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

ORGANIZING SECRETARIAT
OIC srl - Organizzazione Internazionale Congressi
Viale G. Matteotti, 7
50121 Florence, Italy
Tel. +39 055 5035309
Fax +39 055 5001912
g.intrieri@oic.it

THE PONTIFICAL ACADEMY OF SCIENCES
International Conference
Memory in the Diseased Brain
27 January 2015 – Casina Pio IV – Vatican City

Special thanks for the contribution to

VENUE
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Index

Introduction

Program

List of Speakers

Speakers’ Curricula Vitae

Page 3

Page 4

Page 5

Page 6
Introduction

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

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

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

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

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

<table>
<thead>
<tr>
<th>Chairman: Paolo M. Rossini (Rome, I)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9:30 – 10:00</strong> OPENING LECTURE: WHAT IS MEMORY</td>
</tr>
<tr>
<td><em>Eric R. Kandel (New York, USA)</em></td>
</tr>
<tr>
<td>Nobel Prize for Medicine 2000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chairman: Roberto Bernabei (Rome, I) Gabriele Miceli (Trento, I)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10:00 – 10:30</strong> THE CLINICAL NEUROPSYCHIATRY OF MEMORY DISORDERS</td>
</tr>
<tr>
<td><em>Michael D. Kopelman (London, UK)</em></td>
</tr>
<tr>
<td><strong>10:30 – 11:00</strong> THE IMPORTANCE OF VASCULAR CHANGES IN MEMORY DEFICITS: ALZHEIMER DISEASE AND VASCULAR DEMENTIA</td>
</tr>
<tr>
<td><em>Gabriel Gold (Geneva, CH)</em></td>
</tr>
<tr>
<td><strong>11:00 – 11:30</strong> COFFEE BREAK</td>
</tr>
<tr>
<td><strong>11:30 – 12:00</strong> MEMORY IS ON THE FIRST LINE OF ATTACK OF ALZHEIMER DISEASE</td>
</tr>
<tr>
<td><em>Bruno Dubois (Paris, F)</em></td>
</tr>
<tr>
<td><strong>12:00 – 12:30</strong> TREATMENT OF MEMORY DEFICITS IN NEURODEGENERATIVE DISEASES</td>
</tr>
<tr>
<td><em>Ezio Giacobini (Geneva, CH)</em></td>
</tr>
<tr>
<td><strong>12:30 – 13:00</strong> MEMORY DEFICITS IN PARKINSONIAN PATIENTS</td>
</tr>
<tr>
<td><em>Clive Ballard (London, UK)</em></td>
</tr>
<tr>
<td><strong>13:00 – 14:30</strong> LUNCH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chairman: Mario Maj (Naples, I) Stefano M. Zuccaro (Rome, I)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>15:00 – 15:30</strong> MEMORY AND COGNITIVE DYSFUNCTION IN DEPRESSION</td>
</tr>
<tr>
<td><em>Philippe H. Robert (Nice, F)</em></td>
</tr>
<tr>
<td><strong>15:30 – 16:00</strong> NEW UPDATES ON THE PHARMACOLOGICAL TREATMENT OF DEPRESSION, WITH REFERENCE TO MEMORY AND COGNITIVE DYSFUNCTION</td>
</tr>
<tr>
<td><em>Marco A. Riva (Milan, I)</em></td>
</tr>
<tr>
<td><strong>16:00 – 16:30</strong> MEMORY AND COGNITIVE DYSFUNCTION IN SCHIZOPHRENIA</td>
</tr>
<tr>
<td><em>Philip D. Harvey (Miami, USA)</em></td>
</tr>
<tr>
<td><strong>16:30 – 17:00</strong> COFFEE BREAK</td>
</tr>
<tr>
<td><strong>17:00 – 17:30</strong> MEMORY AGING AND BRAIN MAINTENANCE</td>
</tr>
<tr>
<td><em>Lars Bäckman (Stockholm, S)</em></td>
</tr>
<tr>
<td><strong>17:30 – 18:00</strong> THE ROLE OF COGNITIVE TRAINING AND EXERCISE IN THE PREVENTION OF MEMORY DISTURBANCES</td>
</tr>
<tr>
<td><em>Laura Fratiglioni (Stockholm, S)</em></td>
</tr>
</tbody>
</table>

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

| **18:00 – 18:45** GENERAL DISCUSSION |
List of Speakers

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

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
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.
Speakers’ Curricula Vitae

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, Neurosciences and Orthopaedics of the A. Gemelli University Hospital (2004-present).
Visiting professor at the Department of Community Health of Brown University School of Medicine, RI USA (2000-present).

MEMBERSHIPS

PUBLICATIONS AND PAPERS
Author of over 250 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
- 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 Consultor 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
- Consultor 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 Canter 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
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 (overlakare), 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 Wajlito och Eric Forsgrens prize for AD researcher - Umeå University
2010 The Sohleberg’s Nordic Prize in Gerontology
2010 Sofiahemmet–Research and Education prize in dementia research
2009 Karolinska Institutet Folksams 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

EZIO GIACOBINI

EDUCATION

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, Ill. 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.
Speakers’
Curricula Vitae

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.
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.
Speakers’
Curricula Vitae

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

ERIC R. KANDEL

DATE AND PLACE OF BIRTH
7 November 1929
Vienna, Austria

NATIONALITY
United States

EDUCATION

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
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).
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.
Speakers’ Curricula Vitae

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


Speakers’ Curricula Vitae

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
President of the European Society of Psychiatry (2003-2004).
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 École 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).
Speakers’
Curricula Vitae

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, CARIPLO) 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

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).
Speakers’
Curricula Vitae

PAOLO MARIA ROSSINI


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).
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.
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.
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.


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.
Speakers’
Curricula Vitae

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 Broncopenumology 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 “Geriatria” Edizione CESI.
He has published more than 50 scientific papers.
In cooperation with Prof. Massimo Palleschi he wrote four books on Geriatrics (Geriatria Ed. SEU; Geriatria rivoluzione nella sanità e negli ospedali Ed. CESI; Rapporto sulla cronicità in Italia Ed. CESI; Linee guida di Terapia Geriatrica Ed. CESI).
VENUE
The Conference will be held at:
Casina Pio IV
Vatican City

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