Ricciardi E, Bonino D, Gentili C, Sani L, Pietrini P, Vecchi T. Neural Correlates Of Spatial Working Memory In Humans: A Functional Magnetic Resonance Imaging Study Comparing Visual And Tactile Processes. *Neuroscience*, 139(1): 339-49, 2006
4. Ricciardi E, Vanello N, Sani L, Gentili C, Scilingo EP, Landini L, Guazzelli M, Bicchi A, Haxby J.V, Pietrini P. The effect of visual experience on the development of functional architecture in hMT+. *Cerebral Cortex*. 17 (12): 2933-9, 2007
5. Furey ML, Ricciardi E, Schapiro MB, Rapoport SI, Pietrini P. Cholinergic Enhancement Eliminates Modulation of Neural Activity by Task Difficulty in the Prefrontal Cortex during Working Memory. *Journal of Cognitive Neuroscience*; 20(7): 1342-53, 2008
6. Bicchi A, Scilingo EP, Ricciardi E, Pietrini P. Tactile flow explains haptic counterparts of common visual illusions. *Brain Research Bulletin*, 75(6): 737-741, 2008
7. Cattaneo Z, Vecchi T, Cornoldi C, Mammarella I, Bonino D, Ricciardi E, Pietrini P. Imagery and spatial processes in blindness and visual impairment. *Neuroscience and Biobehavioral Reviews*, 32(8): 1346-60, 2008
8. Casarotto S, Bianchi AM, Ricciardi E, Gentili C, Vanello N, Guazzelli M, Pietrini P, Chiarenza GA, Cerutti S. Spatiotemporal dynamics of single-letter reading: a combined ERP-fMRI study. *Archives Italiennes de Biologie*, 146(2): 83-105, 2008
9. Vanello N, Hartwig V, Tesconi M, Ricciardi E, Tognetti A, Zupone G, Gassert R, Chapuis D, Sgambelluri N, Scilingo EP, Giovannetti G, Positano V, Santarelli, MF, Bicchi A, Pietrini P, De Rossi D, Landini L. Sensing glove for brain studies: Design and assessment of its compatibility for fMRI with a robust test. *IEEE/ASME Transactions on Mechatronics* 13(3): 345-354, 2008
10. Gentili C, Gobbini M.I, Ricciardi E, Vanello N, Pietrini P, Haxby J.V, Guazzelli M. Differential modulation of neural activity throughout the distributed neural system for face perception in patients with Social Phobia and healthy subjects. *Brain Research Bulletin*, 77(5): 286-292, 2008
11. Bonino D, Ricciardi E, Sani L, Gentili C, Vanello N, Guazzelli M, Vecchi T, Pietrini P. Tactile spatial working memory activates the dorsal extrastriate cortical pathway in congenitally blind individuals. *Archives Italiennes de Biologie*, 146(3/4): 133-146, 2008
12. Ricciardi E, Pietrini P, Schapiro MB, Rapoport SI, Furey ML. Cholinergic modulation of visual working memory during aging: A parametric PET study. *Brain Research Bulletin* 79(5): 322-332, 2009
13. Gentili C, Ricciardi E. Gobbini MI, Santerelli MF, Haxby JV. Pietrini P, Guazzelli M. Beyond Amygdala: Default mode network activity differs between patients with Social Phobia and healthy controls. *Brain Research Bulletin* 79(6): 409-413, 2009
14. Mangina CA, Beuzeron-Mangina H, Ricciardi E, Pietrini P, Chiarenza GA, Casarotto S. Neural correlates of "analytical-specific visual perception" and degree of task difficulty

- as investigated by the Mangina-Test: A functional magnetic resonance imaging (fMRI) study in young healthy adults. *International Journal of Psychophysiology*, 73(2): 150-156, 2009
15. Mangina CA, Beuzeron-Mangina H, Casarotto S, Pietrini P, Chiarenza GA, Ricciardi E. Modulation of specific brain activity by the perceptual analysis of very subtle geometrical relationships of the Mangina-Test stimuli: A functional magnetic resonance imaging (fMRI) investigation in young healthy adults. *International Journal of Psychophysiology*, 73(2): 157-163, 2009
 16. Ricciardi E, Bonino D, Sani L, Vecchi T, Guazzelli M, Haxby J.V, Fadiga L, Pietrini P.: Do We Really Need Vision? How Blind People "See" the Actions of Others. *Journal of Neuroscience*, 29(31): 9719–9724, 2009
 17. Matteau I, Kupers R, Ricciardi E, Pietrini P, Ptito M. Beyond visual, aural and haptic movement perception: hMT+ is activated by electro-tactile motion stimulation of the tongue in sighted and in congenitally blind individuals. *Brain Research Bulletin* 82 (5-6), pp. 264-270
 18. Danti S, Ricciardi E, Gentili C, Gobbini MI, Pietrini P, Guazzelli M.. Is Social Phobia a "mis-communication" disorder? Brain functional connectivity during face perception differs between patients with Social Phobia and healthy control subjects. *Frontiers in System Neuroscience*. 4: article no. 152, 2010
 19. Gobbini MI, Gentili C, Ricciardi E, Bellucci C, Salvini P, Laschi C, Guazzelli M, Pietrini P. Distinct Neural Systems Involved in Agency and Animacy Detection. *Journal of Cognitive Neuroscience*, 23(8): 1911-1920, 2011
 20. Sani L, Ricciardi E, Gentili C, Vanello N, Haxby JV, Pietrini P. Effects of Visual Experience on the Human MT+ Functional Connectivity Networks: An fMRI Study of Motion Perception in Sighted and Congenitally Blind Individuals. *Frontiers in Systems Neuroscience*, 4: article no. 159, 2010
 21. Ricciardi E, Basso D, Sani L, Bonino D, Vecchi T, Pietrini P, Miniussi C. Functional inhibition of the human middle temporal cortex affects non-visual motion perception: a repetitive transcranial magnetic stimulation study during tactile speed discrimination. *Experimental Biology and Medicine (Maywood)*, 236(2): 138-144, 2011
 22. Kupers R, Ricciardi E, Pietrini P, Ptito M. The nature of consciousness in the visually deprived brain. *Frontiers in Psychology* 2: article no. 19, 2011
 23. Ricciardi E, Pietrini P. New light from the dark: what blindness can teach us about brain function. *Current Opinion in Neurology*, 24(4): 357-363, 2011
 24. Basso D, Pavan A, Ricciardi E, Fagioli S, Vecchi T, Miniussi C, Pietrini P. Touching motion: RTMS on the human middle temporal complex interferes with tactile speed perception. *Brain Topography*, 25(4): 389-398, 2012
 25. Leo A, Bernardi G, Handjaras G, Bonino D, Ricciardi E, Pietrini P. Increased BOLD variability in the parietal cortex and enhanced parieto-occipital connectivity during tactile perception in congenitally blind individuals. *Neural Plasticity*, art. no. 720278, 2012
 26. Gaglianese A, Costagli M, Bernardi G, Ricciardi E, Pietrini P. Evidence of a direct influence between the thalamus and hMT+ independent of V1 in the human brain as measured by fMRI. *NeuroImage*, 60(2): 1440-1447, 2012
 27. Helbig HB, Ernst MO, Ricciardi E, Pietrini P, Thielscher A, Mayer K.M, Schultz J, Noppeney U. The neural mechanisms of reliability weighted integration of shape information from vision and touch. *NeuroImage*, 60(2): 1063-1072, 2012
 28. Bambini V, Gentili C, Ricciardi E, Bertinetto PM, Pietrini P. Decomposing metaphor processing at the cognitive and neural level through functional magnetic resonance

- imaging. *Brain Research Bulletin*. 86(3-4): 203-216, 2012
29. Romagno D, Rota G, Ricciardi E, Pietrini P. Where the brain appreciates the final state of an event: The neural correlates of telicity. *Brain and Language* 123(1): 68-74, 2012
 30. Casarotto S, Ricciardi E, Romani S, Dalli D, Pietrini P. Covert brand recognition engages emotion-specific brain networks. *Archives Italiennes de Biologie* 150(4): 259-273, 2012
 31. Ricciardi E, Handjaras G, Bernardi G, Pietrini P, Furey ML. Cholinergic enhancement reduces functional connectivity and BOLD variability in visual extrastriate cortex during selective attention. *Neuropharmacology* 64: 305-313, 2013
 32. Ricciardi E, Handjaras G, Bonino D, Vecchi T, Fadiga L, Pietrini P. Beyond Motor Scheme: A Supramodal Distributed Representation in the Action-Observation Network, *PLoS ONE* 8 (3), art. no. e58632, 2013
 33. Renzi C, Ricciardi E, Bonino D, Handjaras G, Vecchi T, Pietrini P. The Effects of Visual Control and Distance in Modulating Peripersonal Spatial Representation, *PLoS ONE* 8 (3), art. no. e59460, 2013
 34. Handjaras G, Ricciardi E, Szczepanik J, Pietrini P, Furey ML. Cholinergic enhancement differentially modulates neural response to encoding during face identity and face location working memory tasks. *Experimental Biology and Medicine (Maywood)* 238(9): 999-1008, 2013
 35. Slimani H, Danti S, Ricciardi E, Pietrini P, Ptito M, Kupers R. Hypersensitivity to pain in congenital blindness. *Pain* 154(10): 1973-1978, 2013
 36. Bernardi G, Ricciardi E, Sani L, Gaglianese A, Papisogli A, Ceccarelli R, Franzoni F, Galetta F, Santoro G, Goebel R, Pietrini P. How Skill Expertise Shapes the Brain Functional Architecture: An fMRI Study of Visuo-Spatial and Motor Processing in Professional Racing-Car and Naive Drivers. *PLoS ONE* 8(10), art. no. e77764, 2013. doi: 10.1371/journal.pone.0077764
 37. Costagli M, Ueno K, Sun P, Gardner JL, Wan X, Ricciardi E, Pietrini P, Tanaka K, Cheng K. Functional Signalers of Changes in Visual Stimuli: Cortical Responses to Increments and Decrements in Motion Coherence. *Cerebral Cortex*, 24 (1), 110-118, 2014
 38. Ricciardi E, Bonino D, Pellegrini S, Pietrini P. Mind the blind brain to understand the sighted one! Is there a supramodal cortical functional architecture? *Neuroscience and Biobehavioural Reviews*, 41: 64-77, 2014
 39. Ricciardi E, Rota G, Sani L, Gentili C, Gaglianese A, Guazzelli M, Pietrini P. How the brain heals emotional wounds: the functional neuroanatomy of forgiveness. *Frontiers in Human Neuroscience*, 7:839, 2013 eCollection 2013.
 40. Ricciardi E, Handjaras G, Pietrini P. The blind brain: How (lack of) vision shapes the morphological and functional architecture of the human brain. *Experimental Biology and Medicine (Maywood)* 239(11): 1414-1420, 2014
 41. Ricciardi E, Tozzi L, Leo A, Pietrini P. Modality dependent cross-modal functional reorganization following congenital visual deprivation within occipital areas: A meta-analysis of tactile and auditory studies. *Multisensory Research*, 27(3-4): 247-262, 2014
 42. Tomaiuolo F, Campana S, Collins L, Fonov V, Ricciardi E, Sartori G, Pietrini P, Kupers R, Ptito M. Volumetric Changes of the Corpus Callosum Reflect Crossmodal Neuroplastic Changes in Congenital Blindness. *PLoS ONE*, 9(9):e107871, 2014
 43. Bonino D, Ricciardi E, Bernardi G, Sani L, Gentili C, Vecchi T, Pietrini P. Spatial imagery relies on a sensory independent, though sensory sensitive, functional organization within the parietal cortex: A fMRI study of angle discrimination in

- sighted and congenitally blind individuals. *Neuropsychologia*, 68:59-70, 2015
44. Cecchetti L, Ricciardi E, Handjaras G, Kupers R, Ptito M, Pietrini P. Congenital blindness affects diencephalic but not mesencephalic structures in the human brain. *Brain Structure and Function*, 2015 Jan 6. [Epub ahead of print]
 45. Bernardi G, Cecchetti L, Handjaras G, Sani L, Gaglianese A, Ceccarelli R, Franzoni F, Galetta F, Santoro G, Goebel R, Ricciardi E, Pietrini P. It's not all in your car: functional and structural correlates of exceptional driving skills in professional racers. *Frontiers of Human Neuroscience*, 8:888, 2014
 46. Bernardi G, Siclari F, Yu X, Zennig C, Bellesi M, Ricciardi E, Cirelli C, Ghilardi M.F, Pietrini P, Tononi G. Neural and Behavioral Correlates of Extended Training during Sleep Deprivation in Humans: Evidence for Local, Task-Specific Effects. *Journal of Neuroscience*, 35(11): 4487-4500, 2015
 47. Handjaras G, Bernardi G, Benuzzi F, Nichelli PF, Pietrini P, Ricciardi E. A topographical organization for action representation in the human brain. *Human Brain Mapping*, 36(10):3832-3844, 2015
 48. Gentili C, Vanello N, Cristea I, David D, Ricciardi E, Pietrini P. Proneness to social anxiety modulates neural complexity in the absence of exposure: A resting state fMRI study using Hurst exponent. *Psychiatry Research*, 232(2): 135-144, 2015 doi: 10.1016/j.psychres.2015.03.005
 49. Gaglianese A, Costagli M, Ueno K, Ricciardi E, Bernardi G, Pietrini P, Cheng K. The direct, not V1-mediated, functional influence between the thalamus and middle temporal complex in the human brain is modulated by the speed of visual motion. *Neuroscience*, Volume 284, Pages 833-844, 2015
 50. Gentili C, Cristea IA, Ricciardi E, Costescu C, David D, Pietrini P. Neurobiological correlates of the attitude toward human empathy. *Rivista Internazionale di Filosofia e Psicologia*, 6(1):70-87, 2015
 51. Vanello N, Ricciardi E, Landini L. Analysis of residual dependencies of independent components extracted from fMRI data. *Computational Intelligence and Neuroscience*, Volume 2016, Article number 2961727, 2016
 52. Bernardi G, Cecchetti L, Siclari F, Buchmann A, Yu X, Handjaras G, Bellesi M, Ricciardi E, Kecskemeti SR, Riedner BA, Alexander AL, Benca RM, Ghilardi MF, Pietrini P, Cirelli C, Tononi G. Sleep reverts changes in human gray and white matter caused by wake-dependent training. *Neuroimage*, 129:367-377, 2016
 53. Leo A, Handjaras G, Bianchi M, Marino H, Gabiccini M, Guidi A, Scilingo EP, Pietrini P, Bicchi A, Santello M, Ricciardi E. A synergy-based hand control is encoded in human motor cortical areas. *Elife*, 2016 Feb 16;5 pii: e13420. doi: 10.7554/eLife.13420
 54. Santello M, Bianchi M, Gabiccini M, Ricciardi E, Salvetti G, Prattichizzo D, Ernst M, Moscatelli A, Joërntel H, Kappers AML, Kyriakopoulos K, Schaeffer AA, Castellini C, Bicchi A. Hand synergies: Integration of robotics and neuroscience for understanding the control of biological and artificial hands. *Physics of Life Reviews*, 2016 Feb 3. doi: 10.1016/j.plrev.2016.02.001 [Epub ahead of print]
 55. Handjaras G, Ricciardi E (*co-first author*), Leo A, Lenci A, Cecchetti L, Cosottini M, Marotta G, Pietrini P. How concepts are encoded in the human brain: a modality independent, category-based cortical organization of semantic knowledge. *Neuroimage*, 135:232-242, 2016
 56. Tomaiuolo F, Cecchetti L, Gibson R, Logi F, Owen A, Malasoma F, Cozza S, Pietrini P, Ricciardi E. Progression from vegetative state (VS) to minimally conscious state (MCS) is associated with changes in brain neural response to passive tasks: A longitudinal single-case fMRI study. *Journal of the International Neuropsychological Society*, 22:1-11, 2016

57. Papale P, Chiesi L, Rampinini A, Pietrini P, Ricciardi E. When neuroscience 'touches' architecture: from hapticity to a supramodal functioning of the human brain. *Frontiers in Psychology*, 7:866, doi: 10.3389/fpsyg.2016.00866, 2016

Citazioni: 1298 (Scopus) – 1883 (Google Scholar)

H-index: 20 (Scopus) – 22 (Google Scholar)

Total IF: 212 (average IF 4)

Peer-reviewed Journals in Italian

1. Guazzelli M, Monosi ML, Ricciardi E: Etica nella ricerca psicofarmacologica. *Problemi in Psichiatria*. 15: 31-48, 1998
2. Ricciardi E, Furey ML, Guazzelli M, Panicucci E, Pietrini P. Alla Ricerca delle Basi Neurobiologiche delle Emozioni e del Comportamento nell'Uomo: Il Ruolo delle Nuove Strategie Sperimentali per lo Studio in Vivo del Cervello. *Problemi in Psichiatria*, 29: 5, 2003
3. Ricciardi E, Gentili C, Watson NV, Pietrini P. Verso la comprensione delle differenze di genere. *Problemi in Psichiatria*, 35: 45-59, 2004
4. Pietrini P, Ricciardi E, Gentili C, Bonino D, Vanello N, Sani L, Danti S, Guazzelli M, Bicchi A, Vecchi T.E, Haxby J.V. Oltre le immagini sensoriali: la rappresentazione degli oggetti nella via visiva ventrale. *Neurological Sciences*, 26: S81–S83, 2005
5. Pietrini P, Bonino D, Rota G, Ricciardi E. Quando la musica "dà alla testa": la sinfonia che influisce sul cervello. *CODICE 602*, 1: 38-49, 2010
6. Fusi J, Guidotti E, Innocenti A, Tocchini L, Ricciardi E, Rossi M, Galetta F, Santoro G, Franzoni F. L'attività fisica regolare previene lo stress nitrosativo indotto dall'invecchiamento in atleti anziani. *The Journal of Sport and Anatomy*, 1: 2-7, 2015
7. Ricciardi E, Pietrini P. Angelo Mosso e Archives Italiennes de Biologie. *pH*, 1: 58-62, 2016

Book Chapters

1. Panicucci P, Giovacchini G, Ricciardi E, Guazzelli M. Cefalee con comorbidità psichiatrica: un modello psiconeurobiologico di vulnerabilità reciproca. In "Le cefalee". F.M. Puca, G. Bussone, V. Gallai, S. Genco, M. Guazzelli, V. Guidetti, P. Martelletti, M.P. Prudenzano (Ed.) 302-307, 1998
2. Guazzelli M, Ricciardi E, Pietrini P. Correlati neurometabolici del decadimento cognitivo nella malattia di Alzheimer: implicazioni per la terapia. In: *Demenze: aggiornamenti clinico terapeutici*. E. Aguglia (Ed.). CIC Edizioni internazionali, Roma 2001
3. Furey ML, Ricciardi E, Guazzelli M, Pietrini P. Basi neuronali degli effetti della modulazione farmacologica del sistema colinergico: studi PET e fMRI nell'uomo. In: *Demenze: aggiornamenti clinico terapeutici*. E. Aguglia (Ed.). CIC Edizioni internazionali, Roma 2001
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5. Ricciardi E, Bonino D, Sani L, Pietrini P. Functional Exploration Studies of Supramodal Organization in the Human Extrastriate Cortex. In "The Sense of Touch and its Rendering: Progresses in Haptics Research", A. Bicchi, M. Buss, M.O. Ernst, A. Peer (Eds.), "Springer Tracts in Advanced Robotics", Springer, STAR series, 2008 – ISBN: 978-3540790341, 978-3540790358
6. Ricciardi E, Renzi C, Bonino D, Kupers R, Pietrini P, Space representation in the absence of sight in the human brain. In "Space in Language", Marotta G., Lenci A., Meini L., Rovai F. (Eds.) – ETS, Pisa-Italia, pp. 95-121, 2010 – ISBN: 978-8846729026
7. Vanello N, Hartwig V, Scilingo EP, Bonino D, Ricciardi E, Tognetti A, Pietrini P, De Rossi D, Landini L, Bicchi A. FMRI Compatible Sensing Glove for Hand Gesture Monitoring. In "Immersive Multimodal Interactive Presence", Peer A., Giachritsis C.D. (Eds.) - "Springer Series on Touch and Haptic Systems" - Springer-Verlag, pp. 215-228, 2012 – ISBN: 978-1447127536
8. Leo A, Handjaras G, Rampinini A, Ricciardi E, Pietrini P. Space representation in the absence of sight in the human brain. In "parlare senza vedere", Marotta G., Meini L., Donati M. (Eds.) – ETS, Pisa-Italia, pp. 35-50, 2013 - ISBN: 978-884673668
9. Cecchetti L, Handjaras G, Ricciardi E Il ruolo delle metodologie di esplorazione funzionale in vivo del nell'inquadramento dei pazienti con disturbi di coscienza. In 'La coscienza e i suoi disturbi in neuroriabilitazione', B. Rossi, M. C. Carboncini (Eds.) – Felici Edizioni, Pisa, 2014
10. Cecchetti L, Tomaiuolo F, Ricciardi E. Luci e ombre delle neuroimmagini nella valutazione dei disturbi di coscienza. In 'Il teatro della coscienza: autori, attori, spettatori', B. Rossi, M. C. Carboncini (Eds.) – Felici Edizioni, Pisa, 2015
11. Leo A, Handjaras G, Marino H, Bianchi M, Pietrini P, Ricciardi E The motor control of hand movements in the human brain: toward the definition of a cortical representation of postural synergies. In: 'Human and robot hands - Sensorimotor Synergies to Bridge the Gap between Neuroscience and Robotics', Moscatelli A. and Bianchi M. (Editors), - Springer Publishing Company, 2016

Peer-reviewed short papers in international conferences

1. Ricciardi E., G.E. Alexander, M.L. Furey, G.Giovacchini, B. Horwitz, A. Dani., M. Guazzelli., S.I. Rapoport , M.B. Schapiro, P. Pietrini.: Coupling between regional cerebral glucose metabolism and blood flow at rest in young and older healthy subjects. Neuroimage 9:S265, 1999
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3. Ricciardi E., P. Pietrini, U. Freo, M.L. Furey. Effects of healthy aging on the brain functional response to cholinergic enhancement during a visual working memory task in humans. Neuroimage 11(5): S447, 2000
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5. Pietrini P, Furey ML, Ricciardi E, Gobbini MI, Guazzelli M, Haxby JV. Seeing with one's hands: supramodal cortical organization of perception in the human brain revealed by

- fMRI. *International Journal of Psychophysiology*, 45:1-2, 56, 2002
6. Vanello N., V. Positano, E. Ricciardi, M.F. Santarelli, M. Guazzelli, P. Pietrini, L. Landini, "Independent Component Analysis of fMRI Data: a Model Based Approach for Artifacts Separation", 1st International IEEE/EMBS Conference on Neural Engineering, Capri, 20-22 Marzo 2003
 7. Ricciardi E., P. Pietrini, S.I. Rapoport, M.B. Schapiro, M.L. Furey. Effect of healthy aging on the cholinergic modulation of the interaction between prefrontal cortex (PFC) activity and visual working memory (vWM) task difficulty. Presented at the 9th International Conference on Functional Mapping of Human Brain Mapping, June 19-22, 2003, New York, NY. Available on CD-Rom in NeuroImage, Vol. 19 #208
 8. Furey M.L., E. Ricciardi, S.I. Rapoport, M.B. Schapiro, P. Pietrini. Cholinergic Enhancement during Working Memory Eliminates Regional Cerebral Blood Flow (rCBF) Modulation Associated with Task Difficulty in Prefrontal Cortex. Presented at the 9th International Conference on Functional Mapping of Human Brain Mapping, June 19-22, 2003, New York, NY. Available on CD-Rom in NeuroImage, Vol. 19 #402
 9. Vanello N., V. Positano, E. Ricciardi, M. F. Santarelli, M. Guazzelli, P. Pietrini, L. Landini. Separation of movement and task related fMRI signal changes in a simulated data set by Independent Component Analysis. Presented at the 9th International Conference on Functional Mapping of Human Brain Mapping, June 19-22, 2003, New York, NY. Available on CD-Rom in NeuroImage, Vol. 19 #968
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