

THE PONTIFICAL ACADEMY OF SCIENCES

International Conference

# Memory in the Diseased Brain

27 January 2015 – Casina Pio IV – Vatican City



VATICAN CITY 2015



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In human physiology, memory is the process by which information from the outside world is encoded, stored and later retrieved.

Borges said that “we are our memory”.

Memory is such an important process that, historically, it has been assigned a fundamental value to individual and social life of man.

Herodotus reports that the Egyptian priests kept the memory of 341 previous generations, that means over 11,000 years.

The Greeks worshiped a deity called Mnemosyne, attributing a divine property to memory, to guarantee the preservation of culture and history of populations.

Papa Francesco, commenting on the reading from the Book of Nehemiah (8, 1-4, 5-6, 7-12), about the discovery of the book of the law that had been lost, he said that we all have the memory of salvation and that feel close the memory of our salvation warms the heart and lights up inside us the joy and concluded by stating to ask the Lord for the grace to always have his memory next to us.

But, if memory is a tool of human physiology of such a great historical, cultural and even religious value, what is actually memory and what happens when it fails?

This is what the International Conference “Memory in the Diseased Brain” to be held under the auspices of the Pontifical Academy of Sciences on January 27, 2015 at the Casina Pio IV, Vatican City, aims to clarify.

The conference will be opened by a keynote lecture by Prof Kandel, Nobel Prize for Medicine in 2000 for his research on the physiological basis of memory storage in neurons, which will present the state of the art of what is memory and what we actually know about it.

It will be followed by a first morning session, focusing the differences between normal and pathological memory and memory disorders in the course of the most important neurological and geriatric diseases, such as vascular dementia or Alzheimer’s dementia, neurodegenerative disorders and Parkinson’s disease.

In the afternoon, memory disorders in the course of some of the most severe psychiatric disorders will be dealt with, particularly emphasizing the topics regarding major depression and schizophrenia.

The final section covers the most recent therapeutic advances in memory disorders, both on the psychological and organic treatments aspects.

**Prof. Stefano Maria Zuccaro**  
Vatican Health Officer

**H.E. Msgr. Marcelo Sánchez Sorondo**  
Chancellor of the Pontifical Academy of Sciences

**Prof. Roberto Bernabei**  
Director Dept. of Geriatrics, Neurosciences  
and Orthopedics, Pol. Gemelli, Rome

# Program

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9:00 – **Welcome addresses: H.E. Msgr. Marcelo Sánchez Sorondo - Stefano M. Zuccaro**

**Introduction: H.E. Msgr. Jean-Louis Brugues**

**Chairman: Paolo M. Rossini** (Rome, I)

9:30 – 10:00 OPENING LECTURE: WHAT IS MEMORY  
**Eric R. Kandel** (New York, USA)  
Nobel Prize for Medicine 2000

**Chairmen: Roberto Bernabei** (Rome, I)  
**Gabriele Miceli** (Trento, I)

10:00 – 10:30 THE CLINICAL NEUROPSYCHIATRY OF MEMORY  
DISORDERS  
**Michael D. Kopelman** (London, UK)

10:30 – 11:00 THE IMPORTANCE OF VASCULAR CHANGES IN  
MEMORY DEFICITS: ALZHEIMER DISEASE AND  
VASCULAR DEMENTIA  
**Gabriel Gold** (Geneva, CH)

11:00 – 11:30 COFFEE BREAK

11:30 – 12:00 MEMORY IS ON THE FIRST LINE OF ATTACK OF  
ALZHEIMER DISEASE  
**Bruno Dubois** (Paris, F)

12:00 – 12:30 TREATMENT OF MEMORY DEFICITS IN  
NEURODEGENERATIVE DISEASES  
**Ezio Giacobini** (Geneva, CH)

12:30 – 13:00 MEMORY DEFICITS IN PARKINSONIAN  
PATIENTS  
**Clive Ballard** (London, UK)

13:00 – 14:30 LUNCH

**Chairmen: Mario Maj** (Naples, I)  
**Stefano M. Zuccaro** (Rome, I)

15:00 – 15:30 MEMORY AND COGNITIVE DYSFUNCTION IN  
DEPRESSION  
**Philippe H. Robert** (Nice, F)

15:30 – 16:00 NEW UPDATES ON THE PHARMACOLOGICAL  
TREATMENT OF DEPRESSION, WITH REFERENCE  
TO MEMORY AND COGNITIVE DYSFUNCTION  
**Marco A. Riva** (Milan, I)

16:00 – 16:30 MEMORY AND COGNITIVE DYSFUNCTION IN  
SCHIZOPHRENIA  
**Philip D. Harvey** (Miami, USA)

16:30 – 17:00 COFFEE BREAK

17:00 – 17:30 MEMORY AGING AND BRAIN MAINTENANCE  
**Lars Bäckman** (Stockholm, S)

17:30 – 18:00 THE ROLE OF COGNITIVE TRAINING AND  
EXERCISE IN THE PREVENTION OF MEMORY  
DISTURBANCES  
**Laura Fratiglioni** (Stockholm, S)

**Chairman: Ezio Giacobini** (Geneva, CH)

18:00 – 18:45 GENERAL DISCUSSION

# List of Speakers

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**Lars Bäckman**  
Professor in Cognitive Neurosciences,  
Aging Research Center,  
Karolinska Institute, Stockholm

**Clive Ballard**  
Professor of Age Related Diseases, Co-Director  
Biomedical Research Unit for Dementia, Institute of  
Psychiatry, King's College, London

**Roberto Bernabei**  
Director Department of Geriatrics,  
Neurosciences and Orthopedics,  
Policlinico A. Gemelli, Rome

**Jean-Louis Brugues**  
Archivist and Librarian H.R.C.

**Bruno Dubois**  
Head of Dementia Research Center (IM2A),  
Department of Neurology,  
Salpêtrière Hospital, University of Paris

**Laura Fratiglioni**  
Professor/Director, Aging Research Center,  
Karolinska Institute, Stockholm

**Ezio Giacobini**  
Professor at Department of Internal Medicine,  
University of Geneva

**Gabriel Gold**  
Physician/Head of Division, Dept. of Internal Medicine,  
Rehabilitation and Geriatrics,  
Trois-Chene Hospital, Geneva

**Philip D. Harvey**  
Professor of Psychiatry and Behavioral Sciences,  
University of Miami School of Medicine

**Eric R. Kandel**  
Co-Director Mind Brain Behavior Institute,  
Columbia University, New York

**Michael D. Kopelman**  
Professor of Neuropsychiatry,  
King's College, London

**Mario Maj**  
Ph Professor/Director, Department of Psychiatry,  
University of Naples

**Gabriele Miceli**  
Professor of Neurology, University of Trento,  
Director of CeRiN  
(Centre for Neurocognitive Rehabilitation)

**Marco A. Riva**  
Associate Professor of Pharmacology,  
University of Milan

**Philippe H. Robert**  
Director of the Nice Memory Center, C.H.R.U.,  
University Sophia Antipolis, Nice

**Paolo Maria Rossini**  
Scientific Director of AFaR, Professor and Director  
Institute of Neurology, Policlinico A. Gemelli, Rome

**Marcelo Sánchez Sorondo**  
Chancellor of the Pontifical Academy of Sciences

**Stefano Maria Zuccaro**  
Vatican Health Officer

# Speakers' Curricula Vitae

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## LARS BÄCKMAN

### Brief autobiographical sketch

I hold a professorship at the Aging Research Center, Karolinska Institute, in Stockholm, Sweden. I am a member of the Royal Swedish Academy of Sciences and the European Academy of Sciences. I have supervised 17 graduate students (main supervisor) who have defended their dissertations and 16 post docs. I have published several books and over 400 papers in peer-reviewed journals and edited volumes. My primary research area is cognition in normal and pathological aging, with special focus on memory. The research activities range from large-scale epidemiological studies to experimental brain-imaging work. Major current themes include sources of individual differences in cognitive aging, the transition from normal aging to dementia, the role of dopamine functions in cognitive aging, and the neural basis of cognitive plasticity across the life span. My work has been cited around 22,000 times and my current h index is 77.

### Education

Ph.D. 23 November 1984 (Department of Psychology, University of Umeå)

Post-doctoral Positions

Max Planck Institute for Human Development and Education, Berlin, West Germany

1 August 1985-30 September 1986: Post-doctoral fellow

Department of Psychology, University of Umeå, Sweden

1 October 1986-30 January 1988: Research scientist at DSF

Department of Clinical Neuroscience and Family Medicine, Section of Geriatrics, Karolinska Institute, Stockholm, Sweden

1 February 1988-31 May 1993: Researcher

Department of Psychology, Göteborg University

1 June 1993-30 September 1998: Professor of the Psychology of Human Aging

Department of Psychology, Uppsala University, Sweden

1 October 1998-30 September 2002: Professor of Cognitive Psychology

Aging Research Center, Karolinska Institute, Stockholm, Sweden

1 October 2002-31 January 2011: Professor of the Psychology of Aging

1 February 2011-present: af Jochnick Professor in the Cognitive Neuroscience of Aging

Center for Lifespan Psychology, Max Planck Institute for Human Development, Berlin, Germany

1 July 2004-31 August 2005: Visiting Professor

### Research Grants

I have had funding regularly as principal investigator since 1984 at one or several of the major research councils in Sweden. The total sum awarded amounts approximately to the equivalent of 25,000,000 USD.

### Supervision

I have supervised 19 graduate students who have defended their dissertations and 17 post docs.

### Honors and awards

Psychonomic Society, elected member 1988

American Psychological Association, elected fellow in Division 20: Aging, 1993

Academia Europaea (European Academy of Sciences), elected member 1998

Royal Swedish Academy of Sciences (Class IX: Social Sciences), elected member 2003, chairperson 2010-2015

Humboldt Research Award, Alexander von Humboldt Foundation (60,000 Euros), 2008

American Psychological Society, elected fellow, 2009

af Jochnick Foundation (donation, 50,000 000 Skr), 2011-2020



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## CLIVE BALLARD

Clive Ballard is Professor of Age Related Diseases, Director of the Biomedical Research Unit for Dementia at the Institute of Psychiatry, co-Director of the Wolfson Centre for Age Related Diseases at King's College London and served as Director of Research for the Alzheimer's Society between 2003 and 2013. He has published widely in the areas of dementia with Lewy bodies/Parkinson's disease dementia, vascular dementia and neuropsychiatric symptoms in people with dementia, including more than 25 influential clinical trials in this area. He has more than 500 research publications including papers in Nature, New England Journal of Medicine and the Lancet. He has an extensive ongoing programme of research including key NIHR programmes focussing on improving the treatment and care for people with dementia living in care homes; MRC, HTA, commercial and charity funded clinical trials focussing on treatment of neuropsychiatric symptoms and disease modifying therapies for people with early Alzheimer's disease and an extensive drug discovery programme in Alzheimer's disease and Parkinson's disease dementia including substantial support from the Wellcome Trust, industry, Safra foundation, other charities and a European Union programme examining stem cell therapies for Alzheimer's disease. Perhaps his most substantial research contribution has been his body of clinical studies, pathological studies and clinical trials highlighting the considerable harms of antipsychotic drugs in people with dementia and key trials to provide evidence based alternative treatment approaches, which has contributed to a major change in clinical practice.

He has also been successful in acquiring funding for a series of major RCTs to evaluate treatments for people with Alzheimer's disease identified using the principles of experimental medicine and which will play a key role in enabling the BRU-D to achieve its' objectives regarding clinical trials and experimental medicine, and in increasing the opportunities for people with dementia to take part in clinical research. He also leads the dementia theme within the neuropsychiatry cluster of the BRC for mental health, which has involved the development of an extensive care home research network which is already supporting 2 substantial NIHR/HTA funded RCTs and has attracted major commercial funding for a clinical trial to examine a novel treatment for psychosis in people with neurodegenerative diseases.



## ROBERTO BERNABEI

### EDUCATION

Graduated at the Università Cattolica del Sacro Cuore (U.C.S.C.) where he attended the Internal Medicine and Cardiology residency.

### TEACHING EXPERIENCE

Professor of Internal Medicine at the U.C.S.C. (1990-present) and Director of the Department of Geriatrics and Rehabilitative Medicine of the A. Gemelli University Hospital (2004-present), that is the largest Geriatric department in Italy.

Visiting professor at the Department of Community Health of Brown University School of Medicine, RI USA (2000-present).

### MEMBERSHIPS

Board member of the European Academy for Medicine of Aging (EAMA) (2000-present).

Executive-vice president of interRAI, a US non-profit corporation of scientists of 25 countries producing standard assessment instruments for the frail elderly (1992-present).

Director of the Department of Geriatrics, Neuroscience and Orthopedics of the A. Gemelli University Hospital.

President of "Italia Longeva" National Network for Research on Ageing and the Active Longevity.

Member of the special joint commission (Ministry of Health-Ministry of Labor) for the disability in the elderly and related problems (2003-present).

Member of the Consiglio Superiore di Sanità, the highest consultative organism for the Italian Parliament and Cabinet (2002-2005) – (2006-2009).

Member of the experts' Commission of the Agenzia Italiana del Farmaco (2004-present).

President of the Italian Society of Gerontology and Geriatrics. Member of the Geriatric Working Group of AIFA.

Project leader (2000-2004) of a large European Commission's grant involving 11 EU countries to define the best home care model for the elderly. Some important results on drug use in the EU elderly were published in the year 2005 in JAMA.

Project leader (2009-2012) of an other EU grant - SHELTER - of nursing home characteristics.

Project leader of SPRINT-T project (Sarcopenia and Physical frailty IN older people: multi-component Treatment strategies) under the umbrella of the IMI (Innovative Medicines Initiative), equally funded by the European Commission and the European Federation of Pharmaceutical Industries and Associations (EFPIA).

### PUBLICATIONS AND PAPERS

Author of over 150 papers published in peer reviewed journals, four books, eight book chapters.



## JEAN-LOUIS BRUGUES

Born on 22 November 1943, Bagnères-de-Bigorre (Hautes-Pyrénées), France

### ACADEMIC DEGREES

- High School at Béziers (France)
- Licences in economics (Montpellier and Paris, France), 1965
- Laurea from the Faculty of Law of Montpellier (France), 1962
- Diploma from the Institute of Political Science (Paris, France), 1966
- Diploma of Graduate Studies in Political Science (Strasbourg, France), 1972
- Doctorate in Theology (Toulouse, France), 1989
- Doctor honoris causa from the Aquinas Institute of Theology (University of Saint Louis, USA), 2002

### MEMBER OF THE ORDER OF PREACHERS (DOMINICANS)

- Entrance in Province of Toulouse in September 1968
- Solemn Profession, 2 October 1972
- Ordination to the Priesthood, 22 June 1975
- Prior of the Friary of Toulouse, 1980-1986
- Prior of the Friary of Bordeaux, 1987-1990
- Provincial of the Province of Toulouse, 1992-1997

### ACADEMIC CAREER

- Teacher of General Moral Theology at the Institut Catholique de Toulouse (France) from 1976 to 1997. Chair of Moral Theology in 1992.
- Professor of Fundamental Moral Theology at the Université de Fribourg (Switzerland), from 1997 to 2000
- Courses : fundamental moral theology, ethics and sexuality, ethics and aesthetics
- Member of the International Theological Commission from 1986 to 2002
- Member of the National Consultative Committee on Ethics (France), from 1998 to 2000

### ECCLESIASTICAL APPOINTMENTS

- Nominated the Bishop of Angers on 20 March 2000; episcopal consecration in the Cathedral of Angers on 30 April 2000, the same day canonical possession of the diocese was taken
- President of the Doctrinal Commission of the French Bishops' Conference from 2002 to 2006
- Nominated Consulter to the Congregation for Institutes of Consecrated Life in 2006
- Nominated Secretary of the Congregation for Catholic Education by Pope Benedict XVI on 10 November 2007. Assumed this role on 1 February 2008
- With this last nomination, became the Archbishop Emeritus of Angers
- Consulter to the Congregation for the Doctrine of the Faith (2010-2012)
- Member of the Scientific Committee of the J. Ratzinger/Benedict XVI Foundation since 2010
- Nominated Archivist-Librarian of the Holy Roman Church by Pope Benedict XVI on 26 June 2012

Preacher of the Lenten Conferences at the Cathedral of Notre-Dame de Paris, 1995-1997

Knight of the Order of the Legion of Honor, 2004



## BRUNO DUBOIS

Bruno Dubois is currently Professor of Neurology at the Neurological Institute of the Salpêtrière University Hospital at Paris, University Pierre et Marie Curie Paris 6. He is Director of the Behavioural Neurology Department and of the Dementia Research Center at the Hospital. He is coordinator of the National Reference Center or "Rare Dementias" and of the National Reference Center for Young Onset AD. He is President of the Scientific Committee of France-Alzheimer and of IFRAD (International Fund Raising for Alzheimer's disease), consultant for the Human Frontier Program and Expert of the French Agency of Drugs. He is a member of the European Alzheimer Disease Consortium. He has published on anatomical and biochemical studies on the central cholinergic systems in rodents and humans; on cognitive neuropharmacology; and on neuropsychology in patients with dementia, with special reference to memory and executive functions. He recently organized an International Working Group on the new criteria for Alzheimer's disease and a Task Force on the new criteria for Parkinson's disease dementia. He is principal or co-investigator of a number of research programmes focusing on AD, MCI and dementia in Parkinson's disease.

## LAURA FRATIGLIONI

### HIGH EDUCATION DEGREES

**M.D. Degree:** 1977, University of Florence, Italy (1997: "Legitimerad läkare" in Sweden).  
**Specialist-Neurology** 1991, University of Florence, Italy (1997 in Sweden)  
**Ph.D.:** 4 June 1993, PhD in Geriatric Epidemiology, Karolinska Institutet, Stockholm  
**Post-doct:** 1994-1995 (Half-time), University of Florence, Italy  
**Associate Professor:** 1997, Karolinska Institutet, Stockholm (docent)  
**Professor:** 2000, Karolinska Institutet, Stockholm

### CURRENT POSITIONS

2008-present Director of the National Graduate School for Aging Research  
2007-present Director of Aging Research Center (ARC), Karolinska Institutet-Stockholm University  
2001-present Professor at the Aging Research Center, Karolinska Institutet  
2000-present Research Leader, Stockholm Gerontology Research Center  
1999-present Senior Physician (överlakare), Geriatric Medicine, Karolinska University Hospital

### PREVIOUS POSITIONS

2001-2006 Co-Director of Aging Research Center, Karolinska Institutet (KI)  
2001-2005 Head of the Division of Geriatric Epidemiology, Dept. of NEUROTEC, KI  
2000-2001 Lecturer (Associate Professor) position at the Dept. of NEUROTEC, KI  
1996-1999 Research Scientist at the Division of Geriatric Medicine, Karolinska Institutet  
1994-1995 Assistant Professor ("överläkare"), Florence University Hospital, Italy  
1990-1993 PhD position, Division of Geriatric Medicine, Karolinska Institutet  
1982-1989 Assistant Professor, Neurological Clinic, University Hospital of Florence, Italy

### CURRENT RESEARCH PROJECT LEADERSHIP

2012-present WP-PI in 4 European projects (NEW-AGE, HATICE, ESCAPE; MPI-AGE)  
2010-present Core leader & member of the Steering Committee - "Swedish Brain Power"  
2000-present Principal Investigator "The SNAC-Kungsholmen Population Study (SNAC-K)"  
1999-present Member of the steering group in the national study SNAC  
1996-present Scientific Coordinator of the Kungsholmen Project on Aging and Dementia

### PRIZES

2013 Lifetime Achievement Award from the American Alzheimer's Association  
2011 Wajlit och Eric Forsgrens prize for AD researcher - Umeå University  
2010 The Sohlberg's Nordic Prize in Gerontology  
2010 Sofiahemmet-Research and Education prize in dementia research  
2009 Karolinska Institutet Folksam's prize in epidemiologic research  
2008 The Swedish Society of Medicine - "Inga Sandeborg's prize"  
2001 Italian Society of Neurology - Award "In memory of Prof. L. Amaducci"

# Speakers' Curricula Vitae

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## EZIO GIACOBINI

### EDUCATION

M.D. (Turin, Italy) 1954, Certified M.D. 1960 (Italy), Certified M.D. 2003, (Switzerland), PhD, Cellular Neuropharmacology (Karolinska Institute, Stockholm, Sweden) 1959, Honorary M.D. University of Kuopio, Finland, 2000. Honorary member: Ital. Soc. of Pharmacology (2004), Ital. Soc of Geriatrics and Gerontology (2006).

### CURRENT POSITIONS

Ezio Giacobini is since July 1995 a professor associated with the Dept. of Rehabilitation and Geriatrics, University of Geneva Medical School in Geneva, Switzerland and an Adjunct Professor of Pharmacology, Psychiatry and Neurology at Southern Illinois School of Medicine Springfield, Il. USA. From January 1982 until June 1995 he was professor and Chairman of the Pharmacology Dept. and Scientific Director of the NIA (NIH) Alzheimer Center at Southern Illinois School of Medicine Springfield, Ill. USA. Before January 1982 he was professor of Biobehavioral Science at the Univ. of Connecticut, Storrs, CT and head of the laboratory of neuro-psychopharmacology.

### RESEARCH

His major research interest is in the pre-clinical and clinical development of drug therapy for Alzheimer's Disease. He is the author of over 300 peer-reviewed publications in international journals in the field of pharmacology, psychiatry and neurology, and books, chapters and articles in the field of neuropharmacology of the cholinergic system with a special interest in the area of Alzheimer disease therapy and cholinesterase inhibitors.

### PUBLICATIONS

He is the editor of three comprehensive volumes: Cholinesterases and Cholinesterase Inhibitors. (Martin Dunitz Publ. London, 2000); Butyrylcholinesterase: its function and inhibitors (Martin Dunitz Publ. London, 2003); The brain cholinergic system (with. GC Pepeu, Taylor and Francis, Publ. 2006)

### SOCIETY AFFILIATIONS

He was the founder with A. Vernadakis of Developmental Neuroscience (1973-1976) and Int. J. Developmental Neuroscience (1976-present) and the Chief Editor of Alzheimer Insights (1995- 2002). He serves currently on the editorial board of seven international scientific journals and is the co-editor of a further four (Int. J. Developmental Neuroscience, Japanese Journal of Pharmacology, Intern. Journal of Geriatric Psychopharmacology, J. of Neurotransmission).

### PRIZES

He received the LIFE TIME ACHIEVEMENT AWARD IN ALZHEIMER'S DISEASE RESEARCH from the Alzheimer Association (USA) presented at the 8th Int. Conference on AD in Stockholm, July 2002.

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## GABRIEL GOLD

Professor Gabriel Gold is currently Chief of Service in the Department of Internal Medicine, Rehabilitation and Geriatrics of the University Hospitals of Geneva where he is responsible for a 146 bed division including a unit specializing in acute medical care for demented patients. His service also includes a large outpatient Memory Clinic. He has trained in France and in the United States where he received his board certifications in Internal Medicine and in Geriatrics. He has extensive clinical experience in geriatrics and the care of people with cognitive disorders. His main research interests include dementia and cognitive impairment focusing more specifically on diagnosis, clinicopathologic correlations and vascular lesions. He is the author of more than 120 peer-reviewed articles in this field.

### MD DEGREE

1983          Université Pierre et Marie Curie, Faculté de Médecine de la Pitié-Salpêtrière, Paris, France.

### POST GRADUATE TRAINING

1983-1986    Internal Medicine Residency.  
Mount Sinai Services, City Hospital Center at Elmhurst, Elmhurst, NY 11373.

1986-1988    Fellowship in Geriatrics.  
Department of Geriatrics and Adult Development. Mount Sinai Medical Center, New York, NY 10029.

### BOARD CERTIFICATIONS

1986          Certified in Internal Medicine by the American Board of Internal Medicine.  
1988          Certificate of Added Competency in Geriatric Medicine.

### PAST APPOINTMENTS

Mount Sinai Dept. of Geriatrics (Instructor 1989, Assistant Professor 1989-95).

### CURRENT APPOINTMENT

Professor and Chief of service, Division of Geriatrics, Department of Internal Medicine, Rehabilitation and Geriatrics, Geneva University Hospitals and Geneva Medical School.

### SOCIETY AFFILIATIONS

Fellow:          American College of Physicians.  
Member:        American Geriatrics Society, Swiss Society of Geriatrics Professionals, Swiss Society of Internal Medicine.

### RESEARCH AND CLINICAL SPECIAL INTERESTS

Brain aging, cognitive impairment and dementia, vascular dementia.



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## PHILIP D. HARVEY

### DATE OF BIRTH

14 April 1956, Pittsfield, MA

### CURRENT RANK

Professor of Psychiatry and Behavioral Sciences

### PRIMARY DEPARTMENT

Psychiatry and Behavioral Sciences

### EDUCATIONAL BACKGROUND

B.A. May, 1978, Columbia College, New York, NY 10027

Major: Psychology

M.A., May, 1980, State University of New York at Stony Brook, 11794,

Major: Clinical Psychology

Ph.D., August, 1982, State University of New York at Stony Brook, 11794,

Major: Clinical Psychology

Philip D. Harvey, PhD is Leonard M. Miller Professor of Psychiatry and director of the Division of Psychology at the University of Miami Miller School of Medicine. He was formerly professor of Psychiatry at Emory University School of Medicine and Mt. Sinai School of Medicine and Chief Psychologist at Mt. Sinai Hospital. He received his PhD in Clinical Psychology from SUNY at Stony Brook in 1982. He is the author of over 900 scientific papers and abstracts and he has written over 60 book chapters. He is a widely cited author who was just designated by Thompson-Reuters as the being in the top 1% of all researchers in citations in mental healthy research He has edited 6 books and written 4 books on topics of psychological assessment, schizophrenia, and aging. He has received a number of awards previously, including the Inaugural Schizophrenia International Research Society Clinical Scientist Distinguished Contributions award (2012), the 2014 Alexander Gralnick Schizophrenia Research award from the American Psychiatric Foundation, and the 2014 John Blair Barnwell award, the highest award for Clinical Research across all scientific disciplines from the US Department of Veterans affairs.

His research has focused for years on cognition and functioning and he has written extensively on aging in schizophrenia, functional impairments in severe mental illness, the cognitive effects of typical and atypical antipsychotics, as well as studying the effects of cognitive enhancing agents in various conditions, including schizophrenia, dementia, affective disorders, and traumatic brain injury. He directs an annual conference on cognition that is an official satellite of the International Congress on Schizophrenia Research and the Schizophrenia International Research Society.

### EMPLOYMENT HISTORY

**Current:** Leonard M. Miller Professor of Psychiatry and Behavioral Sciences, Tenured, 8 July 2010.  
Senior Health Research Scientist (GS15), Miami VAMC, 8 July 2010 to present.



# Speakers' Curricula Vitae

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## ERIC R. KANDEL

### DATE AND PLACE OF BIRTH

7 November 1929

Vienna, Austria

### NATIONALITY

United States

### EDUCATION

1952 B.A. Harvard College, cum laude 1956 M.D. New York University School of Medicine.

### PROFESSIONAL EXPERIENCE

#### CLINICAL

1956-1957 Intern, Montefiore Hospital, New York.

1960-1964 Resident in Psychiatry, Massachusetts Mental Health Center, Harvard Medical School, Boston.

1964-1965 Staff Psychiatrist, Massachusetts Mental Health Center, Harvard Medical School, Boston.

#### RESEARCH

1957-1960 Associate in Research, Laboratory of Neurophysiology, National Institute of Mental Health, Bethesda.

1961-1962 Milton Research Fellow, Department of Psychiatry Harvard Medical School, Boston.

1962-1963 Special Fellow, USPHS, College de France, Paris, France (Laboratory of Ladislav Tauc).

1963-1965 Instructor, Department of Psychiatry, Harvard Medical School Senior Research Psychiatrist, Massachusetts Mental Health Center.

1965-1974 Associate Professor to Professor, Departments of Physiology and Psychiatry, New York University School of Medicine 1968-1974 Chief, Department of Neurobiology and Behavior, The Public Health Research Institute of the City of New York.

1974-present Professor, Departments of Physiology and Psychiatry; College of Physicians and Surgeons of Columbia University.

1974-1983 Director, Center for Neurobiology and Behavior, College of Physicians and Surgeons of Columbia University.

1983-present University Professor, Columbia University.

1984-present Senior Investigator, Howard Hughes Medical Institute College of Physicians and Surgeons of Columbia University.

1992-present Professor, Department of Biochemistry and Molecular Biophysics College of Physicians and Surgeons of Columbia University.

2004-present Fred Kavli Professor and Director, Kavli Institute for Brain Sciences College of Physicians and Surgeons of Columbia University.

2009-present Co-Director, Mortimer B. Zuckerman Mind Brain Behavior Institute (formerly the Mind Brain Behavior Initiative), Columbia University.

### HONORARY DEGREES

1983: Doctor of Humane Letters, Honoris Causa (Awarded by The Jewish Theological Seminary of America).

1986: Doctor of Science, Honoris Causa (Awarded by Hahnemann University); Doctor of Science, Honoris Causa (Awarded by the State University of New York at Stony Brook); Doctor of Humane Letters, Honoris Causa (Awarded by Johns Hopkins University).

1987: Doctor of Science, Honoris Causa (Awarded by The Mount Sinai Medical Center).

1991: Doctor of Science, Honoris Causa (Awarded by Northwestern University).

1994: Doctor of Medicine, Honoris Causa (Awarded by the University of Vienna).

1999: Doctor of Science, Honoris Causa (Awarded by the University of Edinburgh).

2000: Doctor of Medical Science, Honoris Causa (Awarded by the University of Turin).

2001: Doctor of Science (Medicine), Honoris Causa.



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## MICHAEL D. KOPELMAN

**DATE OF BIRTH**  
8 February 1950

### CURRENT APPOINTMENTS

Professor of Neuropsychiatry and Honorary Consultant Neuropsychiatrist, Institute of Psychiatry, Kings College London, and South London and Maudsley NHS Trust, based at St Thomas's Hospital.

### PUBLICATIONS INCLUDE

Towgood KJ, Pitkanen M, Kulasegara R, Fradera A, Soni S, Sibtain NA, Reed L, Bradbeer C, Barker GJ, Dunn JT, Zelaya F, Kopelman MD: Regional cerebral blood flow and FDG uptake in asymptomatic HIV-1 men. *Human Brain Mapping* 2012; 24: 2484-2493.

Towgood KJ, Pitkanen M, Kulasegaram R, Fradera A, Kumar A., Soni S, Sibtain NA, Reed L, Bradbeer C, Barker GJ, Kopelman MD: Mapping the brain in younger and older asymptomatic HIV-1 men: frontal volume changes in the absence of other cortical or diffusion tensor abnormalities. *Cortex* 2012; 48: 230-241.

Cappelletti M, Butterworth B, Kopelman MD: Numeracy skills in patients with degenerative disorders and focal brain lesions: a neuropsychological investigation. *Neuropsychology* 2012; 26: 1-19.

Sambo C, Howard M, Kopelman MD, Williams S, Fotopoulou A: Knowing you care: effects of perceived empathy and attachment style on pain perception. *Pain* 2010; 151: 687-693.

Fotopoulou A, Pernigo S, Maeda R, Rudd A, Kopelman MD: Implicit and explicit awareness in anosognosia for hemiplegia: unconscious interference without conscious re-representation. *Brain* 2010; 133: 3564-3577.

Maguire EA, Kuraman D, Hassabis D, Kopelman MD: Autobiographical memory in semantic dementia: a longitudinal fMRI study. *Neuropsychologia* 2010; 48: 123-136.

Kopelman MD: Varieties of confabulation and delusion. *Cognitive Neuropsychiatry* 2010; 15: 14-37.

Kopelman MD, Bright P, Fulker H, Hinton N, Morriss A, Verfaillie M: Remote semantic memory in Korsakoff and herpes encephalitis patients. *Neuropsychology* 2009; 23: 144-157.

Kopelman MD, Thomson A, Guerrini I, Marshall EJ: The Korsakoff Syndrome: Clinical aspects, psychology and treatment. *Alcohol and Alcoholism* 2009; 44: 148-154.



# Speakers' Curricula Vitae

International Conference  
**Memory in the  
Diseased Brain**  
27 January 2015 – Casina Pio IV – Vatican City

## MARIO MAJ

Born in Naples on 20 June 1953.

### CURRENT POSITIONS

Professor of Psychiatry at the University of Naples since 1985.

Director of the Department of Psychiatry, University of Naples SUN, and of the Collaborating Centre of World Health Organization for Research and Training in the field of Mental Health since 1995.

### PREVIOUS POSITIONS

Head in Geneva of the Section of Neuropsychiatry of the Global Programme on AIDS of the World Health Organization (1989-1991).

President of the World Society of Psychiatry (2008-2011).

President of the European Society of Psychiatry (2003-2004).

President of the Italian Society of Psychiatry (2000-2002).

Member of the Main Board of Health (2006-2013).

Honorary Fellow of the Royal College of Psychiatrists and of the American College of Psychiatrists. Honorary Degree in Medicine at the University of Craiova.

Editor of the journal *World Psychiatry* (impact factor: 12,846) and member of the Editorial Board of several international scientific journals.

Member of the Steering Committee for the Chapter on Mental Disorders of the ICD-11. Coordinator of the Working Group on Mood and Anxiety Disorders for the ICD-11. Member of the Working Group on Mood Disorders for DSM-5.

Active as a teacher and as a researcher in several European countries, Africa, Asia and Latin America.

### PUBLICATIONS

Author of more than 700 works in scientific journals and several monographs.



## GABRIELE MICELI

Born in Rome on 12 October 1950.

### EDUCATION

He graduated in Medicine (1974), specializing in Neurology (1978) and in Psychiatry (1983) at the Catholic University. Internal doctor since 1974; researcher since 1976; associate professor from 1991 to 2006 at the Institute of Neurology of the Catholic University; since 2006 Professor of Neurology at the University of Trento. In the years 1980-81 he worked at the Neurobehavioral Unit and at the Aphasia Research Center of the Veterans Administration Hospital (affiliation with the Department of Neurology in Boston University), to study issues related to aphasia and other deficits in cognitive function.

### COLLABORATIONS

**Current:** Project ITPAR (University of Trento - National Brain Research Center, India); Cognitive Science Department, Johns Hopkins University (Baltimore, USA); University of Potsdam, Groningen, Newcastle, Macquarie University (Sydney) as part of the PhD EU (Erasmus Mundus) IDEALAB (International Doctorate in Experimental Approaches to Language And Brain). Collaborations in Italy with the University of Verona, Milan, Milan / Bicocca, Brescia.

**Past:** He has worked in the USA with the Cognitive Neuroscience Laboratory, Harvard University; with Neurobehavioral Unit and the Aphasia Research Center, VA Hospital, Boston; with the Department of Psychology, University of California, San Diego. He collaborated in Italy with the Fondazione S. Lucia and the Institute of Psychology of the CNR, Rome.

### RESEARCH INTERESTS

Deficits of neurocognitive functions, especially with regard to language disorders (grammar, lexical-semantic system and phonology / sublexical spelling); phenomena of neuroplasticity-related behavioral rehabilitation and neuromodulation. Aims: To understand the organization of cognitive functions and their related neurofunctional, with behavioral and neuroimaging techniques (fMRI, tractography, MEG).

### SCIENTIFIC ACTIVITY

Author of over 90 publications in peer-reviewed journals, including Nature and Nature Neuroscience. Co-author of two tests for the assessment of aphasia used in Italy and abroad (France and Spanish-speaking countries). Keynote lectures at the British Neuropsychological Society, at the Italian Federation of Speech Therapists, at the Italian Society of Physical Medicine and Rehabilitation, at the Italian Society of Audiology and Phonology. Seminars on invitation at the Italian Embassy in London as part of Italian Science Lecture Series. Stay on invitation at the Ecole Normale Supérieure in Paris for a series of lessons and seminars on cognitive neuropsychology of language. Invited presentations to more than 50 international conferences. Member of the editorial boards of international journals (Cognitive Neuropsychology, Brain and Language, Reading and Writing; Functional Neurology), and the advisory board of an international series (Neuropsychology and Cognition). Committee member of the auditors INSERM (France), dell'HFSP (Japan) and the MIUR. Chairman (2006-2008) of the Governing Board of the Academy of Aphasia, the most important international scientific association on language disorders. Representative of Italian neuropsychology at the International Neuropsychological Symposium (2010-2015). Permanent member (since 2014) of the Scientific Advisory Board of the Ecole Normale Supérieure (Paris).

## MARCO A. RIVA

Associate Professor of Pharmacology at the University of Milan since 2001.

He received his degree in Pharmaceutical Chemistry and Technology in 1984, and his Specialization in Pharmacology in 1987 from the University of Milan. He has been a Postdoctoral fellow at the Center for Molecular and Behavioral Neuroscience of Rutgers University, New Jersey (1987-1989) and at the Department of Anatomy at Georgetown University of Washington DC (1989-1991). After being Research Assistant at DiBIT, San Raffaele Hospital, from 1994 to 1997, he became Assistant Professor of Pharmacology at the University of Milan in 1998 and he was appointed Associate Professor in 2001. He is currently Deputy Director of the Department of Pharmacological and Biomolecular Sciences and he is presently in charge of the course of Pharmacology (Degree in Pharmaceutical Biotechnology) and the course of Applied Pharmacology (Degree in Pharmacy).

He is author of 145 papers on peer review journals and 21 chapters of books or Congress proceedings (H index = 40). He is member of different scientific societies and he is recipient of grants from Italian Agencies (Ministry of University and Ministry of Health), foundations (NARSAD, CARIPOLO) and European Union (ERANET).

His research is primarily devoted to molecular psychiatry and neuropsychopharmacology. Within this context, major goals of his studies are:

- Understand how genes and adverse early life experiences may enhance the vulnerability to psychiatric disorders, such as depression, schizophrenia and autism.
- Investigate and characterize the molecular effects of stress and its impact on psychopathology.
- Characterize the contribution of epigenetic mechanisms for long-term dysfunction in psychiatric disorders.
- Investigate the role for neurotrophic mechanisms in long-term brain dysfunction and characterize the regulatory mechanisms for their production and function within the central nervous system.
- Analyze the molecular mechanisms underlying the action of psychotropic drugs.

# Speakers' Curricula Vitae

International Conference  
**Memory in the  
Diseased Brain**  
27 January 2015 – Casina Pio IV – Vatican City

## PHILIPPE H. ROBERT

### POSITION TITLE

PU-PH - Professor of Psychiatry, Director of the Nice Memory Center & EA CoBTeK

### ORGANISM

C.H.R.U. de Nice - Université Nice Sophia Antipolis

### EDUCATION

Philippe Robert completed his medical studies at the University of Nice Sophia Antipolis in 1981, and received a PhD in Life Sciences in 1996 from the University Pierre et Marie Curie, Paris. A native of Nice, he is Professor of Psychiatry at the Nice School of Medicine, Director of the Nice Memory Centre for Care and Research (CMRR), which is one of the 27 official French Memory Centers merging competency from gerontology, neurology and psychiatry.

### CURRENT POSITIONS

He is in charge of the French National Alzheimer data bank national coming from the 400 French Memory consultations. Philippe Robert teaches psychological medicine and psychiatry, and psychogeriatric for the geriatric specialization degree. Philippe Robert is also director of the Cognition, Behavior & Technology Unit (CoBTeK) at the Nice Sophia-Antipolis and president of the association Innovation Alzheimer (IA). This very important research field is related to the CoBTeK unit, which aims to develop and transfer new technologies, developed for the benefit of clinical medicine and most particularly elderly subjects and others patients suffering from neuropsychiatric / neurodevelopmental disorders. He is also Major scientific articles and book chapters that he has authored cover topics including memory processes in depression, schizophrenia; behavioral and psychological symptoms of dementia (BPSD); the use of functional brain imaging for the diagnosis of early Alzheimer's disease (AD); and the understanding and treatment of apathy and the use of new technologies for diagnosis and stimulation.

### ONGOING RESEARCH AND CLINICAL PROGRAM

International collaboration and European Commission  
2011-2014: FP7: Dem@Care / FP7 : VERVE / FP7 InMinDD.

French Ministry of Health and Research program  
2009-2014: Az@game: serious game & AD: Investment for the future e-health program of the ministry of Industry.

Health General Direction program and other national agency  
2008-2014: The Nice CMRR is in charge within the Alzheimer national plan of the development and diffusion of the electronic file for all the French memory consultation (400).



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International Conference  
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## PAOLO MARIA ROSSINI

Born in Rome on 9 June 1949. Honours in Medicine (Catholic University of Rome, July 1974).

1974-1978	Postgraduate course as a Resident in Neurology.
1978-1984	Assistant Professor in 1978 at the University of Chieti.
1980-1982	In USA, collaborating with Roger Cracco at SUNY.
1985-1990	Associate Professor at the University of Rome "Tor Vergata".
1990-200	Chairman of the Department of Neurology at the Fatebenefratelli Hospital "San Giovanni Calibita" of Rome.
1989	Visiting Professor at the University of Irvine (California).
1995-2003	Editor-in-Chief of "Electroencephalography and Clinical Neurophysiology" (later Clinical Neurophysiology).
1997-2007	Scientific Director of the Scientific Institute on Dementia and Psychiatry recognized by the Italian Ministry of Health.
2000-2010	Full Professor of Clinical Neurology at the Faculty of Medicine at the University of Campus Biomedico in Rome.
2003	Member of the Italian Superior Council of Health.
2001-2003	President of the Italian Society of Clinical Neurophysiology.
2005-2008	Chairman of the European Chapter of the International Federation of Clinical Neurophysiology (E.C.-I.F.C.N.).
2008	Member of national Italian Commission for biomedical research.
2009	Member of National Committee for Biosafety, Biotechnology & life Sciences.
2011-2013	Vice-Chair of the Joint Programming Initiative of the EU on Demographic Changes.
2014-present	Chair JPI More Years Better Lives.
2010-2014	President of International Federation of Clinical Neurophysiology.
2011-present	Chairman Institute of Neurology, Catholic University of Rome including 45 academic positions, 20 hospital Medical Doctors, 29 Residents in neurology, 15 PhD in Neurosciences.

Author of a large number published scientific studies among which more than 560 listed in Pub Med with more 2500 point of I.F. and more than 25,500 citations, in the fields of neuroanatomy, experimental neurophysiology, clinical neurophysiology, clinical neurology and clinical neuropharmacology, on 47 different journals reviewed in the Med-line directory. H-Index of 82 in Google Scholar, 69 in Scopus. Associate Editor of Restorative Neurology & Neurorehabilitation, Neurological Sciences, Clinical Neurophysiology. Ad Hoc Reviewer for Science translational Medicine, Brain, Neurology, Annals of Neurology, Current Biology, J. Neuroscience, Neuroscience, Eur. J. Neuroscience, Neurosci. Lett., Exp. Neurology, Brain Res., Neurolmage, Human Brain Mapping, Muscle & Nerve, Clinical Neurophysiology, Stroke Cortex, J. Neurophysiol etc. Project reviewer for Russian, Israel, Icelandic, French, German, Finnish, Austrian, The Netherland, Italian research ministries and national research councils as well as for several international research foundations, including the Wellcome Trust and Telethon. Present research fields include: brain plasticity and connectivity in healthy adult brain and following brain lesions as well as during aging, TMS in cognitive sciences, neurophysiology of aging brain and of dementias, integrated brain functional imaging.



## MARCELO SÁNCHEZ SORONDO

Date and place of birth: 8 September 1942, Buenos Aires, Argentina  
Appointment to the Academy: 5 October 1998  
Scientific disciplines: Theology and Philosophy  
Academic title: Professor of the History of the Philosophy

### **MOST IMPORTANT AWARDS, PRIZES AND ACADEMIES**

**Academic Appointments:** Lecturer in the History of Philosophy (1976-82) and Full Professor (1982-98), Pontifical Lateran University; Dean of the Faculty of Philosophy, Pontifical Lateran University (1987-96); Professor of the History of Philosophy, Libera Università Maria SS. Assunta (1998-); Ordained Bishop by His Holiness John Paul II on 19 March 2001.

**Awards:** Cavaliere di Gran Croce, Italy (1999); Officier de la Légion d'honneur, France (2000), Grão Mestre da Ordem de Rio Branco, Brazil (2004); Official of the Republic of Austria (2004); Knight of the Republic of Chile (2006); Francesco Vito Award, Univ. Cattolica del Sacro Cuore, Milan (2001); Légion d'honneur, France (2002); Neruda Prize, Chile (2004); Grão Mestre da Ordem de Rio Branco, Brazilian Embassy to the Holy See (2004); "Bernardo O'Higgins" Grand Officer, Chile (2005); Award of the International Association of Catholic Doctors (2010).

**Academies:** Pontifical Academy of St Thomas Aquinas (1989) and Secretary Prelate (1999-); Chancellor, Pontifical Academy of Sciences (1998-); Chancellor, Pontifical Academy of Social Sciences (1998-); Member of the Accademia dei Georgofili (2008); Member of the Accademia Italiana del Vino (2010).

### **SUMMARY OF SCIENTIFIC RESEARCH**

My early work centred around an innovative examination of the primary function of the idea of participation in the core theological approach of St. Thomas Aquinas, especially with regard to the crucial point of the question of the "participation (of man) in the divine nature" (2 Pt 1:4).

The main and new conclusion was that man, because he is free, i.e. *causa sui*, his own cause in the order of the re-creation not only of his own growth but also of the communication of divine grace to another human being, to a "you" who freely wants that grace. As a subsequent follower of the contemporary philosophical current which seeks the "rehabilitation" of Aristotle, I emphasized that the "Stagirite" was the first to expound a positive notion of spiritual reality beginning with the human experience of superior activities such as feeling, thinking, wanting and enjoying. Aristotle did this through his meta-categories of power and energy which, although they serve initially to explain movement, subsequently allow a metaphysical explanation of the living human subject, of the suffering and acting "self" – a question discussed in detail by modern philosophy. Drawing upon the most recent developments in critical research into the structure of the thought of Aristotle (N. Hartman, P. Ricoeur and my teacher C. Fabro), I examined the different interpretations of this philosopher, especially those propounded during the medieval period by Thomas Aquinas and during the modern era by Hegel. In his *Encyclopaedia* (§ 482) Hegel rightly observes that no concept has been more subject to misunderstanding than that of freedom, which expresses the essence of the spirit. This was the new anthropological idea that the classical world, including Aristotle, was light years away from. For this reason, I have recently argued, "realised freedom" or freedom achieved by the truth (John Paul II) became the new criterion for the hermeneutics of history, culture and religions. I also proposed that realised freedom, as a real quality of the human being and not mere potentially, should be the criterion to be employed in the analysis of Christian history.

## STEFANO MARIA ZUCCARO

Prof. Stefano Maria Zuccaro was born in Rome in 1949.

### **EDUCATION**

Medical degree University of Rome in 1975 (*magna cum laude*)  
Specialty Geriatrics and Gerontology, Cardiology Residency Chief of Geriatrics, Oncology and Broncopneumology Departments of the Ospedale Israelitico of Rome.  
Health Officer of the State of Vatican City and physician of the Salesian Community of the Vatican.

### **CLINICAL INTERNSHIPS AND ACADEMIC APPOINTMENTS**

1975-1977	3rd Clinic of Internal Medicine of Rome University
1977-1980	Medical Assistant, Ospedale Addolorata of Rome
1980-1985	Medical Assistant, Ospedale Israelitico of Rome
Since 1985	Director of Geriatrics Department of the Ospedale Israelitico of Rome
Since 2005	he is Chief of the Alzheimer Unit of the ASL RM D.

In 1990 he was elected member of the Board of the Italian Society of Hospital Geriatrics – SIGOs, in 1994 National Secretary and from 2002 to 2006 President of this Society. In 2010 he has been nominated Honorary President of SIGOs.

1980-1992 he was Medical Assistant at the Health Services Direction of Vatican City and he is still Health Officer of this State. 1996-2004 Adjunct Professor of the Specialty School of Geriatrics and Gerontology of the University of Rome "La Sapienza". Since 2009 he is member of the Health Ministry Commission "Palliative Care and Pain Therapy" and of the Geriatric Working Group created by the Italian Agency for Drugs.

Since 2006 he is member of the Ethical Committee of the IRCCS San Raffaele and Ospedale Israelitico of Rome.

Prof. Zuccaro attended as speaker and chairman in more than 100 International and National Meetings.

From 2002 to 2006 he was Editor of "Geriatrics" Edizione CESI.

He has published more than 50 scientific papers.

In cooperation with Prof. Massimo Palleschi he wrote four books on Geriatrics (Geriatrics Ed. SEU; Geriatrics rivoluzione nella sanità e negli ospedali Ed. CESI; Rapporto sulla cronicità in Italia Ed. CESI; Linee guida di Terapia Geriatrica Ed. CESI).





CENTRO STUDI  
Achille e Linda Lorenzon

#### VENUE

The Conference will be held at:  
Casina Pio IV  
Vatican City

#### ORGANIZING SECRETARIAT

OIC srl - Organizzazione Internazionale Congressi



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