

**Marco Pagani**  
**Curriculum Vitae et Studiorum**

**Address:**

Institute of Cognitive Sciences and Technologies  
National Research Council (CNR) tel: +39-06-44362370-5  
Via Palestro 32 fax: +39-06-44595243  
00185 Rome, Italy e-mail: marco.pagani@istc.cnr.it  
Matricola CNR: 42265  
Homepage: <http://www.istc.cnr.it/people/marco-pagani>  
C.F: PGNMRC58L21L219M

**Biographic notes:**

Born in Turin, Italy, on July the 21<sup>st</sup> 1958.  
Place of residence: 104 Via Val d'Aosta, 00141, Rome, Italy. Tel: +393381043043.  
Separated and father of five children.

**Education:**

**Ph.D. Thesis** at the Karolinska Institute of Stockholm, Sweden, entitled: "*Advances in Brain SPECT. Methodological and Human Investigations*". November **2000**.  
**Specialization in Emergency Surgery:** University of Rome "La Sapienza", Italy, with the thesis: "*Acute traumatic pathology of arterial epiaortic trunks*": **110/110 cum laude. 1991**  
**Degree in Medicine and Surgery:** University of Rome "La Sapienza", Italy, with the thesis: "*Emergencies in Crohn's disease*": **110/110 cum laude. >pril the 13<sup>th</sup> 1985**  
**Scientific High School Diploma:** Liceo L.Pasteur, Rome, Italy: **54/60. July 1977**

**International Awards:**

Winner of the **Francine Shapiro Award 2011** for the best 2010 scientific contribution in EMDR field for the paper: "**Grey matter changes in posterior cingulate and limbic cortex in PTSD are associated with trauma load and EMDR outcome**". *Nardo D, Högberg G, D, Looi J, Larsson SA, Hällström T, Pagani M.* J Psychiatr Res 2010; 44:477-485

Winner of the **Karolina Award 2000** for the best research contribution of the year at the Karolinska Hospital of Stockholm, Sweden for the paper: "**A novel phantom design for emission tomography enabling scatter- and attenuation-free single photon emission tomography imaging**". *Larsson SA, Jonsson C, Pagani M, Johansson L and Jacobsson H.* Eur J Nucl Med 2000; 27: 131-139

**Abilitation to the Medical Practice**

**October 1997:** Sweden  
**November 1988:** United Kingdom  
**October 1985:** Italy

**Work experience and responsibilities**

**2002-now:** Senior Researcher at the Institute of Cognitive Sciences and Technologies, CNR, Rome, Italy  
**2006-2007:** Four-months secondment at the European Science Foundation in Strasbourg, France, to produce methodological guidelines for ESF Forward Looking.  
**2005-2006:** Scientific Assistant Officer and Project Manager supporting the Department of Life Science of CNR, Rome, Italy  
**2001-2002:** Researcher at the Institute of Neurobiology and Molecular Medicine, CNR, Rome Italy  
**1991-2001:** Researcher at the Institute of Experimental Medicine, CNR, Rome, Italy  
**1987-1991:** Free Professional and grants from CNR, Italy  
**1985-1987:** Medical Officer at "Primo Battaglione Bersaglieri La Marmora"

of the Italian Army, Italy

**1981-1987:** Resident and Specializing Fellow at the Institute of Emergency Surgery, University of Rome "La Sapienza", Rome, Italy

### **European Commission Projects**

**2016-2019:** H2020-EU.3.1. - SOCIETAL CHALLENGES - PHC-28-2015. Member of the Advisory Board for NEurobehavioural predictiVE and peRsonalised Modelling of depressIve symptoms duriNg primary somatic Diseases with ICT-enabled self-management procedures (**NEVERMIND**).

**2016-2021:** H2020-JTI-IMI2-2015 IMI-EFPIA. Member of the Advisory Board for Amyloid imaging to Prevent Alzheimer's Disease (**AMYPAD**)

**1997-2001:** European Commission. Medical Coordinator for IMS-CNR for Austral On-line Network for Medical Auditing and Teleassistance (**ARGONAUTA**)

### **European Projects**

**2008-2013:** Investigator - European Normal Controls database of [123I]FP-CIT (DATscan) SPET scans of (**ENC-DAT**): **2005-2013 – EANM (European Association of Nuclear Medicine) initiative**

**2016-2018:** Section Chair of ResEARch for Life (**EARL**) - **EANM Initiative**

### **Memberships:**

**2016-2017** Senior Member of the Neuroimaging Committee of EANM

**2013-2015:** Chair of the Neuroimaging Committee of the EANM

**2009-2012:** Vice-Chair of the European Neuroimaging Committee of the EANM

**1996-now:** Full Member of the European Society of Nuclear Medicine

**1993-1999** Full Member of the Society of Nuclear Medicine

### **Knowledge of languages:**

**Italian** (mother tongue)

**English:** (fluent)

**Spanish:** (fluent)

**Swedish :** (fluent)

**French:** (conversational)

**Japanese:** (basic)

### **Courses attended:**

**Cognitive Neuroscience I. Perception, attention, memory and language.** Dept of Clinical Neuroscience, Dept of Psychology, Karolinska Institute/ Stockholm University. Stockholm, Sweden, 3<sup>rd</sup>-14<sup>th</sup> April **2000**

**Alzheimer's Disease – clinical features and pathogenic mechanisms.** Div. of Geriatric Medicine, NEUROTEC, Karolinska Institutet, Huddinge University Hospital, Stockholm, Sweden, 15<sup>th</sup> -19<sup>th</sup> November, **1999**

**Nuclear Medicine- Physics and Techniques.** Lund University, Swedish Association for Nuclear Medicine and Swedish Association of Radiophysics. Lund, Sweden, 4<sup>th</sup> -8<sup>th</sup> October **1999**

**SPECT-CBF. Practical and Scientific Course I.** Department of Clinical Neuroscience, Division of Clinical Neurophysiology, Lund University. Lund, Sweden, 24<sup>th</sup> -25<sup>th</sup> January **1998**

### **Educational Responsibilities:**

**2016-2017:** Adjunct professor of “Neurobiological Correlates of stress”, Bachelor degree in Psychology, International Telematic University Uninettuno, Rome (Italy)

**2015-2016:** Adjunct professor of “Neurobiological Correlates of stress”, Bachelor degree in Psychology, International Telematic University Uninettuno, Rome (Italy)

**2009-2013 Co-supervisor** of the Ph.D. student **Irina Manouilenko:** Autism Spectrum Disorders in adults – Biological Dimensions. Philosophical Doctoral Thesis, Karolinska Institute, Stockholm, Sweden

**2004-2008 Co-Supervisor** of the Ph.D. student. **Göran Högberg:** Results of Eye Movement Desensitization Reprocessing Treatment and Neurobiology in Post-traumatic Stress Disorder. Philosophical Doctoral Thesis, Karolinska Institute, Stockholm, Sweden

**2000-2004 Co-Supervisor** of the Ph.D. student **Ann Gardner:** Mitochondrial dysfunction and alterations of brain HMPAO SPECT in depressive disorder – Perspectives on origins of “somatisation”. Philosophical Doctoral Thesis, Karolinska Institute, Stockholm, Sweden,

#### **Member of Editorial Board:**

European Journal of Nuclear Medicine and Molecular Imaging

The Open Nuclear Medicine Journal

Frontiers in Medicine

#### **Guest Editor**

Special Issue of the Quarterly Journal of Nuclear Medicine and Molecular Imaging on European Conference on Clinical Neuroimaging topics. December **2017**

Special Issue of the Quarterly Journal of Nuclear Medicine and Molecular Imaging on: PET in Neurodegenerative Disorders, Issue 58 December **2014**

#### **Peer Reviewer for:**

Journal of Cerebral Blood Flow and Metabolism, Neurological Science, Journal of Affective Disorders, European Journal of Nuclear Medicine and Molecular Imaging, European Journal of Nuclear Medicine and Molecular Imaging Research, Current Alzheimer Research, Biological Psychiatry, Experimental Physiology, Journal of Nuclear Medicine, Neurobiology of Aging, Journal of Neurochemistry, Journal of Psychiatric Neuroscience, European Journal of Medical Physics, Psychological Medicine, Psychiatry Research Neuroimaging, Neuroimage, Quarterly Journal of Nuclear Medicine, Journal of Applied Physiology, European Archives of Psychiatry and Clinical Neuroscience, Journal of Neurology, Brain Topography, Journal of Alzheimer’s Disease, Brain Structure and Function

#### **Organisation of International Conferences**

**2017.** Chair of the Scientific and Local Organizing Committee of the 6<sup>th</sup> European Conference of Clinical Neuroimaging, Rome, Italy March 27<sup>th</sup>-28<sup>th</sup>

**2016** Chair of the Scientific and Local Organizing Committee of the 5<sup>th</sup> European Conference of Clinical Neuroimaging, Rome, Italy March 14<sup>th</sup>-15<sup>th</sup>

**2015** Chair of the Scientific and Local Organizing Committee of the 4<sup>th</sup> European Conference of Clinical Neuroimaging, Rome, Italy March 23<sup>rd</sup>-24<sup>th</sup>

(see <http://www.euroccn.com/>)

#### **GRANTS AND FUNDINGS**

##### **Short Term Mobility (STM) and JSPS Exchange Programs CNR**

**June-July 2010:** STM Creation of a normative database for 11C-butanol PET/CT studies in psychiatric patients. Karolinska Hospital, Stockholm, Sweden

**June-July 2008:** STM cerebral blood flow distribution of C-11 Butanol in patients with Asperger Syndrome. Karolinska Hospital, Stockholm, Sweden

**November-December 2005:** STM implementation of new statistical concepts in the managing of PET and SPECT neuroimaging and their impact on clinical diagnosis. Karolinska Hospital, Stockholm, Sweden

**July 2003:** STM Analysis of cerebral blood flow distribution by means of SPECT/PET and CBA/SPM in normal subjects and patients bearers of Alzheimer Disease and various psychiatric disorders. Karolinska Hospital, Stockholm, Sweden

**June-July 2001: STM** normal rCBF distribution in a large group of normal volunteers and on the effect of cortical atrophy on rCBF as detected by SPECT. Karolinska Hospital, Stockholm, Sweden

**Nov-Dec 2000 and Nov 2002-Jan 2003: STM** Assessment of non-protein thiols concentration and <sup>99m</sup>Tc-meso-HMPAO uptake at normoxic, hyperoxic and hypoxic ambient condition. Biological Imaging Research Center of the Fukui University, Japan

**April 2000: STM** Improvement of brain SPECT methodology and related software implementing a newly designed brain phantom. Karolinska Hospital, Stockholm, Sweden

**February-March 1997: STM** Improvement and automation of a software for the analysis and clinical management of brain images. Karolinska Hospital, Stockholm, Sweden

**Sept 1992-Jan 1993 and Nov 1993-Aug 1994: JSPS** PET studies in cerebral disorders, Kyoto University, Japan

#### **Grants**

<b>Topic</b>	<b>Funding Institution</b>	<b>Date</b>	<b>Amount</b>
Neurobiological features and response to EMDR treatment in breast cancer patients	EMDR-Research Foundation	May 2015	<b>USD 25.000</b>
Development of novel EEG analyses methods	EMDR Italy	April 2014	<b>Euro 5.000</b>
EMDR Investigation in cancer and long-lasting PTSD	EMDR Italy	March 2013	<b>Euro 10.000</b>
Comparison between EMDR and CBT in long-lasting PTSD	EMDR Europe	March 2012	<b>Euro 5.000</b>
Pre- intra- and post-treatment EEG imaging of EMDR – Therapy related changes in a cohort of patients and healthy controls	EMDR-Research Foundation	September 2011	<b>USD 10.000</b>
Multivariate analyses of PET scans data in neurodegenerative disorders – clinical applicat	Stockholms Lans Landstinget ALF 2013 project 503116	Jan-July 2013	<b>SEK 142.000</b>
Neurobiological substrate of Asperger Syndrom	Stockholms Lans Landstinget ALF 2012 Psychiatry-enhet	June 2012	<b>SEK 66.000</b>
Neurobiological substrate of Asperger Syndrome	Stockholms Lans Landstinget ALF 2012 project 502116	Jan-March 2012 and July-Dec 2012	<b>SEK 181.000</b>
Implementation of multivariate analysis in PET and SPECT neuroimaging	Stockholms Lans Landstinget ALF 2011 project 501116	Jan 2011- Dec 2011	<b>SEK 190.000</b>
Creation of a control group of healthy individuals investigated by <sup>11</sup> C-Butanol to be used as comparison group in psychiatric studies	Lerici Foundation	May 2010	<b>SEK 24.000</b>
New statistical concepts in PET and SPECT neuroimaging data and their impact on clinical diagnosis	Stockholms Lans Landstinget ALF 2008 project 562818	Jun 2008-Jun 2009	<b>SEK 330.000</b>
Explore the neurobiological substrate of Asperger Syndrome by CBF distribution of <sup>11</sup> C-Butanol as assessed by PET-CT	Lerici Foundation	May 2008	<b>SEK 18.000</b>
<sup>11</sup> C-Butanol in Autism Spectrum Disorder	Pfizer KPE project 97734	September 2007-April 2008	<b>SEK 172.000</b>
Analysis of CBF in normal subjects and patients with Alzheimer's Disease	Stockholms Lans Landstinget ALF 2006 project 557494	March 2006-May 2007	<b>SEK 214.000</b>
Implementation of <sup>11</sup> C-Butanol in psychiatric	Astra Zeneca project	Oct 2004-Dec	<b>SEK</b>

disorders	97736	2005	<b>113.000</b>
SPECT studies in PTSD	FoUU-Unit Psychiatry	Nov 2002- Oct 2004	<b>SEK 120.000</b>
Creation of a normative brain SPECT database	Stockholms Lans Landstinget Neuro Project	Jan 2001-Nov 2002	<b>SEK 110.000</b>
Cerebral blood flow during exposition to hyperbaric environment.	Swedish Research Council	Nov-Dec 1999	<b>SEK 126.000</b>
PET and SPECT Investigations in neurodegenerative disorders	Gustav V Jubileumsfonden	August-Oct 1996	<b>SEK 17.000</b>
Methodological issues in SPECT and PET	Swedish Medical Council	May 1995 – May 1996	<b>SEK 42.000</b>
Investigations in cerebral hemodynamics and intra-operative diagnosis	4 Grants Consiglio di Presidenza CNR	May 1988 – Sept 1990	<b>LIT 71.000.000</b>

### Scientific Collaborations:

#### *Research Affiliate:*

**2017-now.** Department of Nuclear Medicine & Molecular Imaging, Medical Imaging Center, Universitair Medisch Centrum Groningen, The Netherlands

#### *Continuous research collaboration:*

**1995 – now** Department of Nuclear Medicine and Hospital Physics, Karolinska Hospital, Stockholm, Sweden.

**2005- now** Departments of Clinical Neurology and Nuclear Medicine, University of Genoa, IRCCS AOU San Martino-IST, Genoa, Italy.

#### *Visiting Researcher:*

**Sept - Oct 1994 and Aug - Oct 1995 Nepal** in the frame of the agreement between CNR and RONAST in the Mount Everest and Kangchenjunga areas for studies on human physiopathology in altitude.

**Mar - Apr 1993 United States** at the Center for Metabolic and Experimental Imaging, Department of Nuclear Medicine, University of Texas, MD Anderson Cancer Centre, Houston, Texas, USA.

**Nov - Dec 1991 Venezuela** at the Departamento de Medicina Nuclear, Universidad de los Andes, Merida, Venezuela.

**May 1989 - Jan 1990 and Sept 1990 - Feb 1991 Sweden** at the Division of Vascular Surgery, Department of Surgery, Karolinska Hospital, Stockholm, Sweden.

**Oct 1987 - Oct 1988 England** at the Department of Surgery, St.Thomas' Hospital, London, UK.

### Participation to the Exchange Program between CNR and JSPS

**Nov - Dec 2000 and Nov 2002 - Jan 2003:** Assessment of non-protein thiols concentration and <sup>99m</sup>Tc-meso-HMPAO uptake at normoxic, hyperoxic and hypoxic ambient condition. Biological Imaging Research Center of the Fukui University, Japan

**Sept 1992 - Jan 1993 and Nov 1993 - Aug 1994:** PET studies in cerebral disorders, Kyoto University, Japan

### Participation at Short Term Mobility Program CNR

**June-July 2010:** Creation of a normative database for <sup>11</sup>C-butanol PET/CT studies in psychiatric patients. Karolinska Hospital, Stockholm, Sweden

**June-July 2008:** cerebral blood flow distribution of C-11 Butanol in patients with Asperger Syndrome. Karolinska Hospital, Stockholm, Sweden

**November-December 2005:** implementation of new statistical concepts in the managing of PET and SPECT neuroimaging and their impact on clinical diagnosis. Karolinska Hospital, Stockholm, Sweden

**July 2003:** Analysis of cerebral blood flow distribution by means of SPECT/PET and CBA/SPM in normal subjects and patients bearers of Alzheimer Disease and various psychiatric disorders. Karolinska Hospital, Stockholm, Sweden

**June-July 2001:** normal rCBF distribution in a large group of normal volunteers and on the effect of cortical atrophy on rCBF as detected by SPECT. Karolinska Hospital, Stockholm, Sweden

**April 2000:** Improvement of brain SPECT methodology and related software implementing a newly designed brain phantom. Karolinska Hospital, Stockholm, Sweden

**February-March 1997:** Improvement and automation of a software for the analysis and clinical management of brain images. Karolinska Hospital, Stockholm, Sweden

**Principal subjects and occupational skills covered:**

Methodology of Positron Emission Tomography (PET) and Single Photon Emission Computed Tomography (SPECT). Development of related radiopharmaceuticals  
Neurobiological correlates of psychiatric disorders and neurodegenerative diseases and their detection by functional and structural neuroimaging  
Optimisation of neurodegenerative and psychiatric disease diagnosis by advanced mathematical and multimodal statistical methods  
Neurophysiology and neurobiology of psychotherapies by SPECT, MRI and EEG

## Teaching at CME, Workshops, Courses

Neurobiologia della Mindfulness. **CME**. Master di I Livello: Approfondimenti sulla Mindfulness: dalla neurobiologia alle applicazioni cliniche. Turin, Italy 6<sup>th</sup> June **2017**

Patofisiologia per neuro immagini della violenza. **CME**. COIRAG Congresso Nazionale: La violenza nei legami. Turin, Italy 19<sup>th</sup> May **2017**

Novel findings on EMDR neurobiology and mechanisms of action. **Workshop**. Föreningen EMDR Sverige, Stockholm, Sweden, 5<sup>th</sup> May **2017**

Neuroscienze: cervello-mente-corpo. L'apporto delle neuroscienze e delle terapie psico-corporee alla risoluzione del trauma. **Workshop**. Locarno, Switzerland 8<sup>th</sup> April **2017**

Value of neuroimaging in disclosing PTSD and EMDR neurobiology. **Workshop**. Toulouse, France, 18<sup>th</sup> March **2017**

Aspetti anatomo-funzionali del trauma psicologico e dei diversi tipi di stress. **CME**. Psicoterapia e Neuroscienze. Scuola quadriennale di specializzazione in psicoterapia sistemico-famigliare del CMTF. Trieste, Italy, 18<sup>th</sup> February **2017**

Neurobiological aspects of trauma and stress. **Workshop**. Konsultationspsykiatri och psykosomatik, Huddinge Hospital, Karolinska Institutet, Stockholm, Sweden, 8<sup>th</sup> December **2016**

L'efficacia della psicoterapia vista attraverso le neuro immagini. **CME**. La Psiconeuroendocrinoimmunologia per il rinnovamento della psichiatria e della psicoterapia. Congresso SIPNEI, Rome, Italy, 21<sup>st</sup>-22<sup>nd</sup> October **2016**

Ruolo del neuroimaging nei pazienti con demenza e disturbi del movimento. **CME**. Recenti progressi nella gestione clinica dei pazienti con demenza. Congresso AIP, Bolzano, Italy, 7<sup>th</sup> October **2016**

Recent developments in the Neurobiology of EMDR and how to teach it on your training. **Workshop**. 17<sup>th</sup> EMDR European Conference, The Hague, Holland, 16<sup>th</sup> June **2016**

Recent developments in the Neurobiology of EMDR and how to use it in your supervision. **Workshop**. 17<sup>th</sup> EMDR European Conference, The Hague, Holland, 16<sup>th</sup> June **2016**

Impatto delle neuroimmagini in psicologia e psicoterapia. **CME**. Trauma e Neuroscienze. Locarno, Switzerland; 23<sup>rd</sup> April **2016**

Impatto della psicoterapia sulla neurobiologia del trauma. Neuroimmagini funzionali e strutturali. **Workshop**. Master di Psico-Neuro-Endocrino-Immunologia, L'Aquila, Italy, 15<sup>th</sup> April **2016**.

Sensibilità e resilienza allo stress: correlati neurobiologici. **Workshop**. Accrescere la resilienza nella popolazione: aspetti psicologici, sociologici, legali, assicurativi e responsabilità del sindaco. Culture And RiSkmanagement in Man-made And Natural Disasters. Florence, Italy 5<sup>th</sup> March **2016**

EMDR - Anatomo-fisiopatologia dell'efficacia clinica. **Workshop**. Review Days EMDR Italia. Rome, Italy, 14<sup>th</sup> November **2015**

Neurobiological aspects of somatization and trauma. **Workshop**. Konsultationspsykiatri och psykosomatik, Huddinge Hospital, Karolinska Institutet, Stockholm, Sweden, 15<sup>th</sup> October **2015**

EMDR dalla neurofisiologia alla pratica clinica. **CME**. I percorsi di cura del trauma: l'EMDR. Lecce, Italy, 30<sup>th</sup> September **2015**

EMDR psychopathological concepts: state-of-the art and future perspectives. **CME**. Swiss EMDR Association Annual meeting. Bern, Switzerland, 17<sup>th</sup> September **2015**

EMDR: dalla neurobiologia all'efficacia clinica. **CME**. Trauma e Neuroscienze. Locarno, Switzerland; 21<sup>st</sup> June **2015**

Implicazioni neurobiologiche del trauma e dell'EMDR. **CME**. Prospettive cliniche e neurobiologiche nel trattamento dell'abuso e della trascuratezza. Rome, Italy, 22<sup>nd</sup> May **2015**

L'impatto del trattamento con EMDR sulla neurobiologia del PTSD. **CME**. Il trauma e il suo ruolo nella psicopatologia. Interventi terapeutici. Verona, Italy, 2<sup>nd</sup> March **2015**

Neurobiologia del trattamento psicoterapico del trauma: stato dell'arte e prospettive future. **Workshop**. Giornate sul trauma 2014: modelli clinici a confronto. Bari, Italy 15<sup>th</sup> November **2014**.

EMDR - Anatomo-fisiopatologia dell'efficacia clinica. **Workshop**. Review Days EMDR Italia. Milan, Italy, 8<sup>th</sup> – 9<sup>th</sup> November **2014**

Quadri FDG-PET nella Sclerosi Laterale Amiotrofica. **CME**. Corso Avanzato di Medicina Nucleare in Neurologia. Pesaro, Italy, 25<sup>th</sup>-27<sup>th</sup> September **2014**

La risposta neuroendocrina allo stress post-traumatico e l'efficacia dell'EMDR nel PTSD: considerazioni neurofisiologiche e cliniche. **Workshop**. Memorie traumatiche e psicopatologie trauma correlate - Nuovi orizzonti e prospettive di cura. Matera, Italy 29<sup>th</sup> April **2014**

PTSD psychotherapies. Functional and structural neuroimaging and EEG monitoring. **Workshop CME**. XIII Congress of the European Society for Traumatic Stress Studies, Bologna, Italy, June 6<sup>th</sup>-9<sup>th</sup>, **2013**

Dementia 1&2. **Course CME**. EANM Neuroimaging Course, Wien, Austria 20<sup>th</sup>-21<sup>st</sup> April **2013**

Basi neurobiologiche dei disturbi psichici e correlati clinici. **CME**. Stigma, urgenze e immagini delle malattie mentali. AOU San Luigi Gonzaga, Orbassano, Italy. January 30<sup>th</sup> **2013**

Neurobiologia dell'EMDR. **CME**. EMDR, un nuovo approccio di intervento sul trauma nei disastri collettivi. AOU San Luigi Gonzaga, Orbassano, Italy. January 31<sup>st</sup> **2013**

Cerebrovascular Disease. **Course CME**. EANM Neuroimaging Course, Wien, Austria 12<sup>th</sup>-13<sup>th</sup> May **2012**

Movement Disorder. **Course CME**. EANM Neuroimaging Course, Wien, Austria 12<sup>th</sup>-13<sup>th</sup> May **2012**



Dementia 1&2. **Course CME.** EANM Neuroimaging Course, Wien, Austria 12<sup>th</sup>-13<sup>th</sup> May **2012**

Basi neurobiologiche del PTSD e dell'EMDR, metodologia, rivisitazione critica della letteratura e ricerche in atto. **Workshop CME.** NAVEN, Udine, Italy, November 19<sup>th</sup> **2011**

Neuroimaging and novel neurobiological findings in EMDR research. **Workshop CME.** 12<sup>th</sup> EMDR European Conference, Wien, Austria, June 3<sup>rd</sup> to 5<sup>th</sup> **2011.** Abs Book: 16-17.

Neurobiologia e nuovi concetti fisiopatologici dell'EMDR. **CME.** La psicotraumatologia oncologica. IRE-ISG Regina Elena San Gallicano, Rome, Italy November 22<sup>nd</sup> **2010**

Neuroimmagini ed effetti neurobiologici della psicoterapia del trauma. **CME PTSD modelli di trattamento Percorsi Internazionali di Studio in Psichiatria: Psicoterapia, Psicofarmacoterapia, Trattamenti integrati.** Rome, Italy, November 18<sup>th</sup>-20<sup>th</sup> **2010**

Emerging psychiatric disorders: neurobiology and differential diagnoses. **CME.** "Neuroimaging: Nuclear Medicine in: Psychiatry: Looking for Higher Diagnostic Accuracy - an Emphasis on Mood Disorders". (European Association of Nuclear Medicine Congress; October 9<sup>th</sup>-13<sup>th</sup>, **2010**, Wien, Austria. **Eur J Nuc Med Mol Imaging 2010**; 37: S2 288)

Trauma e psicoterapia, aspetti anatomici e neurobiologici. **CME.** Percorsi Internazionali di Studio in Psichiatria: Psicoterapia, Psicofarmacoterapia, Trattamenti integrati. Rome, Italy, 10<sup>th</sup> -11<sup>th</sup> December **2009**

Neurobiologia del trauma – Aspetti anatomici e funzionali. **CME.** La Depressione e il Trauma. Osp. S. Luigi Gonzaga, Orbassano, Italy, 11<sup>th</sup> November **2009**

Immagini funzionali e neurobiologia delle malattie psichiatriche. **CME.** XLV Congresso Nazionale Società Italiana di Psichiatria, Rome, Italy, 11<sup>th</sup> -15<sup>th</sup> October **2009.** Abs Book: pp. 28

Impiego delle metodiche medico-nucleari: i disordini psichiatrici emergenti. **CME.** "La Medicina Nucleare in Neurologia e Psichiatria", AIMN, Pesaro 24<sup>th</sup> -26<sup>th</sup> September **2009**

Impiego delle metodiche medico-nucleari: schizofrenia e depressione. **CME.** "La Medicina Nucleare in Neurologia e Psichiatria", AIMN, Pesaro 24<sup>th</sup>-26<sup>th</sup> September **2009**

Ottimizzazione delle metodologie di imaging funzionale per una migliore diagnosi delle malattie neurodegenerative. **CME.** "Parkinson e Demenza, dalla diagnosi alla presa in carico", Fondazione Don Gnocchi, Rome 19<sup>th</sup>-20<sup>th</sup> November **2005**

Telemedicine: from extreme conditions to daily life. Course of Telemedicine in the context of the organisational and technological transformation of health; Bertinoro, Italy, 20<sup>th</sup> April **1998**

Cardiovascular monitoring in extreme conditions. International Advanced **Course** in "Cardiovascular Physiology and Pathophysiology applied to Physical Exercise and Sport", Rome, 27<sup>th</sup> November-12<sup>th</sup> December **1995**

## Keynotes and Plenary Lectures

PTSD e psicoterapie: normalizzazione neurobiologica e guarigione clinica. Dept. of Biotechnological and Applied Clinical Sciences, University of L'Aquila, Italy, 16<sup>th</sup> November **2017**

Novel analysis methods in cerebral neurodegenerative diseases diagnosis by PET. National Conference of Nuclear Medicine 3<sup>rd</sup> Edition, Bucharest, Romania, 28<sup>th</sup> October **2017**

Neuroimmagini in psicologia: correlati funzionali della guarigione clinica. Convegno Consiglio Nazionale Ordine degli Psicologi, Roma, Italy, 14<sup>th</sup> October **2017**

EMDR mechanisms supported by neurobiological evidence. In: Eye movement desensitization and reprocessing (EMDR): neurobiological mechanisms and clinical applications. WPA XVII World Congress of Psychiatry. Berlin, Germany, 11<sup>th</sup> October **2017**

EMDR putative mechanisms of action. 47<sup>th</sup> Congress of the European Association of Behavioural and Cognitive Therapies. Lubijana, Slovenia, 15<sup>th</sup> September **2017**

Novel findings in Dementia diagnosis by PET. Linköping University Hospital, Linköping, Sweden, 14<sup>th</sup> June **2017**

Brain networking in neurodegenerative disorders. 6<sup>th</sup> European Conference on Clinical Neuroimaging. Rome, Italy, 28<sup>th</sup> March **2017**

Impatto dell'EMDR sulla neurobiologia del trauma. Università Salesiana, Rome, Italy, 2<sup>nd</sup> March **2017**

Impacto de EMDR en la neurobiologia de el TEPT. EMDR-APPIA Meeting, Montevideo, Uruguay, 9<sup>th</sup> November **2016**

Impacto de EMDR en el sistema límbico. IV Congreso Ibero-Americano EMDR. Buenos Aires, Argentina, 28<sup>th</sup> October-1<sup>st</sup> November **2016**

Imaging neurodegeneration: from metabolic patterns to individual diagnosis. 5<sup>th</sup> Balkan & 13<sup>th</sup> National Congress of Nuclear Medicine, Thessaloniki, Greece 17<sup>th</sup> – 20<sup>th</sup> June, **2016**

Metabolic and cognitive patterns in Amyotrophic Lateral Sclerosis. 2<sup>nd</sup> International conference on Neurological Disorders and Stroke. Dubai, UAE, 28<sup>th</sup>-30<sup>th</sup> April **2016**

Impact of EMDR treatment in functional and anatomical neuroimaging. Institut de Neurosciences de la Timone (INT), University of Marseille, France, 26<sup>th</sup> February **2016**

Impact neurobiologique de l'EMDR évalué par la neuroimagerie fonctionnelle. Colloque européen: Neurosciences et Psychotherapies. Bordeaux, France, 20<sup>th</sup> November **2015**

Liens neurobiologiques entre dissociation et EMDR. Congrès EMDR et Dissociation – Modèles et prises en charge. Metz, France, 17<sup>th</sup> November **2015**

Role of PET in the diagnosis and differential diagnosis of Movement Disorders. 38<sup>th</sup> European Society of Neuroradiology Annual Meeting. Naples, Italy, 19<sup>th</sup> September **2015**

Imaging EMDR related neurobiological changes. 2015 EMDRIA Conference; Philadelphia, USA, 29<sup>th</sup> August **2015**

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Neurobiology of PTSD and related psychotherapies. Seminar on Earthquake & Post-Traumatic Stress Disorder. Chinese Academy of Sciences Beijing, China, 9<sup>th</sup> September **2013**

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Imaging of hypoxia in neurology. 2<sup>nd</sup> Molecular Imaging and Biology in Oncology Meeting. Nice, France, January 27<sup>th</sup>-28<sup>th</sup> **2012**

Functional changes and EEG monitoring during EMDR therapy. 12<sup>th</sup> EMDR European Conference, Wien, Austria, June 3<sup>rd</sup> to 5<sup>th</sup> **2011**. Abs Book: 28-29

Effetti Neurobiologici della psicoterapia del trauma. In: L'EMDR: un approccio psicoterapico a ponte tra psiche e neurobiologia. XII Congresso Nazionale della Sezione di Psicologia Clinica e Dinamica. Torino 24<sup>th</sup> – 26<sup>th</sup> September **2010**. Congress Acta p. 165.

PET and Neuroscience. Pre-Conference Neuroimaging Course; 3<sup>rd</sup> Conference on Restauracion Neurologica, Habana, Cuba, 9<sup>th</sup> -13<sup>th</sup> March **2009**

Neurobiological substrate of psychiatric disorders investigated by multivariate analyses. 3<sup>rd</sup> Conference on Restauracion Neurologica, Habana, Cuba, 9<sup>th</sup> -13<sup>th</sup> March **2009**

Substrato neurobiologico della Sindrome da Stress Post-Traumatico e relativo impatto strutturale e funzionale della terapia con EMDR. Congresso Nazionale EMDR Italia, Milano, Italy, 7<sup>th</sup> - 9<sup>th</sup> November **2008**. Abs Book:page 13

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Argonauta Telemedicine Courses. 1<sup>st</sup> International Workshop for ODL Materials Production and Delivery. Valencia, Spain, 19<sup>th</sup> -21<sup>th</sup> July **2000**

How can you get a doctor on Mount Everest? Science Festival 2000, Göteborg, Sweden, 5<sup>th</sup> - 14<sup>th</sup> May **2000**

Telemedical cardiology - from research to clinical applications. Norsk Telemed '97; Bergen, Norway, 3<sup>rd</sup> - 5<sup>th</sup> September **1997**

Cognitive functions and cerebral blood flow distribution under acute and chronic hypoxia. Conferenza Italo-Americana sull'Emergenza, Courmayeur, Italy, 2<sup>nd</sup> - 5<sup>th</sup> April **1997**

Telemedicine in extreme and normal conditions. Marconi Meeting Point Seminar, Buenos Aires, Argentina, 18<sup>th</sup> November **1996**

Alterations neuropsychologiques et circulatoires cérébrales suite à l'hypoxie aigue et chronique. Seminaire sur la physiologie et environnement extreme, Chambéry, France, 12<sup>th</sup> October **1996**

Telemedicine in extreme and normal conditions. International Technological Convention, Johannesburg, Southafrica, 12<sup>th</sup> July **1996**

Antartic and Everest italian experiences. Symposium on issues in Telemedicine and Distance Education, Perth, Australia, 17<sup>th</sup> April **1996**

Brain and Hypoxia. Italian-Australian Scientific Weeks 96, Adelaide, Australia, 1<sup>th</sup> - 16<sup>th</sup> April **1996**

Advanced Italian Technologies in Telemedicine. ExpoCom China 95, Canton, China, 2<sup>nd</sup> - 9<sup>th</sup> December **1995**

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Citation indices	All	Since 2012
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