

## **CURRICULUM VITAE**

**Pietro PIETRINI, M.D., Ph.D.**

Date of Birth

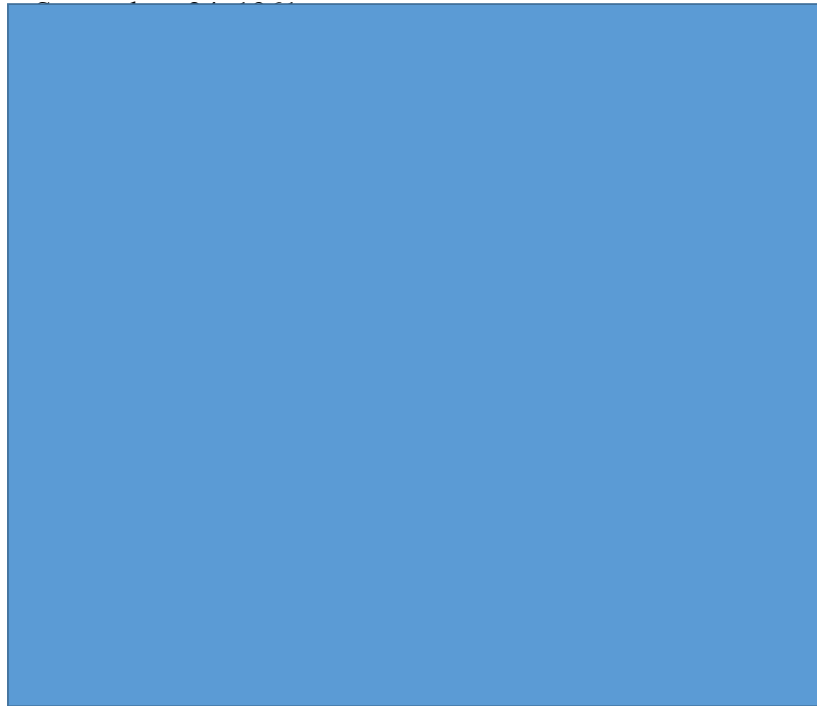
Place of Birth

Business address

Private address

Citizenship

Visa



### **Current Positions**

- 2015-on      Director, IMT School for Advanced Studies, Lucca (Italy)
- Professor and Chair of Clinical Biochemistry and Molecular Biology, IMT School for Advanced Studies, Lucca (Italy)
- Director, Molecular Mind Lab (MoMILab), Scuola IMT
- 2013-on      President, Fondazione IRIS (Istituto per la Riabilitazione e l'Integrazione Sociale), Castagneto Carducci, Livorno

## Previously held positions

- 2015-17      President, Fondazione Mario Tobino (Lucca, Italy)  
<http://www.fondazionemariotobino.it>
- 2013-16      Visiting Professor, Chinese Academy of Sciences (Beijing, China)
- 2000-15      Professor (with tenure) and Chair of Clinical Biochemistry and  
Molecular Biology, Director of the Clinical Biochemistry  
Laboratory, University of Pisa Medical School, Pisa (Italy)
- 2000-12      Director of the Laboratory of Specialized Clinical Biochemistry  
and Molecular Biology at the Azienda Ospedaliera Universitaria  
Pisana, University of Pisa Medical School, Pisa, Italy
- 2013- 15      President, Consiglio Aggregato di Corso di Laurea Triennale  
Triennale in Scienze e Tecniche di Psicologia della Salute e del  
CdL Magistrale in Psicologia Clinica e della Salute
- 2012- 15      Director, Clinical Psychology Branch, Azienda Ospedaliero  
Universitaria Pisana (A.O.U.P.), Pisa, Italy
- Vice President, Scientific Committee for Area 05, University of  
Pisa

## **Fields of Interest and areas of expertise**

Cognitive neuroscience, biological psychiatry, human brain mapping, molecular biology, genetic determinants of vulnerability to mental disorders and of response to treatment (pharmacogenetics and pharmacogenomics). Study of the genetic and neurobiological bases of social and antisocial behavior and its implication for forensic psychiatry, ethics and the law.

Application of functional magnetic resonance imaging (fMRI) and positron emission tomography (PET) in combination with neuropsychological tasks and/or pharmacological agents to study brain functions and metabolism and the brain functional response to sensory stimulation and cognitive/emotional activation and behavioral tasks in healthy subjects at different ages and in patients with neuropsychiatric disorders, including Alzheimer's disease, Sleep apnea syndrome, frontal lobe dementia, depression, obsessive-compulsive disorder and Down syndrome.

Use of brain imaging technique in the early diagnosis of Alzheimer disease in subjects at risk for Alzheimer disease (e.g., Down syndrome) and in the characterization of clinical subtypes in relation to the differential distribution of the neuropathological process.

Study of the functional cortical organization in relation to visual and tactile perception in humans.

## Education

- 1990 Board Certified in Psychiatry (Italy), *Magna cum Laude*
- 1990 Ph. D. in Neurosciences, at Scuola Superiore di Studi Universitari e di Perfezionamento "Sant'Anna", Pisa, *Magna cum Laude*
- 1987 Diploma as Internal Student in Medicine and Surgery at Scuola Superiore di Studi Universitari e di Perfezionamento "Sant'Anna", Pisa, *Magna cum Laude*
- 1986-89 Post-graduate student in "Perfezionamento" (an Italian Research Doctorate) at Scuola Superiore di Studi Universitari e di Perfezionamento "Sant'Anna", Pisa
- 1986 Italian State Medical Board Licensure Examination  
Degree in Medicine and Surgery, University of Pisa, *Magna cum Laude*
- 1985-87 Student in Biochemistry, University of Pisa
- 1980-86 Medical Student, at the Scuola Superiore di Studi Universitari e di Perfezionamento "Sant'Anna" (Applied Sciences Section of Scuola Normale Superiore), Pisa, Italy

## Board Certifications

ECFMG Certificate (Habilitation to practice medicine in the USA).

FLEX (Federal Licensure Examination), USA

Italian State Medical Board License

Board-certification in Psychiatry (Italy)

## Professional Experience

- 2015-on Tenured Full Professor and Chair of Clinical Biochemistry and Molecular Biology, IMT School for Advanced Studies Lucca, Italy  
Director (Rector) IMT School for Advanced Studies Lucca, Italy
- 2000-15 Full Professor (Tenured in Oct. 2003) and Chair of Clinical Biochemistry and Molecular Biology, Director of the Clinical Biochemistry Laboratory, University of Pisa Medical School, Pisa, Italy
- 2007- 11 Director, Department of Laboratory Medicine and Molecular Diagnostics, A.O.U.P., University Hospital, Pisa (Italy)
- 2000 Tenured Assistant Professor, Faculty of Medicine and Surgery, University of Pisa Medical School, Pisa (Italy)
- 1997-05 Special Volunteer, Cognitive Neuroscience Section, National Institute of Neurological Disorders and Stroke, NIH, Bethesda, MD
- 1996-99 Assistant Professor, Faculty of Medicine and Surgery, University of Pisa Medical School, Pisa (Italy)
- 1996-97 Senior Staff Fellow and Chief, Functional Brain Imaging Program; Cognitive Neuroscience Section, National Institute of Neurological Disorders and Stroke, NIH, Bethesda, MD (USA) with Full Senior Clinical Privileges at the NIH Clinical Center
- 1995-96 Adjunct professor, University of Pisa Medical School, Pisa (Italy)
- 1992-96 Senior Staff Fellow, Laboratory of Neurosciences, National Institute on Aging, NIH, Bethesda, MD (USA) with Full Senior Clinical Privileges at the NIH Clinical Center
- 1989-92 Visiting Fellow, Laboratory of Neurosciences, National Institute on Aging, NIH, Bethesda, MD (USA)
- 1987-89 Intern, Department of Nuclear Medicine, PET Center, Institute of Clinical Physiology, National Research Council, Pisa (Italy)
- 1986-89 Resident in Psychiatry, Department of Psychiatry, University of Pisa Medical School, Pisa (Italy)

## **Roles in Scientific Organizations and Commissions**

- 2018 Chair-Elect of the Local Organizing Committee, 25<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Rome (Italy), June 9-13, 2019
- 2016-18 Member of the Ministry Committee for the Scientific National Habilitation (Abilitazione Scientifica Nazionale - ASN) for the Settore Concorsuale: 05/E3 - BIOCHIMICA CLINICA E BIOLOGIA MOLECOLARE CLINICA
- 2014 President, XVI Annual Meeting of the Italian Association of Psychology (AIP) - Clinical and Dinamic Section. Pisa (Italy), Sept. 19-21
- 2013-18 Member of the Directive Council of the Italian Society of NeuroEthics
- 2013 Founding Member of the Italian Society of NeuroEthics
- 2012 President, XVI World Congress of the International Organization of Psychophysiology, Pisa (Italy)
- 2008 Chair, Scientific Program Committee, Organization for Human Brain Mapping
- 2007- 11 Chair-Elect, Scientific Program Committee, Organization for Human Brain Mapping
- 2006 Chair of the Local Organizing Committee, 12<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Florence (Italy), June 11-15, 2006
- 2006-10 Board Member of the Italian Society for Psychophysiology

## Post-graduate Clinical Training and Clinical Responsibilities

- 2012-15 Director, Clinical Psychology Branch, Azienda Ospedaliera Universitaria Pisana, University of Pisa Medical School, Pisa, Italy
- 2000-12 Director of the Laboratory of Specialized Clinical Biochemistry and Molecular Biology at the Azienda Ospedaliera Universitaria Pisana, University of Pisa Medical School, Pisa, Italy
- 1996-99 Medical Fellow, Cognitive Neuroscience Section, NINDS, NIH, Bethesda, MD (USA)
- 1989-96 Medical Fellow, Laboratory of Neurosciences, National Institute on Aging, NIH, Bethesda, MD (USA)

Clinical responsibilities include: admission and follow-up of patients with Alzheimer disease, frontal lobe dementia, vascular dementia, depression, Down syndrome, choreic disorders. Screening of patients and healthy controls for research protocols. Performance of clinical/research tests such as lumbar puncture, positron emission tomography scan and functional magnetic resonance imaging of the brain.

Clinical activities also include "ward administration" that requires supervision and coordination of other medical fellows, nurses and non-medical staff.

On-call services for the Aging Institute and the Neurological and Neurosurgery Departments; neurological consultation to other NIH clinics.

- 1986-89 Resident in Psychiatry, Dept. of Psychiatry, University of Pisa Medical School, Pisa (Italy)  
Clinical duties included: in-patient and out-patient care, emergency clinic, on-call service, consultation service, supervision and coordination of medical students and, from PGY-2, of junior residents.

## **University Teaching Experience**

Professor of Clinical Biochemistry and Molecular Biology at the University of Pisa Medical School, Pisa, Italy

Coordinator of the Laboratory Medicine Course for the Univ of Pisa Medical School students

President of the Biomedical Laboratory Technologies Course at the Univ. of Pisa Medical School

Professor of Clinical Biochemistry and Molecular Biology for Biomedical Engineer Course, Occupational Medicine Course, Biomedical Laboratory Technologies

Professor of Pharmacological Modulation of Cognitive Function at the Occupational Medicine Course

## **Languages**

English

Italian

French

German (scholastic knowledge)

## **Society Memberships**

- American Academy of Science, 1995-present.
- Society for Neuroscience (U.S.A.), 1991-present.
- Organization for Human Brain Mapping, 2000-present
- The Gerontological Society of America, 1992-2000.
- Società Italiana di Biochimica Clinica e Biologia Molecolare Clinica
- European Neuroscience Association, 1994-present.
- International Society for Neuroimaging in Psychiatry, 1993-present
- Società Italiana di Psichiatria, 1987-present.
- Società Italiana di Neuroscienze, 1988-present.
- Società Italiana di Neuropsicofarmacologia, 1992-present.
- Società Italiana di Psichiatria Biologica, 1992-present.
- Società Italiana di Psicofisiologia
- Società Italiana di NeuroEtica (Board of Directors)



## Research Awards and Honors

- 2019      **Honorary President for Science** of the **UNESCO Club** in Lucca (Italy) for scientific merits
- 2018      **Honorary President**, World Congress of the International Organization of Psychophysiology (I.O.P.), Lucca, Italy, Sept. 4-8, 2018
- 2017      Bestowed the **Bronze Medal in Public Health** by the Ministry of Health in Italy.
- 2016      Bestowed of **Honorary Citizenship** (Cittadinanza benemerita) by the City Hall of Fivizzano (Massa.Carrara, Italy) because of scientific merits and professional achievements
- 2015      Bestowed the grade of **Commander of the Order of Merit** of the Italian Republic (Commendatore al Merito della Repubblica) because of scientific merits
- Cover of the scientific journal ***Human Brain Mapping*** dedicated to publication n. 193 of the author: Handjaras G, Bernardi G, Benuzzi F, Nichelli PF, Pietrini P, Ricciardi E. A topographical organization for action representation in the human brain. **Hum Brain Mapp.** 2015 Oct;36(10):3832-44
- 2012      Fellow Travel Award (co-author on the selected paper), 18<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Beijing, China, 2012
- 2011      Fellow Travel Award (co-author on the selected paper), 17<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Quebec City, Canada, 2011
- 2010      Italian Society of Laboratory Medicine Award (SimeL) *alla memoria di Maria Bertilla Fietta*” (co-author on the selected paper)
- 2008      Fellow Travel Award (co-author on the selected paper), 14<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia, 2008
- 2009      Italian Chapter Award, International Society for Magnetic Resonance in Medicine (ISMRM)
- Fellow Travel Award (co-author on the selected paper), 15<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, USA, 2009

- 2005 Cover of *The American Journal of Psychiatry* dedicated to publication n. 109 of the author: Freo U, Ricciardi E, Pietrini P, Schapiro MB, Rapoport SI, Furey ML. Pharmacological modulation of prefrontal cortical activity during a working memory task in young and older humans: a PET study with physostigmine. **Am J Psychiatry**, 162:2061-70, 2005
- 2003 Fellow Travel Award (co-author on the selected paper), 9<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, June 18-22, 2003, New York, NY, USA
- 2002 Cover of *The American Journal of Psychiatry* dedicated to publication n. 101 of the author: Alexander GE, Chen K, Pietrini P, Rapoport SI, Reiman EM. Longitudinal Evaluation of cerebral metabolic decline in dementia: Implications for using resting PET to measure outcome in long-term treatment studies of Alzheimer's disease. **Am J Psychiatry**, 159: 738-745, 2002
- 2001 Cover of the scientific Journal *Science* dedicated to publication n. 99 of the author: Haxby JV, Gobbini MI, Furey ML, Ishai A, Schouten JL, Pietrini P. Distributed and overlapping representations of faces and objects in ventral temporal cortex. **Science**, 293: 2425-2431, 2001
- 2000 Fellow Travel Award (co-author on the selected paper), 5<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, June 12-16, 2000, San Antonio, Texas, USA
- Cover of *The American Journal of Psychiatry* dedicated to publication n. 85 of the author: Pietrini P, Guazzelli M, Basso G, Jaffe K, Grafman J. The neurometabolic bases of aggressive behavior assessed by positron emission tomography in humans. **Am J Psychiatry**, 157:1772-1781, 2000
- 1998 **Best Poster Award**, XI Meeting of the Italian Society of Neuropsychopharmacology, Trieste (Italy), June 10-13, 1998 (abstract # 205).
- 1997 **Janssen Award** for Research in Psychiatry.
- 1996 Award for best scientific presentation at the Annual Meeting of the Italian Society on Alcoholism (abstr. # 155)
- Cover of the scientific journal *Human Brain Mapping* dedicated to publication n. 54 of the author: Grady CL, Horwitz B, Pietrini P, Mentis MJ, Ungerleider LG, Haxby JV. The effect of task difficulty on cerebral blood flow during perceptual matching of faces. **Hum Brain Mapping**, 4: 227-239, 1996

- 1995 **Young Investigator Award** by the Italian Society for Neuropsychopharmacology
- 1994 Travel Fellowship, IV International Conference on Alzheimer Disease and Related Disorders, Minneapolis, MI, July 29 - Aug. 3, 1994
- 1993 **Young Investigator Award** by the Italian Society for Biological Psychiatry
- 1990 Italian Psychiatric Association Research award  
Ph.D. with Honor, Scuola Superiore Sant'Anna, Pisa
- 1989-93 Fogarthy Fellowship in neuroscience at The Laboratory of Neuroscience, National Institute on Aging, National Institutes of Health, Bethesda, MD (USA)
- 1987-90 Winner of the prestigious and only national Ph.D. fellowship competition (national sponsorship, 2 positions/year), Scuola Superiore, Pisa
- 1986 M.D. with Honors, Pisa University Medical School
- 1980-86 Winner of the prestigious and only Italian M.D. fellowship competition (national sponsorship, 2-3 positions/year), Scuola Superiore, Pisa

## Editorial Roles

Co-editor in chief of *Archives Italiennes de Biologie – A Journal of Neuroscience* (2003-on)

Editor for the Section “Normal and Pathological Human Brain Function” in *Brain Research Bulletin* (1999-2010).

Co-editor in chief of "*Problemi in Psichiatria*", an Italian Journal of Psychiatry

Associate Editor for *Minerva Psichiatrica*

Associate Editor for *Frontiers in Psychiatry*

Associate Editor for *Frontiers in Behavioral Neuroscience*

Associate editor for *Experimental Biology and Medicine* (2010-15)

Editorial Board Member for the following journals:

*Brain Research Bulletin*

*NeuroImage*

*Experimental Biology and Medicine*

*The Scientific World Journal – Psychiatry Section*

*Psichiatria e Psicoterapia Analitica*

*Agorà-Cardiologia e Metabolismo*

Regular reviewer for the following international scientific journals:

*Science*

*Nature*

*Nature Communications*

*Journal of Neuroscience*

*The American Journal of Psychiatry*

*Biological Psychiatry*

*Neurology*

*NeuroImage*

*Scientific Report*

*European Journal of Neuroscience*

*Cerebral Cortex*

*Human Brain Mapping*

*Cortex*

*Journal of Neurophysiology*

*Current Anthropology*

*Neuropsychologia*

*Current Alzheimer Research*

*Journal of Computer Assisted Tomography*

*The Journal of Neuropsychiatry and Clinical Neuroscience*  
*Journal of Neurology, Neurosurgery, and Psychiatry*  
*Journal of Nuclear Medicine*  
*The Journal of Headache and Pain*  
*Food Chemistry*

### **Grant reviewer**

Grant reviewer for the following international Organizations:

*Alzheimer's Association (U.S.A.)*  
*National Science Foundation (USA)*  
*John Templeton Foundation (USA)*  
*Virginia Center on Aging (U.S.A.)*  
*Swiss National Science Foundation, Switzerland*  
*European Economic Community (E.E.C)*  
*National Council for Scientific Research, Romania*  
*Russian Science Foundation, Russia*  
*Research Promotion Foundation, Cyprus*  
*Greek research programme COOPERATION 2011 (SYNERGASIA 2011)*  
*Agence Nationale de la Recherche (ANR) Francia*

## Main Research Grants and Fundings

Principal Investigator project "Meditare per crescere: effetti della meditazione trascendentale sul benessere psico-sociale e sulla qualità del sonno nell'adolescenza" - Research Call 2019-2021 by Fondazione Cassa di Risparmio di Lucca. Amount € 50.000

Principal Investigator project "*Social cognition in the blind brain*" – codice MIUR: 201755TKFE; CUP: D68D19001690001 - 2017 PRIN Italian Ministry of University and Research, Amount € 155.000

Principal Investigator project "*A multimodal approach to the structural and functional characterization of supramodality in the blind brain*"- 2015 PRIN Italian Ministry of University and Research (Protocol: 2015AR52F9\_002), Amount € 140,000

Principal Investigator project "*Mens sana in corpore sano: l'importanza dell'attività fisica cronica sulla salute fisica e mentale*", Research Call 2012-2013 by Fondazione Cassa di Risparmio di Lucca. Amount € 55.000

Principal Investigator project "*Clinical, psychometric and psychobiological comparative study of the efficacy of transcranial magnetic stimulation (TMS) and continue electrical stimulation in treatment resistant depressed patients*", Research Call by Fondazione Pisa, 2012. Amount € 300.000

Associate Investigator project "*Development and validation of novel methods for the in vivo assessment of distinct patterns of connectivity in the disorders of consciousness*". Progetti di Ricerca Giovani Ricercatori - Ricerca Finalizzata 2011-2012, Ministero della Salute (Codice progetto GR-2011-02347383). Amount € 360.088

Principal Investigator project "*Genetic and neural bases of psychomotor abilities and of specific training effects*", Fondazione Cassa di Risparmio di Lucca, 2011. Amount € 40.000

Associate Investigator project "*TRAIN THE BRAIN 2.0: experimental and clinical study on the efficacy of cognitive and physical training in dementia* ", Grant by Fondazione Cassa di Risparmio di Pisa, 2011, Amount € 2,000,000

Associate Investigator project "*The: The hand embodied*" (<http://www.thehandembodied.eu>). 7th Framework IST Program. Cognitive Systems and Robotics (ICT-2009.2.1), 2010. Total amount € 7.175.691

Associate Investigator project "*PSYCHE: Personalised monitoring SYstems for Care in mental HEalth*" (<http://www.psyche-project.org/>). 7th Framework IST Program. ICT-2007.5.1 Personal Health Systems for Monitoring and Point-of-Care diagnostics, 2010. Importo totale € 3.820.363

Principal Investigator Operative Unit PRIN (MIUR) 2009 entitled "*Brain correlates of supramodal representation of actions in sighted and congenitally blind individuals studied by functional magnetic resonance imaging (fMRI)*". Amount € 63,000

Principal investigator on a research grant by the Italian Ministry of Health: *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*, 2007 (Amount: € 290,000)

Principal investigator on a research grant by the Italian Ministry of Education, University and Research (MIUR) – PRIN Program: *Memoria e rappresentazioni mentali nel deficit sensoriale visivo: Effetti di modularità e di sovramodalità*, 2006 (Amount: € 57,000).

Unit Coordinator on the European Community Grant *Immersione*, IST-2006-027141, Call FP6-2004-IST-4-FET (Presence), Commission funding 5,500,000 euro.

Principal investigator on a research grant by the Fondazione Cassa di Risparmio di Pisa (Italy): e-SMILER: experimental brain Study on eMotional Interaction Leading to Enhanced Robots. Amount: € 65,000.

Principal investigator on a research grant by the Italian Ministry of Education, University and Research (MIUR) – PRIN Program: "*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)*", 2004. (Amount: € 42,500)

Principal co-investigator on a research grant by the Fondazione Gio.I.A., Pisa (Italy): "*In vivo study of brain and genetic correlates of maternal behavior in humans. II year of study*". 2004. (Amount: € 65,000)

Principal co-investigator on a research grant by the Fondazione Gio.I.A., Pisa (Italy): "*In vivo study of brain and genetic correlates of maternal behavior in humans*". 2003. (Amount: € 55,000)

Principal co-investigator on a research grant by the Fondazione Cassa di Risparmio di Lucca (Italy): "*Neuropsychological and in vivo brain correlates of decision-making process in humans*", 2002. (€ 25,000)

Principal co-investigator on a research grant by the Fondazione Cassa di Risparmio di Pisa (Italy): "*Nuove generazioni di framework per la realizzazione di siti web con alto grado di accessibilità e usabilità per servizi di massa. Psicobiologia dell'utente e prototipazione*." (€ 46,760)

Principal investigator on a research grant by the Italian Ministry of Education, University and Research (MIUR) – FIRB Neuroscience Program: "*Methodologies for the functional exploration of the brain in the study of cortical function in humans*" RBNE018ET9\_003, 2002 (starting January 2003). (Amount: € 86,000)

Associate Investigator on a research grant by the 5<sup>th</sup> Framework IST Program of the European Union: “*Touch-hapsys: brain correlates of human haptic perception*” (<http://www.touch-hapsys.org>). IST-2002-6.1.1, 2002. (total amount of the grant: € 2,794,996)

Principal investigator on a research grant by the IRIS Foundation, Livorno (Italy): “*In vivo study of brain correlates of emotional processing during healthy aging in humans*”, 2002. (Amount: € 13,000)

Principal Investigator on a research Grant by the John Templeton Foundation-Campaign for Forgiveness Research (#5103): “*Study of the brain functional correlates of forgiveness and unforgiveness in humans by using Positron Emission Tomography (PET) in conjunction with neuropsychological probes*”, 2002. (Amount: US\$ 125,000)

Principal Investigator on a research grant by the Italian Health Minister program: “*Correlation between neurometabolic pattern and cognitive performance in young and older Down subjects*”, 2000. (amount: € 89,000)

Principal Co-Investigator on a research grant by the Italian Health Minister program: “*Effects of Cholinergic Modulation on Human Memory and Attention: Functional Brain Studies in Healthy Aging and in Patients with Alzheimer’s Disease*”, 2000. (Amount: € 100,000)

Principal co-investigator on a research grant by MURST (Minister of University and Scientific and Technological Research): “*Multidisciplinary study of reversible dementias: clinical, polysomnographic, neurometabolic, psychological and cardiological evaluation of the sleep apnea syndrome*”, 2000. (Amount: € 67,139)

Principal co-investigator on a research grant by MURST: “*Clinical, biochemical, molecular biology and functional imaging studies of patients with Alzheimer’s disease and atypical dementias*”, 1999.

Principal co-investigator on a research grant by MURST: “*Determination of the cerebral metabolic glucose consumption and sleep patterns in Alzheimer patients, Down subjects and in their healthy relatives*”, 1998.

Principal Investigator on NIA/NIH intramural research program protocols 87-AG-0162; 89-AG-007090-AG-0196; 93-AG-0139.

Medical responsible investigator on NIA/NIH intramural protocols 94-AG-0194; 94-AG-205.

Associate investigator on NIA/NIH intramural protocols 94-AG-0089; 94-AG-0094; 96-AG-0056; 88-N-0033; 93-N-0060; 93-N-0077.

Additional research grants from National Institutions including the Italian National Research Council (CNR), the MURST (Minister of University and Scientific and Technological Research), the Italian Sleep Medicine Association, the Italian Psychiatric Association, the Italian Society of Biological Psychiatry.



## Main Invited Lectures and Symposia (years 2001-19)

2019 "*Cosa sappiamo delle basi genetiche e neurobiologiche dell'intelligenza umana e dei suoi usi*". Conferenza al Festival della Scienza Medica. Intelligenza della Salute. Bologna, May 11th, 2019

"*Neurobiologia della leadership*". Opening Lecture at the Meeting "Organizzazioni settarie e manipolazione mentale". Brain Research Foundation, Lucca, April 13th, 2019

"Il cervello e il suo universo". Lecture at the Meeting "La complessità dei sistemi linguistici", University of Pisa, March 25th, 2019

"Neuroscienze e diritto: quale rapporto?" Lecture at the Meeting Neuroetica e Diritto Penale, Collegio Superiore Bologna, March 13th, 2019

"*Towards a neurobiology of freedom?*" Lecture at the Meeting "Neuroscience and law: implications and perspectives", University of Parma, Feb. 16th, 2019

"*Noi e il nostro cervello*". Conference at the Rotary Club, La Spezia, Italy, Jan. 31st, 2019

## 2018

"*Emozioni e sentimenti: come il cervello anima la nostra esistenza e resilienza*". VIII Convegno Hospice Salutis Domus. Pisa, Dec. 1st, 2018

"*Can neuroscience fill the gap between Psychiatry and Medicine?*" Lecture at the International Meeting Latest Advancements in Psychopharmacology and Psychiatry, Brain Research Foundation, Lucca, Italy, Nov. 19, 2018

"*Il cervello morale: la vita di relazione tra geni, ambiente e neuroni*". Convegno Neuroscienze, Psichiatria e Spiritualità. IRCCS - Centro San Giovanni di Dio - Fatebenefratelli. Brescia, Oct. 30, 2018

"*Is Neuroscience relevant for Psychiatry? Yes, but...*". International Meeting New paradigms for mental disorders: Neurodevelopmental, neuroprogressive and neurodegenerative perspectives. Oct. 23-25, 2018

"*La depressione: geni, neuroni e ambiente*". Lecture al Convegno Depressione: Malattia della mente, del corpo, delle età. Ameglia (SP), 4-5 ottobre 2018

"*Le reti neurali*". Key-lecture al Workshop Pensare per Reti in Sanità. Regione Toscana, Firenze, Sept. 24, 2018

"*Possono le neuroscienze rendere la Psichiatria una disciplina medica?*" Lecture at the Scuola Superiore della Magistratura, Scandicci, 13 settembre 2018

"*Verso una neurobiologia della libertà?*" Convegno Le scelte umane tra libertà e condizionamenti, Fondazione Brain Research Onlus, Lucca, 19 maggio 2018

"*A mia insaputa: il comportamento umano tra natura e ambiente*". Convegno Questioni di Coscienza. Società Italiana di Neuroetica e Università di Milano, 15 maggio 2018

"*Le Neuroscienze possono cambiare il Diritto?*" Convegno Neuroscienze e Società. Le domande della Neuroetica, Società Italiana di Neuroetica, Milano 15 maggio 2018

"*Le basi psicopatologiche della violenza contro le donne*". Conferenza al Festival della Scienza Medica. Il Tempo della Cura. Bologna, 6 maggio 2018

"*La libertà dell'umano agire tra geni, ambiente e cervello*". Conferenza al Festival di Scienza e Filosofia, Foligno (Pg), 29 aprile 2018

"*Human Behavior: Genes, Brain and Environment*". Lecture at the 14th International Training Seminar in Child & Adolescent Psychiatry Research, Bertinoro, Italy, 16 aprile 2018

"*Verso una neurobiologia della libertà?*" Conferenza alla Scuola di Specializzazione in Psichiatria, Università di Firenze, 13 marzo 2018

"*Le Neurotecnologie in Psichiatria forense*". Conferenza all'Accademia Medica di Roma, Roma, 15 febbraio 2018

## 2017

"*Brain, Imaging and Imagination: How the brain represents the world*". Key-note at the International and Interdisciplinary Congress *Immagini?* Bressanone (Bz), 27-28 novembre 2017

"*Neuroscienze Forensi*". III Convegno Nazionale di Psicologia Giuridica, Milano, 17-19 novembre 2017

"*Esiste una neurobiologia della libertà?*" Lettura magistrale al Convegno Nazionale Società Filosofica Italiana, Campus Scuola IMT Lucca, 9-11 novembre 2017

"*Le nuove metodologie per lo studio delle funzioni cerebrali*". Presentazione al 49esimo Congresso Nazionale Società Italiana di Biochimica Clinica e Biologia Molecolare Clinica - Medicina di Laboratorio, Firenze, 16-18 ottobre 2017

"*Le potenzialità della mente: come nasce un'idea di successo*". Presentazione al Convegno Internazionale Le Vie dell'Innovazione. Complesso San Francesco, Lucca, 13 ottobre 2017

"*Free Will between Genes and Environment: Implications for forensic psychiatry*". XVII World Congress of Psychiatry, Berlin 8-12 Ottobre 2017

"*Genes, Brain and Behavior: Implications for forensic psychiatry*". Lettura al Convegno Neuroscienze e Diritto: Implicazioni e Prospettive, Università di Parma, 5-7 ottobre 2017

"*Freedom: from Philosophy to Neuroscience*" Lettura magistrale al National Congress of the Italian Neuroscience Society, Ischia, 1-4 ottobre 2017

*"Farmaci: Cancellazione selettiva della memoria, potenziamento cognitivo e potenziamento dell'umore"*. Corso Medicina, Diritto e Nuove Tecnologie, Scuola Superiore Sant'Anna, Pisa, 28 settembre 2017

*"Neurobiology of antisocial behavior: Is there a functional frontal fragility syndrome?"* Presentazione al XXXV International Congress of the International Association of Law and Mental Health, Praga, 9-14 luglio 2017

*"Le nuove frontiere dell'investigazione scientifica: neuroscienze, imputabilità e prova dichiarativa"*. Scuola Superiore della Magistratura, Scandicci, 29 giugno 2017

*"Il contributo delle neuroscienze alla diagnosi in psichiatria"*. Convegno Nazionale Responsabilità Professionale e Danno alla Persona in Psichiatria, Milano, 11-13 maggio 2017

*"Il ritorno di Lombroso? Genetica e neuroscienze dei comportamenti antisociali"*. Conferenza al Festival della Scienza Medica, Bologna, 22 aprile 2017

*"Genes, Brain and Behavior"*. Intervento alla Conferenza Internazionale Reading the Deceptive Brain and Mind, IMT School Campus, Lucca, 17 marzo 2017

*"Farmaci: Cancellazione selettiva della memoria, potenziamento cognitivo e potenziamento dell'umore"*. Settimana Mondiale del Cervello, Lucca, 16 marzo 2017

*"Possiamo diventare supereroi? Potenziare le capacità cerebrali tra miti e realtà"*. Settimana Mondiale del Cervello, Lucca, 14 marzo 2017

*"Studiare nell'era digitale. Come Internet cambia il nostro cervello"*. Settimana Mondiale del Cervello, Lucca, 13 marzo 2017

*"Viaggio nel cervello alla ricerca della mente: dalle molecole al pensiero"*. Convegno "Dall'Anima alla Mente" - San Miniato, 10-11 marzo 2017

## 2016

*"Il comportamento umano tra geni e cervello: implicazioni nella giurisprudenza"*. Lettura al Convegno Diritto fatto in laboratorio? Scienze del cervello, giurisprudenza, legislazione. Università degli Studi di Milano, 6 dicembre 2016

*"Brain and behavior: Toward a functional frontal fragility syndrome?"* Conferenza presso The MIND Research Network, Albuquerque, NM, (USA), 17 Novembre 2016

*"Dono e perdono: una prospettiva neurosociale"*. Presentazione al Convegno Donare allo Stato: mecenatismo privato e raccolte pubbliche dall'Unità a d oggi. Cappella Guinigi, Campus Scuola IMT Lucca, 10 novembre 2016

"Free will: From genes to the brain". Presentazione a Brains in Actions. XXIV Congresso Nazionale Società Italiana di Psicofisiologia – Università Cattolica Milano, 27-29 Ottobre 2016

"Disturbo antisociale: influenze genetiche e ambientali". Progetto formativo Recenti Acquisizioni Teoriche e Cliniche in Salute Mentale- ASL 5 Spezzino, La Spezia, 16 ottobre 2016

"La mente criminale: implicazioni giuridiche e sociali". BRIGHT, la Notte dei Ricercatori in Toscana, Scuola IMT Lucca, 30 settembre 2016

"I geni della cattiveria". Intervento a Trieste Next - Salone Europeo della Ricerca Scientifica, Trieste, 25-27 settembre 2015

"Free will: From genes to the brain". Presentazione alla Fresco Conference. 4th International Workshop on Synaptic Plasticity: from bench to bedside. Lucca, 12-14 settembre 2016

"Understanding the neural roots of human behavior". Presentazione all'18th World Congress of the International Organization of Psychophysiology (IOP), Habana (Cuba), 31 agosto-4 settembre 2016

"Omics and functional imaging in understanding human behavior". Presentazione al Congresso Internazionale IALM 2016 - P5 Medicine and Justice, Venice, 21-24 giugno 2016

"Consciousness, control, responsibility" Lettura al III Congresso Nazionale della Società Italiana di NeuroEtica, Padova, 18-20 maggio 2016

"Il libero arbitrio da Platone alle neuroscienze". Presentazione al Convegno Libertà personale, cura e responsabilità professionale dello psichiatra - Scuola IMT Lucca, 4 Maggio 2016

"Criminali si nasce o si diventa?" Conferenza nelle Lezioni sul Progresso - Fondazione Telecom, Teatro San Babila, 4 aprile 2016

"Criminali si nasce o si diventa?" Conferenza Museo della Scienza, Roma, 16 marzo 2016

## 2015

"Le neuroscienze del comportamento antisociale", Convegno organizzato dal Tribunale di Vallo della Lucania, 28 novembre 2015

"The Blind Brain: how (lack of) vision shapes the development of the morphological and functional architecture of the human brain". Congresso Nazionale della Società Italiana di Psicofisiologia, Complesso Scuola IMT Lucca, 19, 21 novembre 2015

"Riconciliarsi con il destino: il dono della serenità dell'animo". Corso di perfezionamento in Cure Palliative, Azienda Ospedaliero Universitaria Pisana, Pisa, 23 ottobre 2015

*"Possiamo fotografare la psiche? Viaggio nel cervello alla ricerca della mente"*  
V Clinical Challenge in Rheumatology. Pisa, 22-24 ottobre 2015

*"Geni e ambiente precoce nello sviluppo antisociale dell'adulto"*. Palazzo del Bo, Università di Padova, 9 ottobre 2015

*"I geni della cattiveria"*. Intervento a *Trieste Next* - Salone Europeo della Ricerca Scientifica, Trieste, 25-27 settembre 2015.

*"La neurobiologia della Cattiveria"*. Conference at Rotary Club Pisa, San Giuliano, Sept. 23, 2015

*"It's not all in your car: the morphological and functional brain architecture of professional Formula One car racers"*. Lecture at the 2015 World Congress: The Eye, The Brain & The Auto, Dearborn, Michigan, 9-11 settembre 2015

*"Bad or Mad? Novel Insights into Antisocial Behaviour from Genetics and Neuroscience"*. 34th International Congress of the International Association on Law and Mental Health, Sigmund Freud University Vienna, Austria, 12-17 luglio 2015

*"The Anatomy of Human Mind"*. International Meeting on History of Medicine and Pathology, Padova, 4-6 giugno, 2015

*"Neuroscienze e Genetica Forense"*. Tavola Rotonda Attualità delle Neuroscienze Forensi, Accademia Nazionale dei Lincei, Roma, 5 giugno, 2015

*"La musica del cervello"*. Presentation at Lucca Classica Music Festival, Lucca, 8-10 maggio, 2015

*"Tra emozione e ragione: la neurobiologia dei processi decisionali"*. Presentazione alla Scuola della Magistratura, Scandicci, 30 marzo 2015

*"Coscienza e deprivazione visiva: nuova luce dall'oscurità"*. Convegno Coscienza, Sala Regia Comune di Viterbo – Piazza del Plebiscito, 20 marzo 2015

*"Bad or Mad: il comportamento umano tra geni e cervello"*. Convegno Scuola Superiore Sant'Anna, Pisa, 17 marzo 2015

## 2014

*"Genes, brain and (anti)-social behavior: where do we stand?"*. Inaugural Presidential Symposium at the International Congress of the German Association for Psychiatry, Psychotherapy and Psychosomatics (DGPPN), Berlin, November 25-27, 2014

*"Riconciliarsi con il Destino: il dono della Serenità dell'Animo"*. Convegno Hospice Salutis Domus – 4° Edizione, - Il Tempo della Cura, Pisa, 15 novembre, 2014

*"Il futuro della Medicina fra molecole e cellule"*. Incontro al Future Forum, Udine, 3 novembre 2014

*“Neurobiologia del comportamento antisociale: implicazioni in ambito forense”*. Convegno internazionale interdisciplinare Prova scientifica, ragionamento probatorio e decisione giudiziale, Università Cattolica del Sacro Cuore, Milano, 10-11 ottobre, 2014

Relatore al Convegno “La gestione della crisi d’impresa nel settore della distribuzione del farmaco: strategie e strumenti di risanamento”, Pisa, 9 ottobre, 2014

*“Meditazione Trascendentale: la coscienza nell’arte e nell’economia”*  
Intervento a Conferenza, Lucca Film Festival 10<sup>th</sup> Edition, Lucca, 28 settembre – 3 ottobre, 2014

*“La famiglia e l’individuo di fronte alla crisi economica”*. Convegno “la Relazione tra Famiglia e Lavoro” – il momento presente – casi e materiali, Camera di Commercio di Pisa, 20 giugno, 2014

*“La plasticità cerebrale tra geni e ambiente”*. International Workshop – L’acquisizione delle lingue straniere nell’adulto, Università di Pisa – Centro Linguistico, Pisa, 22 maggio, 2014

*“Neuroscience, Genetics and Law”*. Convegno Scientifico Internazionale di Neuroetica e I Congresso della Società Italiana di Neuroetica - Uno sguardo da quale mente? La prospettiva neuroetica – Incontri su Neuroscienze e Società, VI Edizione, Padova, 14-16 maggio, 2014

*“Salute e Malattia attraverso il cibo. Vivere da malati per morire sani?”*. Convegno Nella salute e nella malattia: diritto alla salute e regole della produzione di alimenti sicuri, Pisa, 11-12 Aprile, 2014

*“Psicobiologia delle decisioni morali”*. Convegno Neuroetica – Neurobiologia dell’Etica ed Etica delle Neuroscienze, Università degli Studi della Tuscia, Viterbo, 21 marzo, 2014

*“Il nostro percorso di vita è scritto nei geni?”* – Viaggio nella vita: regole e non regole del cambiamento- Infinitamente – Festival di Scienze e Arti a Verona, Verona, 10-16 marzo, 2014

*“Uxoricidio, il fenomeno della violenza nella coppia”*. Relatore Convegno Salute di genere - un approccio trasversale, Unità Sanitaria Locale di Modena, Modena, 14 marzo, 2014

*“Il Cervello Morale: le scelte decisionali tra ragione e emozione”*. 3° Convegno di Neuroscienze, Neuropsicologia e Psicoterapia, Navacchio (PI), 1-2 marzo, 2014

*“Crisi finanziaria e sociale: l’approccio psicologico”*. Convegno Strumenti per affrontare la crisi d’impresa, Camera di Commercio di Pisa, 19 febbraio, 2014

## 2013

"*The Social Brain: Novel insights from neuroscience and genetics*". International Meeting Investigating the Relationship between Future Technologies, Self and Society, Scuola Superiore Sant'Anna, Pisa, 28-29 novembre, 2013

"*Il Cervello tra stress e meditazione*". Convegno "Gestione dello Stress: meditazione, mindfulness, sviluppo dell'intelligenza emotiva nel sistema sanitario e universitario italiano. Esperienze e testimonianze"- AUSL 5, Pisa, 11-12 ottobre, 2013

"*I processi decisionali tra emozione e ragione*". Seminario a Convegno Associazione Ricerca Neurologica Le Neuroscienze e L'Economia, Marina di Pietrasanta (LU), 29 Giugno 2013

"*Il cervello sociale*". Convegno "Lo spazio pubblico - sui presupposti di un nuovo umanesimo". Seminari di studio in memoria di Vanna Gessa Kurotshka, Università degli Studi di Cagliari, 24 giugno, 2013

"*Le nuove frontiere nella comprensione della mente: dal pensiero al neurone*". Lettura in Sessione Plenaria al Corso di aggiornamento La Psichiatria di fronte alle nuove scienze mediche, Bornio, 5-8 aprile, 2013

"*Ambiente, cervello, cuore e psiche: dalle molecole al comportamento*". 4° Congresso Cardio-IFC, Centro Nazionale Ricerca, Pisa, 26-28 Marzo, 2013

"*Molecole di mente: viaggio nel cervello alla ricerca del pensiero*". II Convegno di Neuroscienze, Neuropsicologia e Psicoterapia, Navacchio (PI), 2-3 marzo, 2013

## 2012

"*Bad or Mad – il comportamento umano tra geni e cervello*". Seminario all'Università "Magna Grecia" di Catanzaro, 11 ottobre, 2012

"*The Blind Brain*". International Meeting Semantic Representations in the Blind, Pisa, Oct. 5-6, 2012

"*Beyond motor scheme: supramodal representation of actions in the human brain*", 2<sup>nd</sup> International Workshop on Synaptic Plasticity – From Bench to Bed Side, Taormina, 29 settembre - 1 ottobre, 2012

"*Semantic representation in the language of the blind: linguistic and neurocognitive studies*". Symposium Chair 16<sup>th</sup> World Congress of the International Organization of Psychophysiology, Pisa, 13-17 settembre, 2012

"*La mente Criminale*". Convegno Incontri di Scienza & Filosofia – XIII edizione, 31 maggio, 2012

"*Il contributo delle neuroscienze alla conoscenza del comportamento violento*". XV Congresso Nazionale Società Italiana di Psichiatria Forense, Alghero, 25-27 maggio, 2012

*"Il libero arbitrio tra geni e cervello: implicazioni per il concetto di imputabilità"* - Lettura Magistrale al Convegno Diritto Penale e Neuroetica, Università di Foggia, 21-22 maggio, 2012

*"La Mente Criminale"* - Conferenza a Incontri di Scienza e Filosofia, XIII edizione, Università Politecnica delle Marche, Ancona, 17 maggio, 2012

*"Le Neuroscienze tra spiegazione della vita e cura della mente"*. Incontri su Neuroscienze e società IV Edizione, Università degli studi di Padova, 9-11 maggio, 2012

*"Il comportamento umano tra geni e cervello: implicazioni per l'etica e la giurisprudenza"* - Corso di aggiornamento Neuroetica: neuroscienze e persona, Sala Regia Comune di Viterbo, 3 marzo, 2012

## 2011

*"Il libero arbitrio tra geni e neuroni"* - Convegno Neuroetica e Tribunali, Profili di responsabilità morale, giuridica e sociale nella prospettiva delle neuroscienze, Centro Nazionale delle Ricerche, Roma, 15 dicembre, 2011

*"Nel Cervello, tra l'emozione della musica e la trepidazione del musicista"* al Convegno Internazionale di studi Musica e Neuroscienze, Conservatorio Santa Cecilia, Roma, 5-6- dicembre, 2011

*"Dalle emozioni alla Psicopatologia: basi neurobiologiche"* – Shape the Knowledge – Campus di formazione residenziale, Rapallo, 28 novembre -2 dicembre, 2011

*"I trattamenti integrati"* Corso Società Italiana di Neuropsicofarmacologia – Nuove frontiere nel trattamento della depressione, Gaeta, 22 novembre, 2011

*"Il libero arbitrio tra geni e neuroni"*. Lecture at Sul Libero Arbitrio - Simposio per il 201° anniversario del Decreto di fondazione della Scuola Normale Superiore, Pisa, 18 ottobre, 2011

*"Genetic and brain correlates of human behavior and aggression"* - Simposio "Structural and functional neuroimaging in violent offenders", 10th World Congress of Biological Psychiatry, Praga, 29 maggio–2 giugno, 2011

*"Neuroscienze e perizia psichiatrica: vantaggi e limiti"*. XIV Congresso Nazionale Psichiatria Forense – "La psichiatria basata sull'evidenza: aspetti clinici e forensi", Alghero, 29 maggio, 2011

*"La perizia psichiatrica alla luce delle recenti acquisizioni scientifiche"* - Convegno Scientifico Neuroetica - Le Neuroscienze incontrano le altre discipline. Università di Padova, 4-6 maggio, 2011



*"Il cervello sociale: dalla neurobiologia alla clinica"* - Corso di Aggiornamento Disturbi Affettivi in un Mondo in Rapido Cambiamento - Bormio, 1-4 aprile, 2011

*"So quel che pensi: dai neuroni specchio alla decodifica delle rappresentazioni neurali degli stati mentali nell'uomo"* - Corso di Aggiornamento Bisogni Emergenti in Psichiatria, Bormio, 1-4 aprile, 2011

## 2010

*"Non ho visto eppure so, ovvero, come il cervello forma la consapevolezza di un mondo che non ha mai visto"* - Lucca, 10 dicembre, 2010

*"New light on brain function from the darkness of blindness"* - Wayne State University, Detroit, MI, USA, 22 ottobre, 2010

*"Neuroimaging nella psicofarmacologia dei disturbi cognitivi"* - XVII Congresso Nazionale della Società Italiana di NeuroPsicoFarmacologia – Dall'epigenetica alle basi di neurobiologia sperimentale e clinica, Cagliari, 24 settembre, 2010

*"La vulnerabilità genetica e il comportamento criminale"* – Convegno “Le Neuroscienze entrano nel processo penale”, Treviso, 24 aprile 2010

## 2009

*"Working memory"*. Lecture at 3° Convegno Scientifico Neuroscienze e Psicologia del Lavoro, Istituto Medico Legale, Roma, 16-18 giugno, 2009

## 2008

*"Blindness and consciousness: new light from the dark"*. Invited lecture, Dept. of Psychology, Ben Gurion University of the Negev, Beer-Sheva, Israel, Nov. 2, 2008

*"New light on brain function from the darkness of blindness"*. Invited Keynote Lecture at the 14th World Congress of Psychophysiology - the Olympics of the Brain - IOP2008, St. Petersburg, Russia, Sept. 2008

*"Il Ruolo degli Studi Morfologici e Funzionali di Risonanza Magnetica nei Quadri di Alterazione Cognitiva"*. Invited Plenary Session Lecture at the 16<sup>th</sup> National Congress of The Italian Society for Neuropsychopharmacology, Milan, June 24-26, 2008

*"Lo Studio in vivo delle basi cerebrali delle attività mentali nell'uomo"*. Invited presentation at Giornate Pisane di Psichiatria e Psicologia Clinica, Pisa, Italy, 9-10 maggio 2008

*"Brain mechanisms in the processing and control of emotions"*. Invited symposium presentation at the 12<sup>th</sup> Annual Meeting of the Society for Psychopathology, Rome, Feb. 20, 2008

- 2007 “*Androgeni, cervello e vita emotiva*”. Plenary lecture at the National Meeting of the Italian Society of Andrology, Ancona, Italy, Nov. 8, 2007
- “*Lo studio in vivo delle basi cerebrali della modulazione del sistema colinergico nell’invecchiamento normale e patologico*”. National Meeting of the Italian Dementia Group, Trieste, Italy, Oct. 23, 2007
- “*MolecolarMente: le nuove metodologie per lo studio in vivo dei correlati metabolici delle funzioni cerebrali*”. Invited presentation at the Congress for the Twenty Years of Neuroradiology at the San Raffaele University, Milan, Oct. 20, 2007
- “*Neurobiology of Mood and Emotion*”. Lecture at the Workshop on Mood Disorders, Florence, Italy, Oct. 12, 2007
- “*Neurobiology of depression: The Mind talks to the body*”. Didactic Conference at the Annual Meeting of the Italian Neurological Association, Florence, Italy, Oct. 14, 2007
- “*Functional brain response to pharmacological modulation of cholinergic system during physiological and pathological aging in humans*”. Workshop on Advances in Early Diagnosis and Care for Alzheimer’s Disease, University of Plymouth, U.K., July 24, 2007
- “*Perception of the environment in the congenitally blind: new insights on the functional organization of phenomenic consciousness in the human brain*”. Plenary lecture at the Neuroscience Seminar on Body Consciousness: Brain Mechanisms of Representation of Self and Others, Fundacion Duques de Soria, Soria, Spain, July 9 -13, 2007
- “*Cholinergic modulation of prefrontal cortical activity during a working memory task in young and older humans*”. Symposium presentation at the XIII Annual Meeting of the Organization for Human Brain Mapping, Chicago, USA, June 10 – 14, 2007
- “*Seeing in the Absence of Sight: Cerebral Mechanisms Underlying Perception*”. Invited Conference at the Berlin Branderburgische Akademie der Wissenschaften, Berlin, Germany, March 15, 2007
- 2006 “*The aging brain: functional correlates of cholinergic enhancement on neural activity at different ages in humans*”. Invited Keynote Lecture at the 17th ISBET Meeting, Chieti (Italy), Sept. 27-30, 2006
- “*MolecolarMente: le nuove metodologie per lo studio in vivo delle funzioni cerebrali*”. Symposium on New Frontiers in Clinical Biochemistry, 3<sup>rd</sup> Regional Congress of the Italian Society for Clinical Biochemistry and Molecular Biology, Palermo, Italy, October 4-6, 2006
- “*The cerebral correlates of emotion and behavior assessed by functional brain imaging in humans*”. Lecture at the 13<sup>th</sup> World Congress of the International Organization for Psychophysiology (IOP) – United Nations, Istanbul, August 26- Sept. 3, 2006

“*The in vivo study of normal and pathological emotions in humans*”. Lecture at the 4<sup>th</sup> Summer School of Neuroscience, Catania, Italy, July 22-28, 2006

“*Brain molecular basis of physiological and pathological emotion and fear*”. Plenary lecture at the International Meeting on *The Fear of the Other*, Pisa, June 16-17, 2006.

“*The in vivo study of the neurometabolic bases of psycho-pathology*”. Plenary Lecture at the XV Congress of the Italian Society for Neuropsychopharmacology, Genova, Italy, June 6-9, 2006

“*Beyond sensory images: how the brain perceives the external world*”. Lecture at the ITAB -Institute of Advanced Biomedical Technologies "G. d'Annunzio" University Foundation, Chieti, Italy, April 5, 2006

2005 “*The functional exploration of the brain in the study of emotion and behavior*”. International fMRI Meeting and Autumn School, Sorrento, Italy, Nov. 18-20, 2005

“*From Molecules to Thought: neurometabolic basis of mental activity in humans*”. Lecture at the World Day on Alzheimer. Pisa (Italy), Sept. 17, 2005

“*Functional Brain Imaging Methodologies in the Study of Pharmacological Modulation of Brain Function*”. Lecture at the American Psychological Association Course at Harvard Massachusset General Hospital, Boston, June 21, 2005.

“*Functional Brain Imaging Methodologies in the Study of Emotion and Behavior in Humans*”. Lecture at the American Psychological Association Course at Harvard Massachusset General Hospital, Boston, June 20, 2005.

“*fMRI of Emotion, Cognition and Personality Disorders*”. Educational Course at the 13<sup>th</sup> Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Miami Beach, May 7-13, 2005

“*Emotion and Feelings: How the Brain colors our Life*”. Lecture at the Scuola di Alti Studi, IMT, Lucca (Italy), March, 15, 2005.

“*Toward an in vivo biochemistry of the mind and..soul?*” Plenary lecture at the Joint-Annual Meeting of the Swiss Society of Biological Psychiatry and the Swiss Society of Neuroscience, Zurich (Switzerland), Feb 17-18, 2005

2004 “*Visual processing in the ventral stream*”. Lecture at the IV International fMRI Meeting and Autumn School, Sorrento (Na, Italy), Nov. 12-14, 2004

“*Functional magnetic resonance imaging in the study of emotions and behavior*”. Lecture at the IV International fMRI Meeting and Autumn School, Sorrento (Na, Italy), Nov. 12-14, 2004

“*Functional Brain Studies of Emotional and Spiritual Behavior in Humans: Toward a Biochemistry of the Soul?*” Lecture at the International Congress of the World Psychiatric Association, Florence, Nov. 11, 2004

*“Brain Functional Correlates of Normal and Pathological Emotions and Behavior in Humans”*. Plenary Lecture at the International meeting Temperament and Manic-Depressive Illness – A Bridge between Psychology and Psychiatry, Pisa, Nov 8-9, 2004

*“In vivo Functional Exploration of the Neurometabolic Bases of Mental Activities in Humans”*. Special Didactic Lecture at the 12th World Congress of Psychophysiology, - The Olympics of the Brain - of the International Organization of Psychophysiology (I.O.P.) associated with the United Nations (New York), September 18- 23, 2004, Thessaloniki, Chalkidiki, Porto Carras, Greece.

*“How the Brain Responds to Hurtful Events: Neural Activity Elicited by Aggressive versus Forgiving Behavior in Humans”*. Invited symposium at the 12th World Congress of Psychophysiology - The Olympics of the Brain - of the International Organization of Psychophysiology (I.O.P.) associated with the United Nations September 18- 23, 2004, Thessaloniki, Chalkidiki, Porto Carras, Greece.

2003 *“In vivo study of brain correlates of forgiveness and unforgiveness in humans”*. Invited talk at the Conference on "Scientific Findings about Forgiveness," Atlanta, GA, October 24-25, 2003

*“Functional brain imaging methodologies in the study of emotion and behavior in humans”*. Lecture at the 3<sup>rd</sup> International fMRI Meeting and Autumn School, Sorrento (Naples, Italy), October 31-Nov.2, 2003.

*“Functional brain imaging methodologies in the study of the effects of the pharmacological modulation of brain function in humans”*. Lecture at the 3<sup>rd</sup> International fMRI Meeting and Autumn School, Sorrento (Naples, Italy), October 31-Nov.2, 2003.

*“Understanding brain correlates of normal and pathological emotions in humans”*. Symposium at the National Congress of the Italian Psychiatric Association, Bologna (Italy), October 2003.

*“Functional exploration of the brain and genetic assessment as an integrated approach to investigate the cerebral basis of emotion and behavior in humans”*. Symposium at the National Congress of the Italian Society for Neuroscience, Pisa, September 26-28, 2003.

*“Supramodal organization of the ventral visual cortex in the human brain assessed by functional magnetic resonance imaging (fMRI)”*. Symposium at the XIII Congress of the European Society for Cognitive Psychology, Granada (Spain), September 17-20, 2003.

*“Understanding the neural mechanisms of cholinergic function during physiological and pathological aging in the human brain: relevance to the early diagnosis and treatment of dementia”*. Plenary lecture at the II National Meeting of the Italian Group on Dementia, Trieste (Italy), March 20-22, 2003.

*“Molecular and neuronal mechanisms of pharmacologic modulation of brain function in humans: PET and fMRI studies of cholinergic enhancement”*. Symposium at the VIII National Congress of the Italian Society for Psychopathology, Rome, Feb. 25 – March 1, 2003

*“PET methodologies in the in vivo study of organ metabolism in humans”*. Seminar at the AmbiSEN Center of Excellence at the University of Pisa, January 11, 2003.

2002 *“Functional magnetic resonance imaging in the study of emotion and behavior”*. Seminar at the 2<sup>nd</sup> International fMRI Meeting and Autumn School, Sorrento (Italy), October 25-27.

*“Functional magnetic resonance imaging in assessing the neural bases of the effects of the pharmacological modulation of brain function”*. Seminar at the 2<sup>nd</sup> International fMRI Meeting and Autumn School, Sorrento (Italy), October 25-27.

*“Brain, Emotion and Behavior”*, Invited Symposium at the 11<sup>th</sup> World Congress on Psychophysiology-Celebrating the 20<sup>th</sup> Anniversary of IOP, Montreal, Canada, July 29-August 3, 2002

*“Neurometabolic correlates of the pharmacological potentiation of the cholinergic neurotransmitter system in humans”*. Symposium at the XIII Congress of the Italian Society for NeuroPsychopharmacology, Milan, July 9-12, 2002

*“The emotional brain: psychobiological aspects of social interaction in humans”*. Invited conference at the Rotary International Club, Lucca (Italy), April 18, 2002

*“PET and fMRI brain studies for early diagnosis and evaluation of pharmacological treatments in patients with Alzheimer’s disease”*. Lecture at the 7<sup>th</sup> International Geneva/Springfield Symposium on Advances in Alzheimer Therapy, Geneva (Switzerland), April 3-6, 2002.

*“Functional neuroanatomy of the organization of the ventro-temporal cortex in perception: in vivo PET and fMRI studies of the neurometabolic correlates”*. Scuola Normale Superiore, Pisa, March 2002

*“Seeking the roots of cognition: in vivo studies of the cerebral bases of mental activity in humans”*. Plenary lecture at the VII National Meeting of the Italian Society for Psychopathology, Rome, February 19-23, 2002

*“PET and fMRI Studies of Pharmacological Modulation of Brain Function and Metabolism in Humans: A New Approach to Understand the Effects of Psychopharmacological Agents”*. Lecture at the VII National Meeting of the Italian Society for Psychopathology, Rome, February 19-23, 2002

*“How does the Human Brain Perceive and Elaborate Distinctive Features and Affective Valence of the External World?”* Lecture at the VII National Meeting of the Italian Society for Psychopathology, Rome, February 19-23, 2002

*“Exploring the neurobiological bases of emotion and behavior in psychopathological conditions by using PET and fMRI”*. Invited symposium at the VII National Meeting of the Italian Society for Psychopathology, Rome, February 19-23, 2002.

2001 *“Activation of ventral extrastriate visual cortex during tactile discrimination of faces and objects: a fMRI study in congenitally blind and sighted subjects”*. Symposium on “Cognitive Neuroimaging”, The XII Conference of the European Society for Cognitive Psychology, Edinburgh, Scotland, September 5-8, 2001.

*“In vivo studies of brain metabolic correlates of normal and pathological cognitive and emotional function in humans”*. Lecture at the Corso di Perfezionamento in Neurologia dell’Età Evolutiva, Stella Maris Scientific Institute, Pisa, April 18, 2001.

*“Biochemical bases of brain energy metabolism: in vivo studies of cerebral glucose metabolism and blood flow in humans”*. Lecture at the Scuola Superiore di Studi Universitari e di Perfezionamento, Pisa, Feb. 7, 2001.

*“In vivo biochemical studies of normal and pathological human brain function: role of PET and fMRI.”* Lecture at the Scuola Superiore di Studi Universitari e di Perfezionamento, Pisa, Feb. 8, 2001.

*“Functional and neurometabolic exploration of the brain in the diagnosis and follow-up of patients with dementia”*. Symposium on Cognitive Deficits and Behavioral and Psychiatric Alterations in Dementias, Roma, March 5-6, 2001.

*“Functional Neuroimaging: Positron Emission Tomography in Alzheimer’s disease”*. Symposium on Dementias, Parma, March 28-31, 2001.

*“Anatomy and physiology of the brain: neurometabolic correlates of normal and pathological cognitive functions and emotions in humans”*. Istituto Superiore Universitario di Formazione Interdisciplinare, University of Lecce, February 2-3, 2001

*“In vivo study of the effects of pharmacologic modulation of memory in humans: PET and fMRI studies”*. Istituto Superiore Universitario di Formazione Interdisciplinare, University of Lecce, February 2-3, 2001

## Scientific Publications

H-index (as of April 28, 2020): 62 (Google Scholar); 55 (Scopus)

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Dati personali

**Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".**

Lucca 6 Novembre 2020

