CURRICULUM VITAE

Name	**Pierre J. MAGISTRETTI**
Date of birth	September 30, 1952
Citizenship	Swiss
Marital status	Married to Christine E. Naville Three children: Ambroise (1984), Bérénice (1987) and Henri (1990)
Professional address	Brain Mind Institute, EPFL CH-1015 Lausanne (Switzerland) Division of Biological and Environmental Sciences and Engineering KAUST, Thuwal, 23955-6900 (Kingdom of Saudi Arabia) E-mail: pierre.magistretti@epfl.ch

EDUCATION

1982	**Doctor of Philosophy Degree in Biology** (Ph.D.), University of California at San Diego, (Advisors: Drs Floyd E. Bloom and Silvio Varon)
1979	**Doctorat en Médecine** (M.D.), University of Geneva
1977	**Diplôme Fédéral de Médecin,** University of Geneva **Educational Commission for Foreign Medical Graduates Examination**
1970	**Maturité Fédérale Type A** (Classical studies).

MAIN POSITIONS HELD

2012 -	**Distinguished Professor**, Division of Biological and Environmental Sciences and Engineering, KAUST, Thuwal
2005 -	**Professor,** Brain Mind Institute, Swiss Federal Institute of Technology (EPFL)
2004 – 2012	**Professor**, Center for Psychiatric Neuroscience, Department of Psychiatry University of Lausanne Medical School and Hospitals (UNIL-CHUV)
2008 - 2012	**Director**, Brain Mind Institute, Federal Institute of Technology (EPFL), Lausanne (Joint appointment with UNIL-CHUV)
2005 - 2008	**Co-Director**, Brain Mind Institute, Federal Institute of Technology (EPFL), Lausanne (Joint appointment with UNIL-CHUV)
2001 - 2003	**Chairman**, Department of Physiology, University of Lausanne Medical School (Co-Chairman in 2004)
1996 - 2000	**Vice-Dean** for Preclinical Departments, University of Lausanne Medical School
1988 - 2004	**Professor of Physiology**, University of Lausanne Medical School

MAIN FUNCTIONS OCCUPIED

2014 -	**President**, International Brain Research Organization (IBRO)
2010 – 2012	**Secretary General**, International Brain Research Organization (IBRO)
2004 – 2012	**Member**, Conseil national de la recherche (Scientific Council) Swiss National Science Foundation
2007-	**Chairman of the Scientific Advisory Board** of Centre d'Imagerie Biomédicale (CIBM), an Imaging Consortium of the Universities, University Hospitals of Lausanne and Geneva and of Ecole Polytechnique Fédérale de Lausanne
2002 -	**Member:** Board of Trustees, Human Frontier Science Program
2002 – 2006	**Chairman of the Board of Directors**, CIBM
2002- 2004	**Editor**, Brain Research Reviews
2002 – 2004	**President**, Federation of European Neuroscience Societies (FENS)
2002 -	**Vice Chairman**, European Dana Alliance for the Brain (EDAB)
2001 – 2002	**Chairman**, Council of Scientists, Human Frontier Science Program
1997 – 1999	**President**, Swiss Society for Neuroscience
1993 – 2002	**Associate Editor**, Brain Research Reviews

MAIN HONORS AND AWARDS

2015	**Co-recipient with Drs David Attwell (UCL) and Marcus Raichle (Washington University) of the 2016 IPSEN Foundation Prize (Topic for 2016 : Neuroenergetics)**
2014	**Honorary member of the Chinese Association for Physiological Sciences**
2011	**Elected Member of the American College of NeuroPsychopharmacology (ACNP)**
2011	**Camillo Golgi Medal Award, Golgi Fondation**
2009	**Goethe Award for Psychoanalytic Scholarship, Canadian Psychological Association**
2007	**International Chair Professor, Collège de France, Paris, 2007-2008**
2002	**Recipient of the Emil Kraepelin Guest Professorship, Max Planck Institute für Psychiatry, Münich**
2001	**Elected Member of the Swiss Academy of Medical Sciences, ad personam**
2001	**Elected Member of Academia Europaea**
1997	**Recipient of the Theodore-Ott Prize of the Swiss Academy of Medical Sciences**

OTHER POSITIONS HELD

September 2002 -	**Professor** (as part of Universities of Geneva and Lausanne collaboration) Department of Psychiatry, University of Geneva Medical School
May 2000 – August 2001	**Interim Chairman**, Department of Cell Biology and Morphology, University of Lausanne Medical School
May 1996 - June 1998	**Chairman**, Interdepartmental Neuroscience Program, University of Lausanne
January 1995 - 2005	**Head**, Neurological Research Laboratory, Departments of Neurology and Physiology
October 1991 - October 1993	**Visiting Adjunct member**, The Scripps Research Foundation, Department of Neuropharmacology, La Jolla, California
January 1987 - 1988	**Recipient of a Career Development Award** from Fonds National Suisse de November la Recherche Scientifique (Program START: Swiss Talents for Academic Research and Teaching) **Chargé de Recherche,** Department of Pharmacology, University of Geneva
November 1987 - April 1988	**Visiting Investigator, Scripps** Clinic and Research Foundation, La Jolla, California
August 1986	**Privat-Docent,** Faculty of Medicine, University of Geneva
October 1982	**Maître-Assistant,** Department of Pharmacology, University of Geneva
September 1979 -	**Graduate Student, A.V**. Davis Center for Behavioral Neurobiology, September 1982 The Salk Institute and Department of Biology UCSD, San Diego
October 1977 - September 1979	**Assistant,** Department of Pharmacology, University of Geneva

MAIN GRANTS

2010 – 2018	**National Center for Competence in Research** « The synaptic bases of mental diseases ». Director of this multi-investigator center grant. http://www.nccr-synapsy.ch
2010 – 2016	Recipient of research grant from **Fonds National Suisse de la Recherche Scientifique** (31003A-130821) Plasticity of neuron-glia metabolic coupling: Relevance to behavior and neuroprotection
2008 – 2010	Continuation of a research grant from **Fonds National Suisse de la Recherche Scientifique** (3100A0-108336)
2007 - 2010	Co-Recipient of a research grant from **Fonds National Suisse de la Recherche scientifique** (3100A0-116220) Metabolic and functional imaging of neural activation
2007 – 2010	Co-Recipient of a research grant from **Fonds National Suisse de la Recherche scientifique** (3100A0-112101) The hypocretin system and the vulnerability to relapse for cocaine- and ethanol-seeking
2006 – 2009	Co-Recipient of a research grant from **Fonds National Suisse de la Recherche scientifique** (105311-107728) Neurosciences and psychiatry: images, techniques, clinic
2006 – 2008	Co-Recipient of a research grant from **Fonds National Suisse de la Recherche scientifique** (205320-112195) Ultra-high resolution tomopraphic imaging of cells and tissues by digital holographic microscopy: application to synaptic plasticity studies

2005 – 2008 Recipient of a research grant from **Fonds National Suisse de la Recherche scientifique** (3100A0-108336) Behavioral, cellular and molecular determinants of neurometabolic plasticity

2004 – 2008 Co-Recipient of a research grant from **Fonds National Suisse de la Recherche Scientifique** (3100A0-105773) Role of the C/EBP transcription factors in cocaine-induced molecular and cellular adaptations in brain reward systems, and in the phosphorylation of the coactivator CBP

2004 - 2007 Recipient of a research grant from **Fonds National Suisse de la Recherche scientifique** (3100A0-105804) Investigations of the cerebral metabolism using 11C-d-lactate, 11C-I-lactate and 11C-acetate

2004 – 2006 Co-recipient of a research grant from **Fonds National Suisse de la Recherche Scientifique** (205320-103885) Digital holographic microscopy applied to the measurement of 3D conformation and diellectric properties of biologic cells and tissues

2002 – 2006 Co-recipient of a research grant from **Fonds National Suisse de la Recherche Scientifique** (3200-068306) Ischemic brain injury: molecular mechanisms for protection and prevention

2002 – 2003 Co-recipient of a research grant from **Office fédéral de la formation professionnelle et de la technologie OFFT and EPFL** (CTI No. 6101.3 TNS)

2001 - 2004 Co-recipient of a research grant from **Fonds National Suisse de la Recherche Scientifique** (3100-064031.00) Drug-induced molecular and cellular adaptations in brain reward systems: role of the C/EBP transcription factors

1999 - 2004 Recipient of a research grant from **Fonds National Suisse de la Recherche Scientifique** (N˚ 3100-056930.99/2) Astrocyte-neuron metabolic coupling: short-term and long-term regulations

1999 – 2002 Co-recipient of a **European Community Grant (RTD actions**) Targeting astrocytes to disrupt inflammation-neurodegeneration coupling: application to Alzheimer's disease

1999 – 2002 Co-recipient of a research grant of **« Programme commun de recherche en génie biomédical »** from UNIL-UNIGE-EPFL-HUG-HCV on New microscopy techniques applied to functional imaging of living cells and tissues: application to clinical diagnosis

1998 - 2000 Co-recipient of a **European Communuty grant (Biotech 94 -98)** on Physiological function of PACAP/VIP receptors in the nervous system

1998 - 2000 Continuation of National Research Program grant (NRP 38, Diseases of the nervous system) from **Fonds National Suisse de la Recherche Scientifique**

1997 - 1999 Continuation, without application, of grant N˚ 3100-0405565.94, from **Fonds National Suisse de la Recherche Scientifique**

1996 Recipient of a grant from **"Roche Foundation"**

1996 - 1998 Co-recipient (principal investigator) of a National Research Program grant NRP 38, Diseases of the nervous system) from **Fonds National Suisse de la Recherche Scientifique**

1995 Recipient of a grant from **"Sandoz Foundation"**, for post-doctoral salary

1995 - 1998 Recipient of a grant from **Price Foundation**, "Brain energy metabolism in anorexia nervosa"

1994 - 1997 Recipient of a research grant from **Fonds National Suisse de la Recherche Scientifique** (N˚ 3100-0405565.94)

1994 - 1998 Recipient of a research grant from **Laboratoires Lafon, Paris**

1992 - 1993 Continuation, without application, of grant N˚ 31-26427.89, from **Fonds National Suisse de la Recherche Scientifique**

1991	Recipient of a research grant from **GLAXO Institute for Molecular Biology**
1989 - 1992	Recipient of a research grant from **Fonds National Suisse de la Recherche Scientifique** (N° 31-26427.89)
1988	Recipient of a research grant of **"Société Académique de Genève"** and **"Fondation Roche"**for a collaboration with the **Division of Preclinical Neuroscience and Endocrinology, Scripps Clinic and Research Foundation**, La Jolla, California
1989	Recipient of a grant from the **"Sandoz Foundation"** for the purchase of an HPLC system
1987 - 1988	Recipient of a research grant of **Fonds National Suisse de la Recherche Scientifique, START (Swiss Talents for Academic Research and Teaching)** (N° 3.347-0.86)
1986	Recipient of a research grant of **"Centre de Recherches Médicales Carlos et Elsie De Reuter"** (N° 64)
1986 – 1989	Recipient of a research grant of **Fonds National Suisse de la Recherche Scientifique** (N° 3.357-0.86)
1983 - 1986	Recipient of a research grant of **Fonds National Suisse de la Recherche Scientifique** (N° 3.423-0.83)

FELLOWSHIPS

September 1980 - June 1982	Bourse de **Jeune Chercheur Avancé** du Fonds National Suisse de la Recherche Scientifique
September 1979 – August 1980	Bourse de **Jeune Chercheur Débutant** du Fonds National Suisse de la Recherche Scientifique

FIELDS OF RESEARCH

- **Cellular and molecular bases of brain energy metabolism**
- **Behavioral, cellular and molecular determinants of neuronal and glial plasticity**
- **Energy metabolism in neuropsychiatric disorders**
- **Cellular and molecular bases of functional brain imaging**
- **Functions of glia**
- **Regulation of gene expression in the brain**
- **Neurotransmitters in the brain : Localization, Release, Cellular actions**
- **Dialogue between neuroscience and psychoanalysis**

MAIN LECTURES (since 2001)

2016

- **Department of Physiology**, University of California, San Francisco, Invited Speaker (Prof R. Swanson)
- **European College of Neuropsychopharmacology (ECNP) Workshop,** Nice (Keynote Speaker)
- **Metabolism in development and disease, Company of Biology Workshop,** Wiston House (Invited Speaker)
- **Workshop of the Italian Society of Pharmacology (SIF) on Neurodegeneration** , Catania (Keynote speaker)
- **Brain Bioenergetics, from Behavior to Pathology Symposium**, EPFL, (Invited Speaker)
- **Frontiers in Memory Research, NYU Symposium,** La Pietra, Florence, (Invited Speaker)
- **FENS Forum 2016, Special Lecture "IPSEN Foundation prize",** Copenhagen

- **Symposium : Glial Control of Brain Physiology and Pathology , 19th KSBNS meeting,** Seoul (Invited speaker)
- **Symposium on Molecular Basis of Brain Diseases and Bioenergetics**, Kyungpook National University Medical Center, Daegu (Invited speaker)
- **2nd FALAN Congress** , Buenos Aires, (Keynote lecture)
- **Symposium on Neuron-Glia interactions in Health and Disease,** Colonia del Sacramento, Uruguay (Invited speaker)
- **50th Anniversary of « Psychomotricité en Suisse romande »,** Geneva (Keynote lecture)
- **Genève, 18-20.11.2016**

2015

- **Biotechnology Centre,** TU Dresden (Prof C.V. Cannistraci)
- **World Federation of Nuerology**, Santiago, Chile, Invited Speaker
- **Center for Neural Sciences**, New York University, (Prof C. Alberini)
- **Center for Epigenetics and Metabolism**, University of California at Irvine, (Prof. P. Sassone-Corsi)
- **Gene Expression Laboratory**, The Salk Institute, (Prof J.C. Ispizua Belmonte)
- **Nestlé Institute of Health Sciences – EPFL Science Day**, Lausanne
- **Department of Neuroscience, King's College**, Keynote Speaker, 2015 Neuroscience Symposium
- **Dipartimento di Neuroscienze**, Università di Parma (Prof Giacomo Rizzolatti)
- **Institute of Molecular Medicine, University of Lisbon** (Prof Ana Sebastiao)
- **Department of Neuroscience**, **Karolinska Institute** (Prof Tomas Hokfelt)
- **Università degli Studi di Brescia,** International seminar on "Neuroscienze, psicoanalisi e perinatalità", (Prof Loredana Cena)
- **Cold Spring Harbor Asia Conference** "Glia: New Insights about Their Functions and Dysfunctions", Keynote Speaker

2014

- "**Astrocytes in health and neurodegenerative diseases" Biochemical Society and BNA, London,** Invited speaker
- **"Corps et développement psychique", 7 ème congrès de l'AEPEA, Psyche – Soma, Bruxelles,** Keynote speaker
- "**11th International Conference on Brain Energy Metabolism**", Helsinge, Invited speaker
- **Symposium in Honor of Torsten Wiesel**, Rockefeller University, Invited speaker
- **Annual Scientific meeting of King Abdullah International Medical research center (KAIMRC), Jeddah,** Invited speaker
- **Capital Medical University**, Beijing, Invited speaker (Prof Xiamin Wang)
- **Tsinghua University**, Beijing, Invited speaker (Prof Bai Lu)
- **Peiking University (PKU),** Beijing, Invited speaker (Prof Yun Wang)
- **Chinese Academy of Sciences**, Biophysics Institute, Invited speaker (Prof Zhang Lei)
- **Fudan University, Shanghai**, Invited speaker (Zhang Jiayi)
- **Institute of Neuroscience**, Shanghai, Invited speaker (Prof Mu Ming Poo)
- **24th meeting of the Cinese Association for Physiological Sciences**, Keynote speaker
- **Annual meeting of the Society for Neuroscience**, Washington, DC, Symposium speaker

2013

- **Gordon research Conference "Glia Biology : Functional Interactions among glia and neurons" Ventura,** Invited speaker
- "**Glia and Neurons: a symbiotic partnership**", **Brain Repair Center Spring School, Cambridge,** Invited speaker
- **European federation of Psychoanalysis, Basel**, Invited speaker
- **Gordon Research Conference** « **Oxidative stress and disease"**, **Les Diablerets,** Invited speaker
- **Scripps Research Institute, La Jolla, Invited Speaker (Prof G. Koob)**

- **Brain Energy 2013, Norwegian Academy of Sciences, Oslo,** Invited Speaker
- **16th Meeting of the European Society of developmental Psychology, Lausanne,** Keynote Speaker
- **The Brain Forum, Jeddah,** Keynote Speaker
- **Institut du Cerveau et de la moëlle (ICM), Paris,** ICM Conference series, Invited speaker **(Prof Y-Agid)**
- **Helmholtz Diabetes Center, Garching,** Invited speaker (Prof Matthias Tschöp)
- **IBRO College "Dynamic Imaging in Neuroscience", Valdivia,** Keynote speaker

2012

- **Scripps Research Institute, la Jolla,** Invited speaker
- **12th International Meeting on Advances in Alzheimer's Therapy, Stockholm,** Invited speaker
- **FENS Forum 2012 satellite Symposium "Multidisciplinary approaches to quantify astrocyte neuron signaling",** Invited speaker
- **20th World Congress of International Association for Child and Adolescent Psychiatry (IACAPAP), Paris,** Plenary Lecture

2011

- **IBRO School, Cape Town,** Invited Faculty
- **1st IBRO-Middle East Neuroscience Conference, Al Ain, UAE**
- **10th Conference of the Societies of Neuroscience of Africa, Addis Abeba**
- **Brain Research Institute, University of Zurich** (Prof Isabelle Mansuy)
- **Gordon Research Conference « Glial Biology », Ventura**
- **Swissnex Boston, Cambridge**
- **Mount Sinai School of Medecine, New York** (Prof C. Alberini)
- **New York Academy of Medecine**
- **Istituto Svizzero di Roma**
- **Gordon Research Conference « Cannabinoid Function in the CNS», Switzerland,** Keynote Lecture **Université Libre de Bruxelles** (Pr Delvenne)
- **Glial cells in (patho)physiology, International Society for Neurochemistry, Ljubljana, Slovenia**
- **Euroglia 2011, 10th European meeting on Glial Cells in Health and Disease, Prague**

2010

- **Public lecture sponsored by « La Caixa », Madrid**
- **Annual meeting of the Turkish Society for Neuroscience, Istambul,** Symposium speaker
- **Universita Politecnica delle Marche, Ancona** (Prof Conti)
- **Institut de Recherches en Ophthalmologie, Sion** (Prof Schorderet)
- **Istituto Svizzero, Venice** (Dr De Riedmatten)
- **Annual meeting of the UK Physiological Society, Manchester,** Symposium speaker
- **20th European Sleep Research Society Congress, Lisbon,** Symposium speaker
- **61st Meeting of the Italian Physiological Society, Varese,** Keynote speaker
- **Symposium on Sleep/wake, plasticity and neuroenergetics, Taormina**
- **6th International Forum for Psychoanalysis, Athens,** Symposium speaker
- **Zentrum fur Literatur und Forschung, "Freud and the Neurosciences", Berlin**
- **29th International Congress of Clinical Neurophysiology, Kobe,** Symposium speaker
- **Human Brain Research Center, Kyoto University, Kyoto** (Prof Fukuyama)
- **2e Congrès Français de Psychiatrie, Lyon,** Keynote speaker
- **Distinguished Seminar Series, Dept of Pharmacology and Neuroscience, University of Copenhagen**
- **2nd Conference on Glia Biology in Medicine, University of Alabama, Birmingham**
- **3e Journée Cogni-Psy de la Salpêtrière, Paris**

2009

- **Symposium « Synapse-Astrocyte Interactions », Strasbourg** (Dr Pfrieger)

- **International School for Advanced Studies, Trieste**, (Dr Torre)
- **Gordon Research Conference on « Glia Biology » , Ventura,** Panelist
- **« Celebrating the 150th anniversary of the Origin of species », « Les Treilles »**
- **PENS Training program « Sleep research and sleep medicine », Bertinoro**
- **Conférence « Paul Broca », Société des Neurosciences, Bordeaux**, Plenary lecture
- **Congress « Glia in Health and Disease », Paris**
- **Institut de Neurobiologie de la Méditerranée, Marseille,** (Dr Ben Ari)
- **Center for Imaging in Biomedicine, Lausanne,** (Prof Gruetter)
- **Department of Psychiatry, University of California San Diego,** (Dr Judd)
- **Université Pierre et Marie Curie** (Dr Cauli)

2008

- **Inaugural lecture, Collège de France, Paris**
- **Inaugural lecture, EPFL, Lausanne**
- **Series of 9 lectures on « Glial cells, neuroenergetics and neuropsychiatric disorders », Collège de France, Paris**
- **« Mind your Brain » Symposium, Lausanne**
- **100th meeting of the Swiss Neurological Society,** Plenary lecture
- **Symposium « Neurosciences et psychanalyse : une rencontre autour de l'émergence de la singularité », Collège de France, Paris**
- **Club cellules gliales, Paris**
- **Ecole Normale Supérieure, Paris** (Pr. A. Prochiantz)
- **Institute for Research in Biomedicine, Barcelona** (Prof. J. Guinovart)
- **Colloque des neurosciences cliniques, CHUV,** (Prof. Levivier)
- **Symposium on « Neurosciences and Society », FENS**
- **European Science Open Forum, Barcelona,** Pleanary lecture
- **Gordon Research Conference on « Membrane transport proteins »", Il Ciocco**
- **Society for Neuroscience, Washington, Symposium speaker**
- **Department of Psychiatry, La Salpétrière, Paris,** (Prof D. Cohen)

2007

- **Ecole Normale Supérieure, Paris** (Prof Frackowiak)
- **12th Neural workshop, Verbier**
- **Acettepe University, Ankara** (Prof T. Kalgara)
- **Wallenberg Symposium, Stockholm**
- **International Meeting of ESCAP (European Society for Child and Adolescent Psychiatry), Florence**
- **VIII European Meeting on Glial Function, London,** Plenary lecture
- **Glaxo Smith Kline, Harlow**
- **Association Psicoanalitica de Argentina, Buenos Aires**
- **London Psychoanalytical Society, London**
- **Yale University, Department of Physiology (**Profs J. Hoffmann and R. Shulman**)**
- **Mount Sinai School of Medicine, Department of Neuroscience (**Prof C. Alberini**)**
- **Phyloctetes Center, New York Psychoanalytical Society, New York (**Dr Nersessian**)**
- **University of Pennsylvania, Department of Pediatrics (**Prof M. Yudkoff**)**
- **University of Ancona, Annual Lecture, Department of Neuroscience (**Prof F. Conti**)**

2006

- **University of Arhus, « Brain Storm 2006, a Symposium in honor of Albert Gjedde »**
- **Ellison Foundation Workshop « Biological assessment on mental processes – both conscious and unconscious », New York**
- **Centre Intégratif de Génomique, Lausanne,** (Prof Mehdi Tafti)
- **Max-Plank Institute for Biological Cybernetics, Tübingen,** (Prof N. Logothetis)

- **Symposium « From brain to ethics: what is new under the skull »**
- **Annual Distinguished Lecture, University of Edinburgh** (Prof R. Morris)
- **Cellular and Molecular Neurobiology of Mental Illness, Giessbach**
- **Collège de France, Paris, Chaire de Neuropharmacologie** (Prof J. Glowinski**)**
- **University of Liège, Center for Neuroscience** (Prof J Schoenen)
- **Gordon Research Conference « Brain energy metabolism and blood flow », Magdalen College, Oxford**
- **37th Annual Consference ISPNE, Leiden**
- **Journées Françaises de Radiologie, Paris**
- **Nestlé International Symposium, Lausanne**

2005

- **Glaxo Smith Kline, London** (Dr Lefkos Middelton)
- **Service Hospitalier Frédéric Joliot – Commissariat à l'Energie Atomique, Orsay** (Dr Gilles Bonvento)
- **18th meeting of the British Neuroscience Association – « The Wolstencroft Lecture** »
- **University of Pennsylvania** (Dr J.Detre and Dr B. Chance)
- **FASEB Summer Conference on Glucose Transporter Biology**
- **International Society for Neurochemistry (Innsbruck)**
- **Presidential lecture, Polish Neuroscience Society, Crakow**
- **J. of Experimental Biology Sympoisum on « Phenotypic Plasticity », Cambridge**
- **Ramòn Areces Foundation Symposium « Glial cells as key elements for brain function, protection and regeneration, Madrid**
- **American College of Neuropsychopharmacology, Hawaii, Plenary lecture**

2004

- **Winter Conference on Brain Research, Copper Mountain**
- **University of Milano – Department of Pharmacology** (Professor A. Maggi)
- **Ecole Normale Supérieure, Paris** (Professor Alain Prochiantz).
- **Douglas Hospital Research Center, McGill University, Montreal** (Professor R. Quirion)
- **CINP Meeting, Paris**
- **Gordon Research Conference « Cerebral metabolism and blood flow », Colby College**
- **Swiss Academy of Medical Sciences: « Symposium on Neuroethics »**

2003

- **Brain & Mind Institute, Federal Institute of Technology, Lausanne (EPFL),** (Prof. Henry Markram)
- **International School on Magnetic Resonance and Brain Function**: **New NMR strategies for brain investigation, Ettore Majorana Foundation, Erice, Italy**
- **Symposium « From Molecules to Mind », Yale University**. **New Haven**
- **Symposium « Monitoring Molecules in Neuroscience », Karolinska Institute, Stockholm**
- **IBRO Satellite Symposium « Brain communication : Synaptic vs Volume Transmission », Prague**
- **VI European Meeting on « Glial function in health and disease », Berlin**
- **Festvortrag (Opening lecture) at the 23rd meeting of « Arbeitsgemeinschaft Neuropharmakologie und Psychopharmakologie (AGNP) », Munich**
- **High-field MR Imaging and Spectroscopy Workshop, University of Minnesota**
- **Symposium on « Neuronal communication, neurotransmitters and aging », Ramon Areces Foundation, Madrid**

2002

- **VII International Stockholm/Springfield Symposium on « Advances in Alzheimer's Disease Therapy »,** Geneva
- **Swiss federal Institute of Technology, ETHZ, Behavioral N eurobiology Laboratoty** (Prof J. Feldon)

- **Mc Govern Institute for Brain research, MIT, Cambridge**
- **Society for Biological Psychiatry Annual Meeting, Philadelphia**
- **Instituto Ramon y Cajal, Madrid**
- **Max Planck Institute for Psychiatry, Munich** (Prof Holsboer)

2001

- **World Economic Forum, Davos**
- **Abteilung fuer Allgemeine Zoologie, FB Biologie,** Kaiserslautern University, (Prof J. W. Deitmer)
- **Department of Neurology, Dusseldorf University**, (Prof J. Freund)
- **INSERM U 289, Hôpital Salpétrière, Paris,** (Prof Y. Agid)
- **INSERM U 334, Service Hospitalier Frédéric Joliot, Orsay,** (Dr S. Dehaene)
- **Brain Energy Metabolism meeting, Trondheim**
- **German Society for Neuroscience, Gottingen**
- **American Academy of Sleep Medicine meeting, Chicago**
- **Mc Donnell-Pew Centre for Cognitive Neuroscience, Oxford,** (Prof C. Blakemore, Dr Z. Molnar)
- **IUPS meeting, Christchurch, New Zealand**
- **Montreal Neurological Institute, Mc Gill University, Montreal**
- **University of Manitoba, Grass Lecturer**
- **Merck Research Laboratories, La Jolla, California**

OTHER HONORS, AWARDS

- **Paul Broca Lecture,** Société des Neurosciences, May 2009
- **Elected member of the Honorable Company of the Edinburgh Golfers,** 2005
- **Mc Donnel Visiting Scholar**, Washington University School of Medicine, November 2000
- **Talairach Lecture,** « Functional Mapping of the Human Brain meeting», San Antonio, June 2000

SOCIETIES

- **Federation of European Neuroscience Societies (FENS)** (President 2002 – 2004)
- **International Society of Cerebral Blood Flow and Metabolism** (Board of Directors, 1999 - 2003)
- **Société de Neuroendocrinologie Expérimentale** (Member of the Council, 1994 - 1997)
- **Société des Neurosciences, France** (Member of the Council, 1993 - 2000)
- **Société Suisse de Psychiatrie Biologique** (Member of the Council, 1992 - 1995)
- **Société Suisse de Pharmacologie et de Toxicologie**
- **European Neuroscience Association**
- **Society for Neuroscience** (USA)
- **Société Suisse de Physiologie**

EDITORIAL BOARDS

- **Experimental Biology and Medicine (2009 - 2010)**
- **Frontiers in Neuroenergetics (2008 -)**
- **Experimental Neurology (2003 -)**
- **Glia (2001 - 2014)**
- **Neurochemistry International (1989 - 1997)**
- **European Neurology**
- **Developmental Neuroscience**

- **Molecular Psychiatry**
- **NeuroSignal**
- **Discussions in Neuroscience (Series Editor, 1984 - 995)**
- **OPAL, Computer-Assisted Teaching Modules (Series Editor)**

OTHER COMMITTEES – BOARDS

- **President-elect, Federation of European Neuroscience Societies (FENS)** (2000 - 2002)
- **Chairman**, PET-Cyclotron Committee, (University Hospitals of Geneva and Lausanne Medical Schools)
- (September 2000 -)
- **Vice-chairman, Council of Scientists Human Frontier Science Program** (1999 - 2001)
- **External Advisory Board, Centre for Magnetic Resonance Research, University of Minnesota** (1999 -)
- **Advisory Board, Department of Clinical Research, University Hospital of Basel** (1998 - 1999)
- **Advisory Board, Institut Fédératif de Recherche 47, University of Caen** (1998)
- **Executive Committee, European Dana Alliance for the Brain (**1997 -)
- **Advisory Board, Institut Fédératif de Recherche 52, Collège de France, Paris** (1996)
- **Vice-president, Swiss Society for Neuroscience** (1995-1997)
- **Swiss Society for Muscular Dystrophy, Member of the Scientific Committee** (1995 -)
- **Vice-Chairman, Ligue Suisse pour le Cerveau,** (1995 -)
- **Advisory Board, Institut Fédératif de Recherche en Neurosciences, University of Bordeaux** (1995 -)
- **Human Frontier Science Program, Member of the Review Committee (**1994 - 1996)
- **Advisory Board, Price Foundation** (1994 -)
- **Chairman, Association for the "Decade of the Brain in Switzerland"** (1993 -)
- **Fondation Bettencour-Schuler, Member of the Scientif Board** (2007 -)
- **Fondation Puccini, Member of the Board** (1993 -)
- **Medical Research Council of Canada, Member of the Review Committee, Neurosciences A** (1992 - 1995)
- **Member of several ad hoc committees of the Medical School of Lausanne University and EPFL**
- **Chairman, Committee for Basic and Clinical Neuroscience, Pfizer Foundation** (1998 -)

LIST OF PUBLICATIONS

THESES

Doctorat en Médecine

Etude de la liaison spécifique du ^{3}H-spiroperidol dans la fraction membranaire de la rétine de mammifère: son intérêt pour l'évaluation de l'affinité dopaminergique des substances psychotropes.

Thèse N° 3765, *Faculté de Médecine de l'Université de Genève,* Juillet 1979

Doctor of Philosophy Degree in Biology

Vasoactive Intestinal Polypeptide: a regulator of cellular homeostasis in cerebral cortex.

Ph.D. Thesis, Department of Biology, *University of California at San Diego, USA*, September 1982

Thèse d'Habilitation au Titre de Privat-Docent

Biochemical approaches to the study of peptide actions in the central nervous system. *Faculté de Médecine de l'Université de Genève*. Août 1986.

BOOKS

- Ansermet F, Magistretti PJ, **Les énigmes du plaisir.** *Odile Jacob, Paris, 2010*

Translations in :

Spanish **Los enigmas del placer.** *Katz Editores, Buenos Aires, 2011*
Italian **Gli enigmi del piacere.** *Bollati Boringhieri, Torino, 2012*

- Ansermet F, Magistretti PJ, **A chacun son cerveau : plasticité neuronale et inconscient.** *Odile Jacob, Paris, 2004*

Translations in:

Italian **A ognuno il suo cervello: plasticità neuronale e inconscio.** *Bollati Boringhieri, Torino, 2008*
Spanish **A cada cual su cerebro: plasticidad neuronal e inconsciente.** *Katz Editores, Buenos Aires, 2006*

English **Biology of freedom: Neural Plasticity, Experience, and the Unconscious.**
USA: Other Press, New York, 2007
UK: Karnac, London, 2007
Japanese **脳と無意識：ニューロンと可塑性.** *Seido-sha, Tokyo, 2006*
German **Die Individualität des Gehirns : Neurobiologie und Psychoanalyse.** *Suhrkamp, Frankfurt am Main, 2005*

ORIGINAL ARTICLES

223 - Peripheral administration of lactate produces antidepressant-like effects.
Carrard A, Elsayed M, Margineanu M, Boury-Jamot B, Fragnière L, Meylan EM, Petit JM, Fiumelli H, **Magistretti PJ***, Martin JL*. **Mol Psychiatry. 2016 Dec 6. doi: 10.1038/mp.2016.237.**
***Co-last authors**

222 - Suzuki K, Tsunekawa Y, Hernandez-Benitez R, Wu J, Zhu J, Kim EJ, Hatanaka F, Yamamoto M, Araoka T, Li Z, Kurita M, Hishida T, Li M, Aizawa E, Guo S, Chen S, Goebl A, Soligalla RD, Qu J, Jiang T, Fu X, Jafari M, Esteban CR, Berggren WT, Lajara J, Nuñez-Delicado E, Guillen P, Campistol JM, Matsuzaki F, Liu GH, **Magistretti P**, Zhang K, Callaway EM, Zhang K, Belmonte JC. *In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration.* **Nature. 2016 Nov 16. doi: 10.1038/nature20565. [Epub ahead of print]**

221 - Preissmann D, Charbonnier C, Chagué S, Antonietti JP, Llobera J, Ansermet F, **Magistretti PJ.** *A Motion Capture Study to Measure the Feeling of Synchrony in Romantic Couples and in Professional Musicians.* **Front Psychol. 2016 Oct 27;7:1673**

220 - Gao V, Suzuki A, **Magistretti PJ**, Lengacher S, Pollonini G, Steinman MQ, Alberini CM. *Astrocyte β2-adrenergic receptors mediate hippocampal long-term memory consolidation.* **Proc Natl Acad Sci U S A. 2016 Jul 26;113(30):8526-31. doi: 10.1073/pnas.1605063113**

219 - Lavoie S, Steullet P, Kulak A, Preitner F, Do KQ, **Magistretti PJ.** *Glutamate Cysteine Ligase-Modulatory Subunit Knockout Mouse Shows Normal Insulin Sensitivity but Reduced Liver Glycogen Storage.* **Front Physiol. 2016 Apr 21;7:142. doi: 10.3389/fphys.2016.00142.**

218 - Baud MO, Parafita J, Nguyen A, **Magistretti PJ**, Petit JM. *Sleep fragmentation alters brain energy metabolism without modifying hippocampal electrophysiological response to novelty exposure.* **J Sleep Res. 2016 Oct;25(5):583-590. doi: 10.1111/jsr.12419**

217 - Meylan EM, Halfon O, **Magistretti PJ**, Cardinaux JR. *The HDAC inhibitor SAHA improves depressive- like behavior of CRTC1-deficient mice: Possible relevance for treatment-resistant depression.* **Neuropharmacology. 2016 Aug;107:111-21. doi: 10.1016/j.neuropharm.2016.03.012**

216 - Llobera J, Charbonnier C, Chagué S, Preissmann D, Antonietti JP, Ansermet F, **Magistretti PJ.** *The Subjective Sensation of Synchrony: An Experimental Study.* **PLoS One. 2016 Feb 12;11(2):e0147008. doi: 10.1371/journal.pone.0147008**

215 - Mächler P, Wyss MT, Elsayed M, Stobart J, Gutierrez R, von Faber-Castell A, Kaelin V, Zuend M, San Martín A, Romero-Gómez I, Baeza-Lehnert F, Lengacher S, Schneider BL, Aebischer P, **Magistretti PJ**, Barros LF, Weber B. *In Vivo Evidence for a Lactate Gradient from Astrocytes to Neurons.* **Cell Metab. 2016 Jan 12;23(1):94-102**

214 - Calì C, Baghabra J, Boges DJ, Holst GR, Kreshuk A, Hamprecht FA, Srinivasan M, Lehväslaiho H, **Magistretti PJ**. *Three-dimensional immersive virtual reality for studying cellular compartments in 3D models from EM preparations of neural tissues.* **J Comp Neurol. 2016 Jan 1;524(1):23-38**

213 - Quintard H, Patet C, Zerlauth JB, Suys T, Bouzat P, Pellerin L, Meuli R, **Magistretti PJ**, Oddo M. *Improvement of Neuroenergetics by Hypertonic Lactate Therapy in Patients with Traumatic Brain Injury Is Dependent on Baseline Cerebral Lactate/Pyruvate Ratio.* **J Neurotrauma. 2015 Dec 15. [Epub ahead of print]** **PMID: 26421**

212 - Tadi M, Allaman I, Lengacher S, Grenningloh G, **Magistretti PJ**. *Learning-Induced Gene Expression in the Hippocampus Reveals a Role of Neuron – Astrocyte Metabolic Coupling in Long Term Memory.* **PLoS One. 2015 Oct 29;10(10):e0141568**

211 - Boury-Jamot B, Carrard A, Martin JL, Halfon O, **Magistretti PJ***, Boutrel B.* *Disrupting astrocyte-neuron lactate transfer persistently reduces conditioned responses to cocaine.* **Mol Psychiatry. 2015 Oct 27. doi: 10.1038/mp.2015.157. [Epub ahead of print] *Co-last authors**

210 - Delacrétaz A, Preisig M, Vandenberghe F, Saigi Morgui N, Quteineh L, Choong E, Gholam-Rezaee M, Kutalik Z, **Magistretti P**, Aubry JM, von Gunten A, Castelao E, Vollenweider P, Waeber G, Conus P, Eap CB. *Influence of MCHR2 and MCHR2-AS1 Genetic Polymorphisms on Body Mass Index in Psychiatric Patients and In Population-Based Subjects with Present or Past Atypical Depression.* **PLoS One. 2015 Oct 13;10(10):e0139155**

209 - Saigi-Morgui N, Vandenberghe F, Delacrétaz A, Quteineh L, Choong E, Gholamrezaee M, **Magistretti P**, Aubry JM, von Gunten A, Preisig M, Castelao E, Vollenweider P, Waeber G, Kutalik Z, Conus P, Eap CB, *Association of PCK1 with Body Mass Index and Other Metabolic Features in Patients With Psychotropic Treatments.* **J Clin Psychopharmacol. 2015 Oct;35(5):544-52**

208 - Kovács KA, Steinmann M, Halfon O, **Magistretti PJ**, Cardinaux JR, *Complex regulation of CREB-binding protein by homeodomain-interacting protein kinase 2.* **Cell Signal. 2015 Aug 4. pii: S0898-6568(15)00222-3**

207 - Arminjon M, Preissmann D, Chmetz F, Duraku A, Ansermet F, **Magistretti PJ**. *Embodied memory: unconscious smiling modulates emotional evaluation of episodic memories.* **Front Psychol. 2015 May 26;6:650. doi: 10.3389/fpsyg.2015.00650. eCollection 2015**

206 - Zeis T, Allaman I, Gentner M, Schroder K, Tschopp J, **Magistretti PJ**, Schaeren-Wiemers N, *Metabolic gene expression changes in astrocytes in Multiple Sclerosis cerebral cortex are indicative of immune-mediated signaling.* **Brain Behav Immun. 2015 Aug;48:313-25. doi: 10.1016/j.bbi.2015.04.013. Epub 2015**

205 - Shih PB, Yang J, Morisseau C, German JB, Zeeland AA, Armando AM, Quehenberger O, Bergen AW, **Magistretti P**, Berrettini W, Halmi KA, Schork N, Hammock BD, Kaye W, *Dysregulation of soluble epoxide hydrolase and lipidomic profiles in anorexia nervosa.* **Mol Psychiatry. 2015 Mar 31. doi: 10.1038/mp.2015.26. [Epub ahead of print]**

204 - Patet C, Quintard H, Suys T, Bloch J, Daniel R, Pellerin L, **Magistretti P**, Oddo M, *Neuroenergetic response to prolonged cerebral glucose depletion after severe brain injury and the role of lactate.* **J Neurotrauma. 2015 Mar 19. [Epub ahead of print]**

203 - Sotelo-Hitschfeld T, Niemeyer MI, Mächler P, Ruminot I, Lerchundi R, Wyss MT, Stobart J, Fernández-Moncada I, Valdebenito R, Garrido-Gerter P, Contreras-Baeza Y, Schneider BL, Aebischer P, Lengacher S, San Martín A, Le Douce J, Bonvento G, **Magistretti PJ**, Sepúlveda FV, Weber B, Barros LF, *Channel-mediated lactate release by K^+-stimulated astrocytes.* **J Neurosci. 2015 Mar 11;35(10):4168-78. doi: 10.1523/JNEUROSCI.5036-14.2015**

202 - Quteineh L, Vandenberghe F, Saigi Morgui N, Delacrétaz A, Choong E, Gholam-Rezaee M, **Magistretti P**, Bondolfi G, Von Gunten A, Preisig M, Castelao E, Vollenweider P, Waeber G, Bochud M, Kutalik Z, Conus P, Eap CB, *Impact of HSD11B1 polymorphisms on BMI and components of the metabolic syndrome in patients receiving psychotropic treatments.* **Pharmacogenet Genomics. 2015 May;25(5):246-58**

201- Jolivet R, Coggan JS, Allaman I, **Magistretti PJ**. Multi-timescale Modeling of Activity-Dependent Metabolic Coupling in the Neuron-Glia-Vasculature Ensemble. **PLoS Comput Biol**. 2015 Feb 26;11(2):e1004036. doi: 10.1371/journal.pcbi.1004036. eCollection 2015 Feb.

200 - Macias-Romero C, Didier ME, Jourdain P, Marquet P, **Magistretti P**, Tarun OB, Zubkovs V, Radenovic A, Roke S. *High throughput second harmonic imaging for label-free biological applications.* **Opt Express. 2014 Dec 15;22(25):31102-12**

199 - Morrison BM, Tsingalia A, Vidensky S, Lee Y, Jin L, Farah MH, Lengacher S, **Magistretti PJ**, Pellerin L, Rothstein JD. *Deficiency in monocarboxylate transporter 1 (MCT1) in mice delays regeneration of peripheral nerves following sciatic nerve crush.* **Exp Neurol. 2015 Jan;263:325-38.**

198 - Baud MO, **Magistretti PJ**, Petit JM. *Sustained Sleep Fragmentation Induces Sleep Homeostasis in Mice.* **Sleep. 2014 Oct 17. pii: sp-00289-14. [Epub ahead of print]**

197- Bouzat P, **Magistretti PJ**, Oddo M. *Hypertonic lactate and the injured brain: facts and the potential for positive clinical implications.* **Intensive Care Med**. 2014 Jun;40(6):920-1.

196 - Perreten Lambert H, Zenger M, Azarias G, Chatton JY, **Magistretti PJ**, Lengacher S. *Control of Mitochondrial pH by Uncoupling Protein 4 in Astrocytes Promotes Neuronal Survival.* **J Biol Chem. 2014 Nov 7;289(45):31014-28.**

195 – Yang J, Ruchti E, Petit JM, Jourdain P, Grenningloh G, Allaman I, **Magistretti PJ**. *Lactate promotes plasticity gene expression by potentiating NMDA signaling in neurons.* **Proc Natl Acad Sci, USA. Aug. 19;111(33):12228-33**

194 - Vianin P, Urben S, **Magistretti P**, Marquet P, Fornari E, Jaugey L. *Increased activation in Broca's area after cognitive remediation in schizophrenia.* **Psychiatry Res. 2014 Mar 30;221(3):204-9**.

193 - Bouzat P, Sala N, Suys T, Zerlauth JB, Marques-Vidal P, Feihl F, Bloch J, Messerer M, Levivier M, Meuli R, **Magistretti PJ**, Oddo M. *Cerebral metabolic effects of exogenous lactate supplementation on the injured human brain.*

Intensive Care Med. 2014 Jan 30

192 - Lengacher S, Nehiri-Sitayeb T, Steiner N, Carneiro L, Favrod C, Preitner F, Thorens B, Stehle JC, Dix L, Pralong F, **Magistretti PJ**, Pellerin L. *Resistance to diet-induced obesity and associated metabolic perturbations in haploinsufficient monocarboxylate transporter 1 mice.* **PLoS One. 2013 Dec 18;8(12):e82505.**

191 - Jourdain P, Becq F, Lengacher S, Boinot C, **Magistretti PJ**, Marquet P. *The human CFTR protein expressed in CHO cells activates aquaporin-3 in a cAMP-dependent pathway: study by digital holographic microscopy.* **J Cell Sci. 2014 Feb 1;127(Pt 3):546-56.**

190 - Petit JM, Gyger J, Burlet-Godinot S, Fiumelli H, Martin JL, **Magistretti PJ**. *Genes involved in the astrocyte-neuron lactate shuttle (ANLS) are specifically regulated in cortical astrocytes following sleep deprivation in mice.* **Sleep. 2013 Oct 1;36(10):1445-58**.

189 - Scott-Van Zeeland AA, Bloss CS, Tewhey R, Bansal V, Torkamani A, Libiger O, Duvvuri V, Wineinger N Galvez L, Darst BF, Smith EN, Carson A, Pham P, Phillips T, Villarasa N, Tisch R, Zhang G, Levy S, Murray S, Chen W, Srinivasan S, Berenson G, Brandt H, Crawford S, Crow S, Fichter MM, Halmi KA, Johnson C, Kaplan AS, La Via M, Mitchell JE, Strober M, Rotondo A, Treasure J, Woodside DB, Bulik CM, Keel P, Klump KL, Lilenfeld L, Plotnicov K, Topol EJ, Shih PB, **Magistretti P**, Bergen AW, Berrettini W, Kaye W, Schork NJ.Evidence for the role of EPHX2 gene variants in anorexia nervosa. **Mol Psychiatry. 2013 Sep 3.**

188 - Sala N, Suys T, Zerlauth JB, Bouzat P, Messerer M, Bloch J, Levivier M, **Magistretti PJ**, Meuli R, Oddo M. Cerebral extracellular lactate increase is predominantly nonischemic in patients with severe traumatic brain injury. **J Cereb Blood Flow Metab. 2013 Nov;33(11):1815-22.**

187 - Choong E, Quteineh L, Cardinaux JR, Gholam-Rezaee M, Vandenberghe F, Dobrinas M, Bondolfi G, Etter M, Holzer L, **Magistretti P**, von Gunten A, Preisig M, Vollenweider P, Beckmann JS, Pralong FP, Waeber G, Kutalik Z, Conus P, Bochud M, Eap CB, Influence of CRTC1 polymorphisms on body mass index and fat mass in psychiatric patients and the general adult population. **JAMA Psychiatry. 2013 Oct;70(10):1011-9**.

186 - Kunze A, Lengacher S, Dirren E, Aebischer P, **Magistretti PJ**, Renaud P, *Astrocyte-neuron co-culture on microchips based on the model of SOD mutation to mimic ALS.* **Integr Biol (Camb). 2013 Jul 24;5(7):964-75.**

185 - Liu X, Petit JM, Ezan P, Gyger J, **Magistretti P**, Giaume C. The psychostimulant modafinil enhances gap junctional communication in cortical astrocytes. **Neuropharmacology. 2013 Dec;75:533-8.**

184 - Boss D, Kühn J, Jourdain P, Depeursinge C, **Magistretti PJ**, Marquet P. Measurement of absolute cell volume, osmotic membrane water permeability, and refractive index of transmembrane water and solute flux by digital holographic microscopy. **J Biomed Opt. 2013 Mar;18(3):036007**

183 - Márquez C, Poirier GL, Cordero MI, Larsen MH, Groner A, Marquis J, **Magistretti PJ**, Trono D, Sandi C. Peripuberty stress leads to abnormal aggression, altered amygdala and orbitofrontal reactivity and increased prefrontal MAOA gene expression. **Transl Psychiatry. 2013 Jan 15;3:e216**.

182 - Jourdain P, Boss D, Rappaz B, Moratal C, Hernandez MC, Depeursinge C, **Magistretti PJ**, Marquet P. Simultaneous optical recording in multiple cells by digital holographic microscopy of chloride current associated to activation of the ligand-gated chloride channel GABA(A) receptor. **PLoS One. 2012;7(12):e51041.**

181 - Berthet C, Castillo X, **Magistretti PJ**, Hirt L. New evidence of neuroprotection by lactate after transient focal cerebral ischaemia: extended benefit after intracerebroventricular injection and efficacy of intravenous administration. **Cerebrovasc Dis. 2012;34(5-6):329-35.**

180 - Kühn J, Shaffer E, Mena J, Breton B, Parent J, Rappaz B, Chambon M, Emery Y, **Magistretti P**, Depeursinge C, Marquet P, Turcatti G. Label-free cytotoxicity screening assay by digital holographic microscopy. **Assay Drug Dev Technol. 2013 Mar;11(2):101-7.**

179 - Boss D, Hoffmann A, Rappaz B, Depeursinge C, **Magistretti** PJ, Van de Ville D, Marquet P Spatially- resolved

eigenmode decomposition of red blood cells membrane fluctuations questions the role of ATP in flickering. PLoS One. 2012;7(8):e40667. Epub 2012 Aug 10.

178 - Baud MO, **Magistretti PJ**, Petit JM. *Sustained sleep fragmentation affects brain temperature, food intake and glucose tolerance in mice.* J Sleep Res. 2012 Jun 26. doi: 10.1111/j.1365-2869.2012.01029.x. [Epub ahead of print]

*177- Morrison BM, Lee Y, Li Y, Lengacher S, Farah MH, Liu Y, Tsingalia A, Jin L, Zhang PW, Griffin JW, Pellerin L, **Magistretti PJ**, Rothstein JD Oligodendroglia have a fundamental role in metabolic support of axons and contribute to neurodegeneration **Nature 2012 Jul 26;487(7408):443-8.**

176 - Breuillaud L, Rossetti C, Meylan EM, Mérinat C, Halfon O, **Magistretti PJ**, Cardinaux, JR.*Deletion of CREB-Regulated Transcription Coactivator 1 Induces Pathological Aggression, Depression- Related Behaviors, and Neuroplasticity Genes Dysregulation in Mice.* **Biol Psychiatry. 2012 May 14. [Epub ahead of print]**

175 - Oddo M, Levine JM, Frangos S, Maloney-Wilensky E, Carrera E, Daniel RT, Levivier M, **Magistretti PJ**, and LeRoux PD, *Brain lactate metabolism in humans with subarachnoid haemorrhage.* ***Stroke 2012 16; 111.648568*.**

174 - Pavillon N, Kühn J, Moratal C, Jourdain P, Depeursinge C, **Magistretti PJ**, Marquet P., *Early cell death detection with digital holographic microscopy.* **PLoS One. 2012;7(1):e30912.**

*173 -Bélanger M, Yang J, Petit JM, Laroche T, **Magistretti PJ*,** Allaman I.* *Role of the glyoxalase system in astrocyte-mediated neuroprotection.* **J Neurosci. 2011 Dec 14;31(50):18338-52.** * Co-last authors

*172 - Jourdain P, Pavillon N, Moratal C, Boss D, Rappaz B, Depeursinge C, Marquet P, **Magistretti PJ**, *Determination of Transmembrane Water Fluxes in Neurons Elicited by Glutamate Ionotropic Receptors and by the Cotransporters KCC2 and NKCC1: A Digital Holographic Microscopy Study.* ***J Neurosci. 2011 Aug 17;31(33):11846-54***

171 - Lavoie S, Allaman I, Petit JM, Do KQ, **Magistretti PJ**, *Altered glycogen metabolism in cultured astrocytes from mice with chronic glutathione deficit; relevance for neuroenergetics in schizophrenia.* **PLoS One. 2011;6(7):e22875**

170 - Root TL, Szatkiewicz JP, Jonassaint CR, Thornton LM, Pinheiro AP, Strober M, Bloss C, Berrettini W, Schork NJ, Kaye WH, Bergen AW, **Magistretti P**, Brandt H, Crawford S, Crow S, Fichter MM, Goldman D, Halmi KA, Johnson C, Kaplan AS, Keel PK, Klump KL, La Via M, Mitchell JE, Rotondo A, Treasure J, Woodside DB, Bulik CM, *Association of Candidate Genes with Phenotypic Traits Relevant to Anorexia Nervosa.* **Eur Eat Disord Rev. 2011 Jul 21. doi: 10.1002/erv.1138**

169 - Bloss CS, Berrettini W, Bergen A.W, **Magistretti P**, Duvvuri V, Strober M, Brandt H, Crawford S, Crow S, Fichter M.M, Halmi K.A, Johnson C, Kaplan A.S, Keel P, Klump K.L, Mitchell J, Treasure J, Woodside D.B, Marzola E, Schork NJ, Kaye WH, *Genetic Association of Recovery from Eating Disorders: The Role of GABA Receptor SNPs.* **Neuropsychopharmacology. 2011 Jul 13. doi: 10.1038/npp.2011.108**

168 - Wyss MT, **Magistretti PJ**, Buck A, Weber B, *Labeled acetate as a marker of astrocytic metabolism.* **J Cereb Blood Flow Metab. 2011 Jun 8. doi: 10.1038/jcbfm.2011.84**

167 - Wyss MT, Jolivet R, Buck A, **Magistretti PJ**, Weber B, *In vivo evidence for lactate as a neuronal energy source.* **J Neurosci. 2011 May 18;31(20):7477-85**

166 - Jonassaint CR, Szatkiewicz JP, Bulik CM, Thornton LM, Bloss C, Berrettini WH, Kaye WH, Bergen AW, **Magistretti P**, Strober M, Keel PK, Brandt H, Crawford S, Crow S, Fichter MM, Goldman D, Halmi KA, Johnson C, Kaplan AS, Klump KL, La Via M, Mitchell JE, Rotondo A, Treasure J, Woodside DB, *Absence of association between specific common variants of the obesity-related FTO gene and psychological and behavioral eating disorder phenotypes.* **Am J Med Genet B Neuropsychiatr Genet. 2011 Jun;156B(4):454-61**

165 - Azarias G, Perreten H, Lengenhacher S, Poburko D, Demaurex N, **Magistretti PJ**, Chatton JY, *Glutamate Transport Decreases Mitochondrial pH and Modulates Oxidative Metabolism in Astrocytes.* **J Neurosci. 2011 March 9; 31(10):3550 – 3559**

*164 - Suzuki A, Stern SA, Bozdagi O, Huntley GW, Walker RH, **Magistretti PJ**, Alberini CM, *Astrocyte-neuron lactate transport is required for long-term memory formation.* **Cell. 2011 Mar 4;144(5):810-23**

163 - Allaman, I, Fiumelli H, **Magistretti PJ**, Martin JL, *Fluoxetine regulates the expression of neurotrophic/growth factors and glucose metabolism in astrocytes.* **Psychopharmacology (Berl). 2011 Jul;216(1):75-84**

162 - Shaffer E, Moratal C, **Magistretti PJ**, Marquet P, Depeursinge C, *Label-free second-harmonic phase imaging of biological specimen by digital holographic microscopy.* **Opt Lett. 2010 Dec 15;35(24):4102-4**

161 - Singh A, Joliver R, **Magistretti PJ**, Weber B, *Sodium entry efficiency during action potentials: novel single-parameter family of Hodgkin-Huxley models.* **Advances in Neural Information Processing Systems 23: 2173 – 2180, 2010**

160 - Wang K, Zhang H, Bloss CS, Duvvuri V, Kaye W, Schork NJ, Berrettini W, Hakonarson H, the Price Foundation Collaborative Group, *A genome-wide association study on common SNPs and rare CNVs in anorexia nervosa.* **Mol Psychiatry. 2011 Sep;16(9):949-59**

159 - Bélanger M, Allaman I, **Magistretti PJ**, *Differential effects of pro- and anti-inflammatory cytokines alone or in combinations on the metabolic profile of astrocytes.* **J Neurochem. 2011 Feb;116(4):564-76**

158 - Jan A, Adolfsson O, Allaman I, Varisco A, **Magistretti PJ**, Muhs A, Pfiefer A, Lashuel HA, *Aβ42 neurotoxicity is mediated by an ongoing a nucleated polymerization process rather than by a discrete Aβ42 species.* **J Biol Chem. 2011 Mar 11;286(10):8585-96**

157 - Ribes D, Parafita J, Charrier R, Magara F, **Magistretti PJ**, Thiran JP, *JULIDE: A Software Tool for 3D Reconstruction and Statistical Analysis of Autoradiographic Mouse Brain Sections.* **PLoS One. 2010 Nov 23;5(11):e14094**

156 - Pinheiro AP, Bulik CM, Thornton LM, Sullivan PF, Root TL, Bloss CS, Berrettini WH, Schork NJ, Kaye WH, Bergen AW, **Magistretti PJ**, Brandt H, Crawford S, Crow S, Fichter MM, Goldman D, Halmi KA, Johnson C, Kaplan AS, Keel PK, Klump KL, La Via M, Mitchell JE, Strober M, Rotondo A, Treasure J, Woodside DB, *Association study of 182 candidate genes in anorexia nervosa.* **Am J Med Genet B Neuropsychiatr Genet. 2010 Jul; 153B (5):1070-80**

155 - Pavillon N, Benke A, Boss D, Moratal C, Kühn J, Jourdain P, Depeursinge C, **Magistretti PJ**, Marquet P, *Cell morphology and intracellular ionic homeostasis explored with a multimodal approach combining epifluorescence and digital holographic microscopy.* **J Biophotonics. 2010 Jul;3(7):432-6**

154 - Petit JM, Tobler I, Kopp C, Morgenthaler F, Borbély AA, **Magistretti PJ**, *Metabolic Response of the Cerebral Cortex Following Gentle Sleep Deprivation and Modafinil Administration.* **Sleep 2010, 3(7):901-8**

153 - Allaman I, Gavillet M, Bélanger M, Laroche T, Viertl T, Lashuel HA, **Magistretti PJ**, *Amyloid beta-aggregates cause alterations of astrocytic metabolic phenotype: Impact on neuronal viability.* **J Neurosci. 2010 Mar 3;30(9):3326-38**

152 - Brunet JF, Allaman I, **Magistretti PJ**, Pellerin L, *Glycogen metabolism as a marker of astrocyte differentiation.* **J Cereb Blood Flow Metab. 2010 Jan;30(1):51-5**

151- Berthet C, Lei H, Thevenet J, Gruetter R, **Magistretti PJ**, Hirt L, *Neuroprotective role of lactate after cerebral ischemia.* **J Cereb Blood Flow Metab. 2009 Nov;29(11):1780-9**

150 - Jolivet R, **Magistretti PJ**, Weber B, *Deciphering neuron-glia compartmentalization in cortical energy metabolism.* **Front Neuroenergetics. 2009;1:4**

149 - Rappaz B, Cano E, Colomb T, Kühn J, Depeursinge C, Simanis V, Magistretti PJ, Marquet P, *Noninvasive characterization of the fission yeast cell cycle by monitoring dry mass with digital holographic microscopy.* **J Biomed Opt. 2009 May-Jun;14(3):034049**

148 - Morgenthaler FD, Lanz BR, Petit JM, Frenkel H, **Magistretti PJ**, Gruetter R, *Alteration of brain glycogen turnover in the conscious rat after 5h of prolonged wakefulness.* **Neurochem Int. 2009 Jul-Aug;55(1-3):45-51**

147 - Breuillaud L, Halfon O, **Magistretti PJ**, Pralong FP, Cardinaux JR, *Mouse fertility is not dependent on the coactivator Crtc1.* **Nat Med. 2009 Sep;15(9):989-90**

146 - Wyss MT, Weber B, Treyer V, Heer S, Pellerin L, Magistretti PJ, Buck A, *Stimulation-induced increases of astrocytic oxidative metabolism in rats and humans investigated with 1-11C-acetate.* **J Cereb Blood Flow Metab. 2009 Jan;29(1):44-56**

145 - Allaman I, Papp M, Kraftsik R, Fiumelli H, **Magistretti PJ**, Martin JL, *Expression of brain-derived neurotrophic factor is not modulated by chronic mild stress in the rat hippocampus and amygdala*. **Pharmacol Rep. 2008 Nov-Dec;60(6):1001-7**

144 - Rappaz B, Barbul A, Emery Y, Korenstein R, Depeursinge C, **Magistretti PJ**, Marquet P, *Comparative study of human erythrocytes by digital holographic microscopy, confocal microscopy, and impedance volume analyzer.* **Cytometry A. 2008 Oct;73(10):895-903**

143 - Chiry O, Fishbein WN, Merezhinskaya N, Clarke S, Galuske R, **Magistretti PJ**, Pellerin L, *Distribution of the monocarboxylate transporter MCT2 in human cerebral cortex: An immunohistochemical study.* **Brain Res. 2008 Aug 21;1226:61-9**

142 - Badaut J, Brunet JF, Petit JM, Guérin CF, **Magistretti PJ**, Regli L. *Induction of brain aquaporin 9 (AQP9) in catecholaminergic neurons in diabetic rats.* **Brain Res. 2008 Jan 10;1188:17-24**

141 - Rappaz B, Charrière F, Depeursinge C, **Magistretti PJ**, Marquet P. *Simultaneous cell morphometry and refractive index measurement with dual-wavelength digital holographic microscopy and dye-enhanced dispersion of perfusion medium.* **Opt Lett. 2008 Apr 1;33(7):744-6**

140 - Gavillet M, Allaman I, **Magistretti PJ**, *Modulation of astrocytic metabolic phenotype by proinflammatory cytokines.* **Glia. 2008 Jul;56(9):975-89**

139 - Granziera C, D'Arceuil H, Zai L, **Magistretti PJ**, Sorensen AG, De Crespigny AJ, *Long-term monitoring of post-stroke plasticity after transient cerebral ischemia in mice using in vivo and ex vivo diffusion tensor MRI.* **Open Neuroimag J. 2007; 1:10-7**

138 - Pellerin L, Bouzier-Sore AK, Aubert A, Serres S, Merle M, Costalat R, **Magistretti PJ**, *Activity-dependent regulation of energy metabolism by astrocytes: an update.* **Glia 2007 Sep; 55(12):1251-62**

137 - Granziera C, Thevenet J, Price M, Wiegler K, **Magistretti PJ**, Badaut J, Hirt L, *Thrombin-induced ischemic tolerance is prevented by inhibiting c-jun N-terminal kinase.* **Brain Res. 2007 May 7;1148:217-25**

136 - Badaut J, Brunet JF, Petit JM, Guérin C.F, **Magistretti PJ**, Regli L, *Induction of brain aquaporin 9 (AQP9) in catecholaminergic neurons in diabetic rats.* **Brain Res. 2008 Jan 10;1188:17-24**

135 - Kovacs KA, Steullet P, Steinmann M, Do KQ, **Magistretti PJ**, Halfon O, Cardinaux JR, *TORC1 is a calcium - and cAMP - sensitive coincidence detector involved in hippocampal long-term synaptic plasticity.* **Proc Natl Acad Sci U S A. 2007 Mar 13;104(11):4700-5**

134 - Granziera C, Thevenet J, Price M, Wiegler K, **Magistretti PJ**, Badaut J, Hirt L, *Thrombin-induced ischemic tolerance is prevented by inhibiting c-jun N-terminal kinase.* **Brain Res. 2007 May 7;1148:217-25**

133 - Laughton JD, Bittar P, Charnay Y, Pellerin L, Kovari E, **Magistretti PJ**, Bouras C, *Metabolic compartmentalization in the human cortex and hippocampus: evidence for a cell- and region-specific localization of lactate dehydrogenase 5 and pyruvate dehydrogenase.* **BMC Neurosci. 2007 May 23; 8:35**

132 - Aubert A, Pellerin L, **Magistretti PJ**, Costalat R, *A coherent neurobiological framework for functional neuroimaging provided by a model integrating compartmentalized energy metabolism.* **Proc Natl Acad Sci U S A. 2007 Mar 6;104(10):4188-93**

131 - Morgenthaler FD, Kraftsik R, Catsicas S, **Magistretti PJ**, Chatton JY, *Glucose and lactate are equally effective in energizing activity-dependent synaptic vesicle turnover in purified cortical neurons.* **Neuroscience. 2006 Aug 11;141(1):157-65**

130 - Kovacs KA, Steinmann M, **Magistretti PJ**, Halfon O, Cardinaux JR, *C/EBPbeta couples dopamine signalling to substance P precursor gene expression in striatal neurones.* **J Neurochem. 2006 Sep;98(5):1390-9**

129 - Chiry O, Pellerin L, Monnet-Tschudi F, Fishbein WN, Merezhinskaya N, **Magistretti PJ**, Clarke S, *Expression of the monocarboxylate transporter MCT1 in the adult human brain cortex.* **Brain Res. 2006 Jan 27;1070(1):65-70**

128 - Badaut J, Hirt L, Price M, De Castro Ribeiro M, **Magistretti PJ**, Regli L, *Hypoxia/hypoglycemia preconditioning prevents the loss of functional electrical activity in organotypic slice cultures.* **Brain Res. 2005 Jul 27;1051(1-2):117-22**

127 - Aubert A, Costalat R, **Magistretti PJ**, Pellerin L, *Brain lactate kinetics: modeling evidence for neuronal lactate uptake upon activation.* **Proc Natl Acad Sci U S A. 2005 Nov 8;102(45):16448-53**

126 - Ros J, Pellerin L, Magara F, Dauguet J, Schenk F, **Magistretti PJ**, *Metabolic activation pattern of distinct hippocampal subregions during spatial learning and memory retrieval.* **J Cereb Blood Flow Metab. 2006 Apr; 26(4):468-77**

125 - Rappaz B, Marquet P, Cuche E, Emery Y, Depeursinge C, **Magistretti PJ**, *Measurement of the integral refractive index and dynamic cell morphometry of living cells with digital holographic microscopy.* **Opt Express. 2005 Nov 14;13(23):9361-73**

124 - Moulin-Sallanon M, Millet P, Rousset C, Zimmer L, Debilly G, Petit JM, Cespuglio R, **Magistretti PJ**, Ibanez V, *Chloramphenicol decreases brain glucose utilization and modifies the sleep-wake cycle architecture in rats.* **J Neurochem. 2005 Jun;93(6):1623-32**

123 - **Magistretti PJ**, Chatton JY, *Relationship between L-glutamate-regulated intracellular (Na (+) dynamics and ATP hydrolysis in astrocytes.* **J Neural Transm. 2005 Jan;112(1):77-85**

122 - Pellerin L, **Magistretti PJ**, *Ampakine CX546 bolsters energetic response of astrocytes: a novel target for cognitive-enhancing drugs acting as alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor modulators.* **J Neurochem. 2005 Feb;92(3):668-77**

121 - Marquet P, Rappaz B, **Magistretti PJ**, Cuche E, Emery Y, Colomb T, Depeursinge C, *Digital holographic microscopy: a noninvasive contrast imaging technique allowing quantitative visualization of living cells with subwavelength axial accuracy.* **Opt Lett. 2005 Mar 1;30(5):468-70**

120 - Bergersen LH, **Magistretti PJ**, Pellerin L, *Selective postsynaptic co-localization of MCT2 with AMPA receptor GluR2/3 subunits at excitatory synapses exhibiting AMPA receptor trafficking.* **Cereb Cortex. 2005 Apr;15(4):361-70**

119 - Bernardinelli Y, **Magistretti PJ**, Chatton JY, *Astrocytes generate Na+-mediated metabolic waves.* **Proc Natl Acad Sci U S A. 2004 Oct 12;101(41):14937-42**

118 - Millet P, Moulin Sallanon M, Petit JM, Charnay Y, Vallet P, Morel C, Cespuglio R, **Magistretti PJ**, Ibanez V, *In vivo measurement of glucose utilization in rats using a beta-microprobe: direct comparison with autoradiography.* **J Cereb Blood Flow Metab. 2004 Sep;24(9):1015-24**

117 - Lengacher S, **Magistretti PJ**, Pellerin L, *Quantitative RT-PCR analysis of uncoupling protein isoforms in mouse brain cortex: methodological optimization and comparison of expression with brown adipose tissue and skeletal muscle.* **J Cereb Blood Flow Metab. 2004 Jul;24(7):780-8**

116 - Bliss TM, Ip M, Cheng E, Minami M, Pellerin L, **Magistretti PJ**, Sapolsky RM, *Dual-gene, dual-cell type therapy against an excitotoxic insult by bolstering neuroenergetics.* **J Neurosci. 2004 Jul 7;24(27):6202-8**

115 - Fayol L, Baud O, Monier A, Pellerin L, **Magistretti PJ**, Evrard P, Verney C, *Immunocytochemical expression of monocarboxylate transporters in the human visual cortex at midgestation.* **Brain Res Dev Brain Res. 2004 Jan 31;148(1):69-76**

114 - Brunet JF, Grollimund L, Chatton JY, Lengacher S, **Magistretti PJ**, Villemure JG, Pellerin L, *Early acquisition of typical metabolic features upon differentiation of mouse neural stem cells into astrocytes.* **Glia. 2004 Apr 1;46(1):8-17**

113 - Allaman I, Pellerin L, **Magistretti PJ**, *Glucocorticoids modulate neurotransmitter-induced glycogen metabolism in cultured cortical astrocytes.* **J Neurochem. 2004 Feb;88(4):900-8**

112 - Kovacs K.A, Steinmann M, **Magistretti PJ**, Halfon O, Cardinaux JR, *CCAAT/Enhancer-binding protein family members recruit the coactivator CREB-binding protein and trigger its phosphorylation.* **J Biol Chem. 2003 Sep 19;278(38):36959-65**

111 - Bouzier-Sore AK, Voisin P, Canioni P, **Magistretti PJ**, Pellerin L, *Lactate is a preferential oxidative energy substrate over glucose for neurons in culture.* **J Cereb Blood Flow Metab. 2003 Nov;23(11):1298-306**

110 - Brunet JF, Pellerin L, **Magistretti PJ**, Villemure JG, *Cryopreservation of human brain tissue allowing timely production of viable adult human brain cells for autologous transplantation.* **Cryobiology. 2003 Oct;47(2):179-83**

109 - Baud O, Fayol L, Gressens P, Pellerin L, **Magistretti PJ**, Evrard P, Verney C, *Perinatal and early postnatal changes in the expression of monocarboxylate transporters MCT1 and MCT2 in the rat forebrain.* **J Comp Neurol. 2003 Oct 20;465(3):445-54**

108 - Boussouar F, Mauduit C, Tabone E, Pellerin L, **Magistretti PJ**, Benahmed M, *Developmental and hormonal regulation of the monocarboxylate transporter 2 (MCT2) expression in the mouse germ cells.* **Biol Reprod. 2003 Sep;69(3):1069-78**

107 - Pierre K, Debernardi R, **Magistretti PJ**, Pellerin L, *Noradrenaline enhances MCT2 expression in cultured mouse cortical neurons via a translational regulation.* **J Neurochem. 2003 Sep;86(6):1468-76**

106 - Debernardi R, Pierre K, Lengacher S, **Magistretti PJ**, Pellerin L, *Cell-specific expression pattern of monocarboxylate transporters in astrocytes and neurons observed in different mouse brain cortical cell cultures.* **J Neurosci Res. 2003 Jul 15;73(2):141-55**

105 - Chatton JY, Pellerin L, **Magistretti PJ**, *GABA uptake into astrocytes is not associated with significant metabolic cost: implications for brain imaging of inhibitory transmission.* **Proc Natl Acad Sci U S A. 2003 Oct 14;100(21):12456-61**

104 - Allaman I, Lengacher S, **Magistretti PJ**, Pellerin L, *A2B receptor activation promotes glycogen synthesis in astrocytes through modulation of gene expression*. **Am J Physiol Cell Physiol. 2003 Mar;284(3):C696-704**

103 - Chiry O, Tardif E, **Magistretti PJ**, Clarke S, *Patterns of calcium-binding proteins support parallel and hierarchical organization of human auditory areas.* **Eur J Neurosci. 2003 Jan;17(2):397-410**

102 - Voutsinos-Porche B, Bonvento G, Tanaka K, Steiner P, Welker E, Chatton JA, **Magistretti PJ**, Pellerin L, *Glial glutamate transporters mediate a functional metabolic crosstalk between neurons and astrocytes in the mouse developing cortex.* **Neuron. 2003 Jan 23;37(2):275-86**

101 - Bouzier-Sore AK, Merle M, **Magistretti PJ**, Pellerin L, *Feeding active neurons: (re)emergence of a nursing role for astrocytes.* **J Physiol Paris. 2002 Apr-Jun;96(3-4):273-82**

100 - Petit JM, Tobler I, Allaman I, Borbély AA, **Magistretti PJ**, *Sleep deprivation modulates brain mRNAs encoding genes of glycogen metabolism.* **Eur J Neurosci. 2002 Sep;16(6):1163-7**

99 - Kopp C, Petit JM, **Magistretti PJ**, Borbély AA, Tobler I, *Comparison of the effects of modafinil and sleep deprivation on sleep and cortical EEG spectra in mice.* **Neuropharmacology. 2002 Jul;43(1):110-8**

98 - Pralong E, **Magistretti PJ**, Stoop R, *Cellular perspectives on the glutamate-monoamine interactions in limbic lobe structures and their relevance for some psychiatric disorders.* **Prog Neurobiol. 2002 Jun;67(3):173-202**

97 - Brunet JF, Pellerin L, Arsenijevic Y, **Magistretti PJ**, Villemure JG, *A novel method for in vitro production of human glial-like cells from neurosurgical resection tissue.* **Lab Invest. 2002 Jun;82(6):809-12**

96 - Véga C, Pellerin L, Dantzer R, **Magistretti PJ**, *Long-term modulation of glucose utilization by IL-1 alpha and TNF- alpha in astrocytes: Na+ PUMP activity as a potential target via distinct signaling mechanisms.* **Glia. 2002 Jul;39(1):10-8**

95 - Cholet N, Pellerin L, **Magistretti PJ**, Hamel E, *Similar perisynaptic glial localization for the Na+,K+-ATPase alpha 2 subunit and the glutamate transporters GLAST and GLT-1 in the rat somatosensory cortex.* **Cereb Cortex. 2002 May;12(5):515-25**

94 - Pierre K, **Magistretti PJ**, Pellerin L, *MCT2 is a major neuronal monocarboxylate transporter in the adult mouse brain.* **J Cereb Blood Flow Metab. 2002 May;22(5):586-95**

93 - Badaut J, Lasbennes F, **Magistretti PJ**, Regli L, *Aquaporins in brain: distribution, physiology and pathophysiology.* **J Cereb Blood Flow Metab. 2002 Apr;22(4):367-78**

92 - Grice DE, Halmi KA, Fichter MM, Strober M, Woodside DB, Treasure JT, Kaplan AS, **Magistretti PJ**, Goldman D, Bulik C.M, Kaye WH, Berrettini WH, *Evidence for a susceptibility gene for anorexia nervosa on chromosome 1.* **Am J Hum Genet. 2002 Mar;70(3):787-92**

91 - Chatton JY, Idle JR, Vågbø CB, **Magistretti PJ**, *Insights into the mechanisms of ifosfamide encephalopathy: drug metabolites have agonistic effects on AMPA/kainate receptors and induce cellular acidification in mouse cortical neurons.* **J Pharmacol Exp Ther. 2001 Dec;299(3):1161-8**

90 - Hirt L, Maréchal C, Ghika JA, **Magistretti PJ**, Bogousslavsky J, *Ocular mitochondrial myopathy evolving late in life into a disabling proximal myopathy associated with the mitochondrial DNA 3243 A to G mutation.*
J Neurol. 2001 Apr;248(4):332-3

89 - Badaut J, Hirt L, Granziera C, Bogousslavsky J, **Magistretti PJ**, Regli L, *The astrocyte-specific expression of aquaporin 9 in mouse brain is increased following transient focal cerebral ischemia.* **J Cereb Blood Flow Metab. 2001 May;21(5):477-82**

88 - Cholet N, Pellerin L, Welker E, Lacombe P, Seylaz J, **Magistretti PJ**, Bonvento G, *Local injection of antisense oligonucleotides targeted to the glial glutamate transporter glast decreases the metabolic response to somatosensory activation.* **J Cereb Blood Flow Metab. 2001 May;21(5):477-82**

87 - Zerarka S, Pellerin L, Slosman D, **Magistretti PJ**, *Astrocytes as a predominant cellular site of 99mTc-HMPAO retention.* **J Cereb Blood Flow Metab. 2001 Apr;21(4):456-68**

86 - Chatton JY, Shimamoto K, **Magistretti PJ**, *Effects of glial glutamate transporter inhibitors on intracellular na+ in mouse astrocytes.* **Brain Res. 2001 Mar 2;893(1-2):46-52**

85 - Barakat-Walter I, Kraftsik R, Kuntzer T, Bogousslavsky J, **Magistretti PJ**, *Differential effect of thyroid hormone deficiency on the growth of calretinin-expressing neurons in rat spinal cord and dorsal root ganglia.*
J Comp Neurol. 2000 Oct 30;426(4):519-33

84 - Chatton JY, Marquet P, **Magistretti PJ**, *A quantitative analysis of L-glutamate-regulated Na+ dynamics in mouse cortical astrocytes: implications for cellular bioenergetics.* **Eur J Neurosci. 2000 Nov;12(11):3843-53**

83 - Pierre K, Pellerin L, Debernardi R, Riederer BM, **Magistretti PJ**, *Cell-specific localization of monocarboxylate transporters, MCT1 and MCT2 in the adult mouse brain revealed by double immunohistochemical labeling and confocal microscopy.* **Neuroscience. 2000;100(3):617-27**

82 - Allaman I, Pellerin L, **Magistretti PJ**, *Protein Targeting to Glycogen (PTG) mRNA expression is stimulated by noradrenaline in mouse cortical astrocytes.* **Glia. 2000 Jun;30(4):382-91**

81 - Laughton J, Charnay Y, Belloir L, Pellerin L, **Magistretti PJ**, Bouras C, *Differential mRNA distribution for lactate dehydrogenase LDH-1 and LDH-5 isoforms in the rat brain.* **Neuroscience. 2000;96(3):619-25**

80 - Fiumelli H, Kiraly M, Ambrus A, **Magistretti PJ**, Martin JL, *Opposite regulation of calbindin and calretinin expression by BDNF in cortical neurons.* **J Neurochem. 2000 May;74(5):1870-7**

79 - Cardinaux JR, Allaman I, **Magistretti PJ**, *Pro-inflammatory cytokines induce the transcription factors C/EBP beta and C/EBP delta in primary astrocytes.* **Glia. 2000 Jan 1;29(1):91-7**

78 - De Bernardi R, **Magistretti PJ**, Pellerin L, *Trans-inhibition of glutamate transport prevents excitatory amino acid-induced glycolysis in astrocytes.* **Brain Res. 1999 Dec 11;850(1-2):39-46**

77 - Bissonnette B, Pellerin L, Ravussin P, Daven VB, Magis**tretti, PJ**, *Deep hypothermia and rewarming alters glutamate levels and glycogen content in cultured astrocytes.* **Anesthesiology. 1999 Dec;91(6):1763-9**

76 - Schluep M, Van Melle G, Henry H, Städler C, Roth-Wicky B, **Magistretti PJ**, *Assessing multiple sclerosis activity: is the in vitro production of tumor necrosis factor-alpha, interleukins 2,6,4 and 10, and immunoglobulin G of value ?* **J Neurol. 1999 Nov;246(11):1041-50**

75 - Fiumelli H, Jabaudon D, **Magistretti PJ**, Martin JL, *BDNF stimulates expression, activity and release of tissue-type plasminogen activator in cortical neurons.* **Eur J Neurosci. 1999 May;11(5):1639-46**

74 - Schluep M, Van Melle G, Henry H, Städler C, Roth-Wicky B, **Magistretti PJ**, *In vitro cytokine profiles as indicators of relapse activity and clinical course in multiple sclerosis*. **Mult Scler. 1998 Jun;4(3):198-202**

73 - Pellerin L, Pellegri G, Bittar PG, Bouras C, Martin JL, Stella N, **Magistretti PJ**, *Evidence supporting the existence of an activity-dependent astrocyte-neuron lactate shuttle.* **Dev Neurosci. 1998;20(4-5):291-9**

72 - Yu N, Zhang X, **Magistretti PJ**, Bloom FE, *IL-1-alpha and TNF-alpha differentially regulate CD4 and Mac-1 expression in mouse microglia.* **Neuroimmunomodulation. 1998 Jan-Apr;5(1-2):42-52**

71 - Pellerin L, Pellegri G, Martin JL, **Magistretti PJ**, *Expression of monocarboxylate transporter mRNAs in mouse brain: support for a distinct role of lactate as an energy substrate for the neonatal vs. adult brain.* **Proc Natl Acad Sci U S A. 1998 Mar 31;95(7):3990-5**

70 - Ferry B, **Magistretti PJ**, Pralong E, *High potency of the orally-active NMDA-receptor antagonist CGP 40 116 in inhibiting excitatory postsynaptic potentials of rat basolateral amygdala neurones in vitro.* **Neuropharmacology. 1997 Nov-Dec;36(11-12):1555-9**

69 - Pellegri G, **Magistretti PJ**, Martin JL, *VIP and PACAP potentiate the action of glutamate on BDNF expression in mouse cortical neurons.* **Eur J Neurosci. 1998 Jan;10(1):272-80**

68 - Bröer S, Rahman B, Pellegri G, Pellerin L, Martin JL, Verleysdonk S, Hamprecht B, **Magistretti PJ**, *Comparison of lactate transport in astroglial cells and monocarboxylate transporter 1 (MCT1) expressing Xenopus laevis oocytes.* **J Biol Chem. 1997 Nov 28;272(48):30096-102**

67 - Cardinaux JR, **Magistretti PJ**, Martin JL, *Brain-derived neurotrophic factor stimulates phosphorylation of stathmin in cortical neurons.* **Brain Res Mol Brain Res. 1997 Nov;51(1-2):220-8**

66 - Pellerin L, **Magistretti P**J, *Glutamate uptake stimulates Na+/K+-ATPase activity in astrocytes via activation of a distinct subunit highly sensitive to ouabain.* **J Neurochem. 1997 Nov;69(5):2132-7**

65 - Do KD, Benz B, Sorg O, Pellerin L, **Magistretti PJ**, *beta-Adrenergic stimulation promotes homocysteic acid release from astrocyte cultures: evidence for a role of astrocytes in the modulation of synaptic transmission.* **J Neurochem. 1997 Jun;68(6):2386-94**

64 - Ferry B, **Magistretti PJ**, Pralong E, *Noradrenaline modulates glutamate-mediated neurotransmission in the rat basolateral amygdala in vitro.* **Eur J Neurosci. 1997 Jul;9(7):1356-64**

63 - Robert A, **Magistretti PJ**, *AMPA/kainate receptor activation blocks K+ currents via internal Na+ increase in mouse cultured stellate astrocytes.* **Glia. 1997 May;20(1):38-50**

62 - Hirt L, Boulat O, Borruat FX, Bogousslavsky J, **Magistretti PJ**, *Large deletion (7.2 kb) of mitochondrial DNA with novel boundaries in a case of progressive external ophthalmoplegia.* **J Neurol Neurosurg Psychiatry. 1996 Oct;61(4):422-3**

61 - Pellerin L, **Magistretti PJ**, *Excitatory amino acids stimulate aerobic glycolysis in astrocytes via an activation of the Na+/K+ ATPase.* **Dev Neurosci. 1996;18(5-6):336-42**

60 - Bittar PG, Charnay Y, Pellerin L, Bouras C, **Magistretti PJ**, *Selective distribution of lactate dehydrogenase isoenzymes in neurons and astrocytes of the human brain.* **J Cereb Blood Flow Metab. 1996 Nov;16(6):1079-89**

59 - Stella N, **Magistretti PJ**, *Vasoactive intestinal peptide (VIP) and pituitary adenylate cyclase-activating polypeptide (PACAP) potentiate the glutamate-evoked release of arachidonic acid from mouse cortical neurons. Evidence for a cAMP-independent mechanism.* **J Biol Chem. 1996 Sep 27;271(39):23705-10**

58 - Pellegri G, Rossier C, **Magistretti PJ**, Martin JL, *Cloning, localization and induction of mouse brain glycogen synthase.* **Brain Res Mol Brain Res. 1996 Jun;38(2):191-9**

57 - Cardinaux JR, **Magistretti PJ**, *Vasoactive intestinal peptide, pituitary adenylate cyclase-activating peptide, and noradrenaline induce the transcription factors CCAAT/enhancer binding protein (C/EBP)-beta and C/EBP delta in mouse cortical astrocytes: involvement in cAMP-regulated glycogen metabolism.* **J Neurosci. 1996 Feb 1;16(3):919-29**

56 - Pralong E, **Magistretti PJ**, *Noradrenaline increases K-conductance and reduces glutamatergic transmission in the mouse entorhinal cortex by activation of alpha 2-adrenoreceptors.* **Eur J Neurosci. 1995 Dec 1;7(12):2370-8**

55 - Yu N, Maciejewski-Lenoir D, Bloom FE, **Magistretti PJ**, *Tumor necrosis factor-alpha and interleukin-1 alpha enhance glucose utilization by astrocytes: involvement of phospholipase A2.* **Mol Pharmacol. 1995 Sep;48(3):550-8**

54 - Canciglia P, Martin JL, Bolis CL, Randall D, **Magistretti PJ**, *Regional distribution of VIP immunoreactivity in the brain of salmon, trout and carp.* **Biol Signals. 1995 Mar-Apr;4(2):86-93**

53 - Sorg O, Pellerin L, Stolz M, Beggah S, **Magistretti PJ**, *Adenosine triphosphate and arachidonic acid stimulate glycogenolysis in primary cultures of mouse cerebral cortical astrocytes*. **Neurosci Lett. 1995 Mar 24;188(2):109-12**

52 - Martin JL, Gasser D, **Magistretti PJ**, *Vasoactive intestinal peptide and pituitary adenylate cyclase-activating polypeptide potentiate c-fos expression induced by glutamate in cultured cortical neurons.***J Neurochem. 1995 Jul;65(1):1-9**

51 - Stella N, Pellerin L, **Magistretti PJ**, *Modulation of the glutamate-evoked release of arachidonic acid from mouse cortical neurons: Involvement of a pH-sensitive membrane phospholipase A2.* **J Neurosci. 1995 May;15(5 Pt 1):3307-17**

50 - Pellerin L, **Magistretti PJ**, *Glutamate uptake into astrocytes stimulates aerobic glycolysis: A mechanism coupling neuronal activity to glucose utilization.* **Proc Natl Acad Sci U S A. 1994 Oct 25;91(22):10625-9**

49 - Pralong E, **Magistretti PJ**, *Noradrenaline reduces synaptic responses in normal and tottering mouse entorhinal cortex via alpha- 2 receptors.* **Neurosci Lett. 1994 Sep 26;179(1-2):145-8**

48 - **Magistretti PJ**, Sorg O, Yu N, Martin JL, Pellerin L, *Neurotransmitters regulate energy metabolism in astrocytes: implications for the metabolic trafficking between neural cells.* **Dev Neurosci. 1993;15(3-5):306-12**

47 - Yu N, Martin JL, Stella N, **Magistretti PJ**, *Arachidonic acid stimulates glucose uptake in cerebral cortical astrocytes.* **Proc Natl Acad Sci U S A. 1993 May 1;90(9):4042-6**

46 - Pellerin L, **Magistretti PJ**, *Enzymatic determination of glycogen in brain slices.* **Neuroscience Protocols 93/020/01**

45 - Sorg O, **Magistretti PJ**, *Vasoactive intestinal peptide and noradrenaline exert long-term control on glycogen levels in astrocytes: blockade by protein synthesis inhibition.* **J Neurosci. 1992 Dec;12(12):4923-31**

44 - Martin JL, Feinstein DL, Yu N, Sorg O, Rossier C, **Magistretti PJ**, *VIP receptor subtypes in mouse cerebral cortex: evidence for a differential localization in astrocytes, microvessels and synaptosomal membranes.* **Brain Res. 1992 Jul 31;587(1):1-12**

43 - Sorg O, **Magistretti PJ**, *Characterization of the glycogenolysis elicited by vasoactive intestinal peptide, noradrenaline and adenosine in primary cultures of mouse cerebral cortical astrocytes.* **Brain Res. 1991 Nov 1;563(1-2):227-33**

42 - Hof PR, Dietl MM, Charnay Y, Martin JL, Bouras C, Palacios JM, **Magistretti PJ**, *Vasoactive intestinal peptide binding sites and fibers in the brain of the pigeon Columba livia: An autoradiographic and immunohistochemical study.* **J Comp Neurol. 1991 Mar 15;305(3):393-411**

41 - Dietl MM, Hof PR, Martin JL, **Magistretti PJ**, Palacios JM, *Autoradiographic analysis of the distribution of vasoactive intestinal peptide binding sites in the vertebrate central nervous system: a phylogenetic study.* **Brain Res. 1990 Jun 18;520(1-2):14-26**

40 - Schaad NC, Schorderet M, **Magistretti PJ**, *Modulation of VIP-stimulated cAMP formation by excitatory amino acids in mouse cerebral cortex.* **Eur J Neurosci. 1990;2(6):525-533**

39 - Schaad NC, Schorderet M, **Magistretti PJ**, *Accumulation of cyclic AMP elicited by vasoactive intestinal peptide is potentiated by noradrenaline, histamine, adenosine, baclofen, phorbol esters, and ouabain in mouse cerebral cortical slices: studies on the role of arachidonic acid metabolites and protein kinase C.* **J Neurochem. 1989 Dec;53(6):1941-51**

38 - Martin JL, **Magistretti PJ**, *Pharmacological studies of voltage-sensitive Ca2+-channels involved in the release of Vasoactive Intestinal Peptide evoked by K+ in mouse cerebral cortical slices.* **Neuroscience. 1989;30(2):423-31**

37 - Martin JL, **Magistretti PJ**, *Release of Vasoactive Intestinal Peptide in mouse cerebral cortex: Evidence for a role of arachidonic acid metabolites.* **J Neurosci. 1989 Jul;9(7):2536-42**

36 - Schaad NC, **Magistretti PJ**, Schorderet M, *Effects of ethanol on VIP- and/or noradrenaline-stimulated cAMP formation in mouse brain.* **Alcohol. 1988 Nov-Dec;5(6):445-9**

35 - Hof PR, Celio MR, **Magistretti PJ**, *Age-dependent supersensitivity to the glycogenolytic effect of K+ in the cerebral cortex of the spontaneously epileptic quaking mouse mutant.* **Brain Res Dev Brain Res. 1989 Mar 1;46(1):107-13**

34 - **Magistretti PJ**, Hof PR, Martin JL, Dietl M, Palacios JM, *High and low affinity binding sites for Vasoactive Intestinal Peptide (VIP) in the rat kidney revealed by light microscopic autoradiography.* **Regul Pept. 1988 Nov;23(2):145-52**

33 - Iselin CE, Martin JL, **Magistretti PJ**, Ferrero J, *Stimulation by nicotine of enteric inhibitory nerves and release of vasoactive intestinal peptide in the taenia of the guinea pig caecum.* **Eur J Pharmacol. 1988 Mar 29;148(2):179-86**

32 - Hof PR, Pascale E, **Magistretti PJ**, *K+ at concentrations reached in the extracellular space during neuronal activity promotes a Ca++-dependent glycogenolysis.* **J Neurosci. 1988 Jun;8(6):1922-8**

31 - Martin JL, Dietl MM, Hof PR, Palacios JM, **Magistretti PJ**, *Autoradiographic mapping of [mono (125I) iodo-Tyr10, MetO17]-vasoactive intestinal peptide binding sites in the rat brain.* **Neuroscience. 1987 Nov;23(2):539-65**

30 - Bouras C, **Magistretti PJ**, Morrison JH, Constantinidis J, *An immunohistochemical study of pro-somatostatin-derived peptides in the human brain.* **Neuroscience. 1987 Sep;22(3):781-800**

29 - Schaad N, Schorderet M, **Magistretti PJ**, *Synergism between VIP and noradrenaline in increasing cAMP in the cerebral cortex: role of prostaglandins.* **Nature 328, 637-640**

28 - **Magistretti PJ**, Hof PR, Celio MR, *Noradrenergic sub-sensitivity in the cerebral cortex of the tottering mouse, a spontaneously epileptic mutant.* **Brain Res. 1987 Feb 10;403(1):181-5**

27 - Bouras C, **Magistretti PJ**, Morrison JH, *An immunohistochemical study of six biologically active peptides in the human brain.* **Hum Neurobiol. 1986;5(4):213-26**

26 - **Magistretti PJ**, Hof P, Martin JL, *Adenosine stimulates glycogenolysis in mouse cerebral cortex: a possible coupling mechanism between neuronal activity and energy metabolism.* **J Neurosci. 1986 Sep;6(9):2558-62**

25 - Ofori S, **Magistretti PJ**, Schorderet M, *Investigation of dopamine content, synthesis and release in the rabbit retina in vitro. Part II: Effects of high potassium, adenylate cyclase activators and 3-PPP.* **J Neurochem. 1986 Oct;47(4):1207-13**

24 - **Magistretti PJ**, Schönenberg P, Kehrer P, Martin JL, Gaillard RC, *Actions of VIP, hGRF, PHI and secretin: Comparative studies in cerebral cortex and adenohypophysis.* **Peptides. 1986;7 Suppl 1:175-80**

23 - Martin JL, Rose K, Hughes GH, **Magistretti PJ**, *[mono [125I] iodo-Tyr10, MetO17]-Vasoactive Intestinal Polypeptide: Preparation, characterization and use for radioimmunoassay and receptor binding.* **J Biol Chem. 1986 Apr 25;261(12):5320-7**

22 - **Magistretti PJ**, Schorderet M, *Norepineprine and histamine increases in cAMP elicited by asoactive Intestinal Polypeptide in mouse cerebral cortical slices: mediation by alpha 1-adrenergic and H1-histaminergic receptors Norepinephrine and histamine potentiate the increases in cyclic adenosine 3':5'-monophosphate elicited by vasoactive intestinal polypeptide in mouse cerebral cortical slices: mediation by alpha 1-adrenergic and H1-histaminergic receptors.* **J Neurosci. 1985 Feb;5(2):362-8**

21 - **Magistretti PJ**, Hof P, Schorderet M, *The increase in cyclic-AMP levels elicited by Vasoactive Intestinal Peptide (VIP) in mouse cerebral cortical slices is potentiated by ergot alkaloids.* **Neurochem Int. 1984;6(6):751-3**

20 - Schorderet M, Hof P, **Magistretti PJ**, *The effects of VIP on cyclic AMP and glycogen levels in vertebrate retina.* **Peptides. 1984 Mar-Apr;5(2):295-8**

19 - **Magistretti PJ**, Morrison JH, Shoemaker WJ, Bloom FE, *Morphological and functional correlates of VIP neurons in cerebral cortex.* **Peptides. 1984 Mar-Apr;5(2):213-8**

18 - **Magistretti PJ**, Schorderet M, *VIP and noradrenaline act synergistically to increase cyclic AMP in cerebral cortex.* **Nature. 1984 Mar 15-21;308(5956):280-2**

17 - Morrison JH, **Magistretti PJ**, Benoît R, Bloom FE, *The distribution and morphological characteristics of the intracortical VIP-positive cell: an immunohistochemical analysis.* **Brain Res. 1984 Feb 6;292(2):269-82**

16 - **Magistretti PJ**, Manthorpe M, Bloom FE, Varon S, *Functional receptors for vasoactive intestinal peptide in cultured astroglia from neonatal rat brain.* **Regul Pept. 1983 Apr;6(1):71-80**

15 - Morrison JH, Benoît R, **Magistretti PJ**, Bloom FE, *Immunohistochemical distribution of prosomatostatin-related peptides in cerebral cortex.* **Brain Res. 1983, 262, 344-351**

14 - **Magistretti PJ**, Morrison JH, Shoemaker WJ, Bloom FE, *Effect of 6-hydroxydopamine lesions on norepinephrine-induced 3H-glycogen hydrolysis in mouse cortical slices.* **Brain Res. 1983 Feb 14;261(1):159-62**

13 - Morrison JH, Benoît R, **Magistretti PJ**, Ling N, Bloom FE, *Immunohistochemical distribution of pro-somatostatin-related peptides in hippocampus.* **Neurosci. Lett. 1983, 34, 137-142**

12 - Staunton DA, **Magistretti PJ**, Koob GF, Shoemaker WJ, Bloom FE, *Dopaminergic supersensitivity induced by denervation and chronic receptor blockade is additive.* **Nature. 1982 Sep 2;299(5878):72-4**

11 - Adler R, **Magistretti PJ**, Hyndman A, Shoemaker WJ, *Purification and cytochemical identification of neural and non-neural cells in mixed and purified chick embryo retina cultures.* **Develop. Neurosci. 1982, 5, 27-39**

10 - Staunton DA, **Magistretti PJ**, Shoemaker WJ, Deyo SN, Bloom FE, *Effects of chronic lithium treatment on dopamine receptors in the rat corpus striatum. II. No effect on denervation or neuroleptic induced supersensitivity.* **Brain Res. 1982 Jan 28;232(2):401-12**

9 - Staunton DA, **Magistretti PJ**, Shoemaker WJ, Bloom FE, *Effects of chronic lithium treatment on dopamine receptors in the rat corpus striatum. I. Locomotor activity and behavioral supersensitivity.* **Brain Res. 1982 Jan 28;232(2):391-400**

8 - Schorderet M, Sovilla JY, **Magistretti PJ**, *VIP- and glucagon-induced formation of c-AMP in intact retinae in vitro.* **Eur J Pharmacol. 1981 Apr 24;71(1):131-3**

7 - **Magistretti PJ**, Morrison JH, Shoemaker WJ, Sapin V, Bloom FE, *Vasoactive intestinal polypeptide induced glycogenolysis in mouse cortical slices: a possible regulatory mechanism for the local control of energy metabolism.* **Proc Natl Acad Sci U S A. 1981 Oct;78(10):6535-9**

6 - Forster A, **Magistretti PJ**, Schorderet M, *Effects of dobutamine on c-AMP accumulation induced by the stimulation of dopamine receptors in rabbit retina in vitro.* **Experientia. 1980 Sep 15;36(9):1108-10**

5 - Sovilla JY, **Magistretti PJ**, Schorderet M, *Potentiation of apomorphine-induced climbing behavior in mice by d-LSD.* **Prog Neuropsychopharmacol. 1979;3(5-6):503-11**

4 - Schorderet M, **Magistretti PJ**, *The isolated retina of mammals: a useful preparation for enzymatic (adenyl-cyclase) or binding studies of dopamine receptors.* **Neurochem. Int. 1979, 1, 337-353**

3 - **Magistretti PJ**, Schorderet M, *Dopamine receptors in bovine retina: characterization of 3H-spiroperidol binding and its use for screening dopamine receptor affinity of drugs.* **Life Sci. 1979 Nov 5;25(19):1675-86**

2 - Schorderet M, Mc Dermed J, **Magistretti PJ**, *Dopamine receptors in rabbit retina: a pharmacological and stereochemical analysis using semi-rigid analogs of dopamine (aminotetralins) and thioxanthenes isomers.* **J Physiol (Paris). 1978;74(5):509-13**

1 - **Magistretti PJ**, Schorderet M, *Differential effects of benzamides and thioxanthenes on dopamine-elicited accumulation of c-AMP in isolated rabbit retina.* **Naunyn Schmiedebergs Arch Pharmacol. 1978 Jun;303(2):189-91**

REFEREED REVIEW ARTICLES

45 - Boury-Jamot B, Halfon O, Magistretti PJ, Boutrel B. *Lactate release from astrocytes to neurons contributes to cocaine memory formation.* **Bioessays. 2016 Oct 4. doi: 10.1002/bies.201600118. [Epub ahead of print]**

44 - Boutrel B, Magistretti PJ. *A Role for Lactate in the Consolidation of Drug-Related Associative Memories.* **Biol Psychiatry. 2016 Jun 1;79(11):875-7. doi: 10.1016/j.biopsych.2016.04.010.**

43 - Chatton JY, Magistretti PJ, Barros LF. *Sodium signaling and astrocyte energy metabolism.* **Glia. 2016 Oct;64(10):1667-76. doi: 10.1002/glia.22971.**

42 - Petit JM, Magistretti PJ, *Regulation of neuron-astrocyte metabolic coupling across the sleep-wake cycle.* **Neuroscience. 2015 Dec 17. pii: S0306-4522(15)01090-8.**

41 - Elsayed M, Magistretti PJ, *A New Outlook on Mental Illnesses: Glial Involvement Beyond the Glue.* **Front Cell Neurosci. 2015 Dec 16;9:468.**

40 - Marquet P, Depeursinge C, Magistretti PJ, *Review of quantitative phase-digital holographic microscopy: promising novel imaging technique to resolve neuronal network activity and identify cellular biomarkers of psychiatric disorders.* **Neurophotonics. 2014 Oct;1(2):020901.**

39 - Allison DB, Bassaganya-Riera J, Burlingame B, Brown AW, le Coutre J, Dickson SL, van Eden W, Garssen J, Hontecillas R, Khoo CS, Knorr D, Kussmann M, Magistretti PJ, Mehta T, Meule A, Rychlik M, Vögele C, *Goals in Nutrition Science 2015-2020.* **Front Nutr. 2015 Sep 8;2:26.**

38 - Finsterwald C, Magistretti PJ, Lengacher S, *Astrocytes: New Targets for the Treatment of Neurodegenerative Diseases.* **Curr Pharm Des. 2015;21(25):3570-81**

37 - Marquet P, Depeursinge C, Magistretti PJ, *Review of quantitative phase-digital holographic microscopy: promising novel imaging technique to resolve neuronal network activity and identify cellular biomarkers of psychiatric disorders.* **Neurophotonics. 2014 Oct;1(2):020901. doi: 10.1117/1.NPh.1.2.020901. Epub 2014 Sep 22**

36 – Magistretti PJ and Allaman I, *A cellular perspective on brain energy metabolism and imaging* **Neuron, 2015, 86 : 883 - 901**

35 - Demetrius LA, Magistretti PJ, Pellerin L, *Alzheimer's disease: the amyloid hypothesis and the Inverse Warburg effect.* **Front Physiol. 2015 Jan 14;5:522**

34 - Petit JM, Burlet-Godinot S, Magistretti PJ, Allaman I, *Glycogen metabolism and the homeostatic regulation of sleep.* **Metab Brain Dis. 2014 Nov 16. [Epub ahead of print]**

33 - Marquet P, Depeursinge C, Magistretti PJ. *Exploring neural cell dynamics with digital holographic microscopy.* **Annu Rev Biomed Eng. 2013;15:407-31**

32 - Devor A, Bandettini PA, Boas DA, Bower JM, Buxton RB, Cohen LB, Dale AM, Einevoll GT, Fox PT, Franceschini MA, Friston KJ, Fujimoto JG, Geyer MA, Greenberg JH, Halgren E, Hämäläinen MS, Helmchen F, Hyman BT, Jasanoff A, Jernigan TL, Judd LL, Kim SG, Kleinfeld D, Kopell NJ, Kutas M, Kwong KK, Larkum ME, Lo EH, Magistretti PJ, Mandeville JB, Masliah E, Mitra PP, Mobley WC, Moskowitz MA, Nimmerjahn A, Reynolds JH, Rosen BR, Salzberg BM, Schaffer CB, Silva GA, So PT, Spitzer NC, Tootell RB, Van Essen DC, Vanduffel W, Vinogradov SA, Wald LL, Wang LV, Weber B, Yodh AG, *The challenge of connecting the dots in the B.R.A.I.N.* **Neuron. 2013 Oct 16;80(2):270-4**

31 - Martin JL, Magistretti PJ, Allaman I, *Regulation of neurotrophic factors and energy metabolism by antidepressants in astrocytes.* **Curr Drug Targets. 2013 Oct;14(11):1308-21**

30 - Pellerin L, **Magistretti** PJ, *Sweet sixteen for ANLS.* **J Cereb Blood Flow Metab. 2012, ;32(7):1152-66**

29 - Bélanger M, Allaman I, Magistretti PJ, *Brain energy metabolism: focus on astrocyte-neuron metabolic cooperation.* **Cell Metab**. **2011, 14(6):724-38**

28 - Allaman I, Bélanger M, Magistretti PJ, *Astrocyte-neuron metabolic relationships: for better and for worst.* **Trends Neurosci. 2011 Feb;34(2):76-87**

27 - Arminjon M, Ansermet F, Magistretti PJ, *Emergence of the cerebral self, from Theodor Meynert to Antonio Damasio.* **Psychiatr. Sci. Hum. Neurosci. (2011) 9:153-161**

26 - Magistretti PJ, *Neuron-glia metabolic coupling and plasticity*. **Exp Physiol. 2011 Apr;96(4):407-10**

25 - Arminjon M, Ansermet F, Magistretti PJ, *The homeostatic psyche: Freudian theory and somatic markers.* **J Physiol Paris. 2010 Nov;104(5):272-8**

24 - Jolivet R, Allaman I, Pellerin L, Magistretti PJ, Weber B, *Comment on recent modelling studies of astrocyte-neuron metabolic interactions.* **J Cereb Blood Flow Metab. 2010 Dec;30(12):1982-6**

23 - Bélanger M, Magistretti PJ, *The role of astroglia in neuroprotection.* **Dialogues Clin Neurosci. 2009;11(3):281-95**

22 - Magistretti PJ, *Role of glutamate in neuron-glia metabolic coupling*. **Am J Clin Nutr. 2009 Sep;90(3):875S-880S**

21 - Pellerin L, Bouzier-Sore AK, Aubert A, Serres S, Merle M, Costalat R, Magistretti PJ, *Activity-dependent regulation of energy metabolism by astrocytes: An update.* **Glia. 2007 Sep;55(12):1251-62**

20 - Magistretti PJ, *Neuron-glia metabolic coupling and plasticity*. **J Exp Biol. 2006 Jun;209(Pt 12):2304-11**

19 - Illes J, Blakemore C, Hanson MG, Hensch TK, Leshner A, Maestre G, Magistretti PJ, Quirion R, Strata P, *International perspective in engaging the public in neuroethics.* **Nat Rev Neurosci. 2005 Dec;6(12):977-82**

18 - Pellerin L, Magistretti PJ, *Empiricism and rationalism: two paths toward the same goal*. **J Cereb Blood Flow Metab. 2004 Nov;24(11):1240-1**

17 - Pellerin L, Magistretti PJ, *Neuroenergetics: calling upon astrocytes to satisfy hungry neurons.* **Neuroscientist. 2004 Feb;10(1):53-62**

16 - Pellerin, L, Magistretti PJ, *Food for thought: challenging the dogmas.* **J Cereb Blood Flow Metab. 2003 Nov;23(11):1282-6**

15 - Slosman DO, Ludwig C, Zerarka S, Pellerin L, Chicherio C, De Ribaupierre A, Annoni JM, Bouras C, Herrmann F, Michel JP, Giacobini E, Magistretti PJ, *Brain energy metabolism in Alzheimer's disease: 99mTc-HMPAO SPECT imaging during verbal fluency and role of astrocytes in the cellular mechanism of 99mTc-HMPAO retention.* **Brain Res Brain Res Rev. 2001 Oct;36(2-3):230-40**

14 - Magistretti PJ, *Cellular bases of functional brain imaging: insights from neuron-glia metabolic coupling.* **Brain Res. 2000 Dec 15;886(1-2):108-112**

13 - Magistretti PJ, Pellerin L, *The astrocyte-mediated coupling between synaptic activity and energy metabolism operates through volume transmission.* **Prog Brain Res. 2000;125:229-40**

12 - Magistretti PJ, Pellerin L, *Cellular mechanisms of brain energy metabolism and their relevance to functional brain imaging.* **Philos Trans R Soc Lond B Biol Sci. 1999 Jul 29;354(1387):1155-63**

11 - Magistretti PJ, Pellerin L, Rothman DL, Shulman RG, *Energy on demand.* **Science 22 January 1999: Vol. 283 no. 5401 pp. 496-497**

10 - Magistretti PJ, Pellerin L, *Mécanismes cellulaires du métabolisme énergétique cérébral: implications pour l'imagerie fonctionnelle.* **MS. Médecine sciences, vol. 15, num. 4, p. 451-456, 1999**

9 - Magistretti PJ, Pellerin L, *The cellular bases of functional brain imaging: Evidence for astrocyte-neuron metabolic coupling.* **Neuroscientist November 1997 vol. 3 no. 6 361-365**

8 - Pellerin L, Stolz M, Sorg O, Martin JL, Deschepper CF, Magistretti PJ, *Regulation of energy metabolism by neurotransmitters in astrocytes in primary culture and in an immortalized cell line.* **Glia. 1997 Sep;21(1):74-83**

7 - Magistretti PJ, Pellerin L, *The contribution of astrocytes to the 18F-2-deoxyglucose signal in PET activation studies.* **Mol Psychiatry. 1996 Dec;1(6):445-52**

6 - Magistretti PJ, Pellerin L, *Cellular bases of brain energy metabolism and their relevance to functional brain imaging: Evidence for a prominent role of astrocytes.* **Cereb Cortex. 1996 Jan-Feb;6(1):50-61**

5 - Tsacopoulos M, Magistretti PJ, *Metabolic coupling between glia and neurons.* **J Neurosci. 1996 Feb 1;16(3):877-85**

4 - Magistretti PJ, *VIP neurons in the cerebral cortex.* **Trends in Pharmacological Sciences, Volume 11, Issue 6, June 1990, Pages 250-254**

3 - Magistretti PJ, Morrison JH, *Noradrenaline- and vasoactive intestinal peptide-containing neuronal systems in neocortex: functional convergence with contrasting morphology.* **Neuroscience. 1988 Feb;24(2):367-78**

2 - Magistretti PJ, Morrison JH, *VIP neurons in the neocortex*. **Trends in Neurosciences, Volume 8, 1985, Pages 7-8**

1 - Morrison JH, Magistretti PJ, *Monoamines and peptides in cerebral cortex.* **Trends in Neurosciences, Volume 6, 1983, Pages 146-151**

COMMENTARIES

6 - Magistretti PJ. *Imaging brain aerobic glycolysis as a marker of synaptic plasticity*. **Proc Natl Acad Sci U S A. 2016 Jun 28;113(26):7015-6. doi: 10.1073/pnas.1607423113**

5 - Magistretti PJ. *Synaptic plasticity and the Warburg effect.* **Cell Metab. 2014 Jan 7;19(1):4-5**

4 - Magistretti PJ, *Low-cost travel in neurons.* **Science. 2009 Sep 11;325(5946):1349-51**

3 - Magistretti PJ, Allaman I, *Glycogen: a Trojan horse for neurons*. **Nat Neurosci. 2007 Nov;10(11):1341-2**

2 - Pellerin L, Magistretti PJ, *Let there be (NADH) light*. **Science. 2004 Jul 2;305(5680):50-2**

1 - Pellerin L, Magistretti PJ, *How to balance the brain energy budget while spending glucose differently?* **J Physiol. 2003 Jan 15;546(Pt 2):325**

CHAPTERS IN TEXTBOOKS

13 - Alberini, C.M., Ansermet, F., and Magistretti, P. (2013). Memory Reconsolidation, Trace Reassociation and the Freudian Unconscious. (Amsterdam: Elsevier), pp. 293–312.

12 - Magistretti PJ, (2008) *Brain Energy Metabolism*. In: **Fundamental Neuroscience, 3rd Edition. Squire L,** Berg D, Bloom FE, Du Lac S, Ghosh A, Spitzer N, **Academic Press, 271-293**

11 - Magistretti PJ (2004) *Brain Energy Metabolism*. In: **From Molecules to Networks.** Byrne JH, Roberts JL, **Elsevier Academic Press, 67-90**

10 - Magistretti PJ, Ranson B (2002) *Astrocytes.* In: **Psychopharmacology, the 5th Generation of Progress.** Davis KL, Charney D, Coyle JT, Nemeroff C**, eds, Lippincott Williams & Wilkins, 135-145**

9 - Magistretti PJ, Pellerin L, Bonvento G (2002) *Neurotransmitters: metabolic and vascular effects.* In: **Cerebral Blood Flow and Metabolism.** Edvinsson L, Krause DN, **Lippincott Williams & Wilkins, 162-171**

8 - Magistretti PJ, Pellerin L (1999) *Regulation of cerebral energy metabolism.* In: **Medical Radiology - Diagnostic Imaging and Radiation Oncology. Volume Functional MRI.** Moonen C, Bandettini PA, **Springer-Verlag, 25-34**

7 - Magistretti PJ (1999) *Brain Energy Metabolism* In **Fundamental Neuroscience.** Zigmond M, Bloom FE, Landis S, Roberts J, Squire L, **Academic Press, 389 - 413**

6 - Magistretti PJ (1997) *Coupling of Cerebral Blood Flow and Metabolism.* In: **Primer on Cerebrovascular Diseases.** Welch KMA, Caplan L, Reis DJ, Siesjö B, Weir B, **Academic Press, 70 - 75**

5 - Magistretti PJ, Pellerin L, Martin JL (1995) *Brain Energy Metabolism: An Integrated Cellular Perspective***.** In: **Psychopharmacology: The Fourth Generation of Progress.** Bloom FE, Kupfer DJ, **Raven Press, 657 - 670**

4 - Schorderet M, Magistretti PJ (1992) *Anti-parkinsoniens et médicaments de divers troubles moteurs.* In : **Pharmacologie : des concepts fondamentaux aux applications thérapeutiques.** Schorderet M, **Frison-Roche et Slatkine, pp. 389 - 401**

3 - Magistretti PJ (1992) *Opianalgésiques et peptides endogènes.* In : **Pharmacologie: des concepts fondamentaux aux applications thérapeutiques**. Schorderet M, **Frison-Roche et Slatkine, pp. 321-336**

2 - Schorderet M, Magistretti PJ (1988) *Anti-parkinsoniens et médicaments de divers troubles moteurs.* In : **Pharmacologie : des concepts fondamentaux aux applications thérapeutiques.** Schorderet M, **Frison-Roche et Slatkine pp. 385-397**

1 - Magistretti PJ (1988) *Opianalgésiques et peptides endogènes.* In: **Pharmacologie: des concepts fondamentaux aux applications thérapeutiques.** Schorderet M, **Frison-Roche et Slatkine pp. 321-336**

BOOK CHAPTERS

11 - Magistretti P, Chatton JY, Pellerin L (2002) *The role of astrocytes in coupling synaptic activity to glucose utilization.* In : **The Tripartite Synapse Glia in Synaptic Transmission.** Volterra A, Magistretti PJ, Haydon P.G, **Oxford University Press, 75-83**

10 - Magistretti PJ, Joray S, Pellerin L (2001) *Brain energy metabolism: cellular aspects and relevance to functional brain imaging*. In: **Functional Neurobiology of Aging.** Hof PR, Mobbs CV, **Academic Press, San Diego, 203 – 209**

9 - Magistretti PJ, Journot L, Bockaert J, Martin JL (2000) *Brain PACAP/VIP receptors: regional distribution, functional properties and physiological relevance.* In: **Handbook of Chemical Neuroanatomy, Vol. 13, Neuropeptide Receptors**. Hökfelt T, Björklund A, Quirion, R, **Elsevier. 45 – 77**

8 - Magistretti PJ, Pellerin L, Bittar PG (1997) *Role of neuron-glia interactions in coupling neuronal activity to energy metabolism: Implications for functional brain imaging.* In: **Neurochemistry,** Teelken A, Korf J, **Plenum Press, 555 - 560**

7 - Slosman DO, Magistretti PJ (1997) *Biological basis of cerebral perfusion SPECT.* In : **SPECT in Neurology and Psychiatry.** De Deyn RA, Dierckx RA, Pickut BA, **John Libbey & Company, 513 - 519**

6 - Magistretti PJ, Pellerin L (1997) *Cellular bases of functional brain imagin, In:* **Localization to astrocytes of the 2-deoxyglucose signal in PET activation studies. Advances in Experimental Medicine and Biology, 413: 161 - 163**

5 - Magistretti PJ (1994) *Vasoactive Intestinal peptide and Noradrenaline regulate energy metabolism in astrocytes: A physiological function for the control of local homeostasis within the CNS*. In: **Progress in Brain Research.** Bloom FE, **Elsevier 100 : 87 - 93**

4 - Magistretti PJ, Sorg O, Martin JL (1993) *Regulation of glycogen metabolism in astrocytes: Physiological, pharmacological and pathological aspects.* In: **Pharmacology of Astrocytes.** Murphy S, **Academic Press, 243-265**

3 - Magistretti PJ, Martin JL, Hof PR, Palacios JM (1992) *Vasoactive intestinal peptide (VIP) receptors.* In: **Handbook of Chemical Neuroanatomy, vol. 11.** Hökfelt T, Bjorklund A, Kuhar M, **Elsevier, 347-395**

2 - Magistretti PJ (1987) *Biochemical approaches to the study of peptide actions.* In: **Neuromethods**. Boulton AA, Baker GB, Pittman QJ, **Humana Press, pp. 245-297**

1 - Schorderet M, Magistretti PJ (1983) *Comparative aspects of the adenylate cyclase system in retina.* In : **Progress in Non-Mammalian Brain Research, vol. II**. Bolis L, Nistico G, **CRC Press, pp. 185-211**

OTHER REVIEW ARTICLES

13 - Ghika-Schmid F, Ansermet F, Magistretti PJ (2001) *Stress et mémoire.* **Ann. Méd. Psychol. 159, 632-638**

12 - Badaut J, Hirt L, Regli L, Villemure JG, Bogousslavsky J, Magistretti PJ (2000) *Régénération cellulaire neuronale post-ischémique: potentiel thérapeutique.* **Med. Hyg. 2318, 2032-2037**

11 - Magistretti PJ, Pellerin L (1999) *The role of astrocytes in coupling synaptic activity to glucose utilization in the brain.* **NIPS, 14, 177 – 182**

10 - Martin JL, Magistretti PJ (1998) *Regulation of gene expression by neurotransmitters in the central nervous system.* **Eur. Neurol. 39, 129-134**

9 - Magistretti PJ, Pellerin L (1997) *Metabolic coupling during activation. A cellular view.* **Exp. Med. Biol. 413, 161-166**

8 - Schaad PJ, Magistretti PJ, Schorderet M (1991) *Prostanoids and their role in cell-interactions in the central nervous system.* **Neurochem. Int. Vol 18, Issue 3, 1991, 303-322**

7 - Magistretti PJ (1990) *A la recherche du langage des neurotransmetteurs.* **Med. Hyg. 1844, 1778-1789**

6 - Magistretti PJ (1988) *Regulation of glycogenolysis by neurotransmitters in the Central Nervous System.* **Diabete Metab 14, 237-246**

5 - Magistretti PJ (1987) *Les neuropeptides, ou les rencontres du 3ème type dans le cerveau.* **Cahiers de la Faculté de Médecine, No 15, 49-72, Université de Genève**

4 - Magistretti PJ (1987) *Peptides et système nerveux central.* **Med. Hyg. 45, 1250-1257**

3 - Magistretti PJ (1986) *Intercellular communication mediated by VIP in the cerebral cortex.* **Peptides, Vol 7, Suppl 1, 1986, 169-173**

2 - Pentreath VW, Seal LN, Morrison JN, Magistretti PJ (1986) *Transmitter mediated regulation of energy metabolism in nervous tissue at the cellular level.* **Neurochemistry International, Vol 9, Issue 1, 1986, 1-10**

1 - Magistretti PJ (1986) *Régulation du métabolisme énergétique dans le cortex cérébral par les neurones à VIP (Vasoactive Intestinal Peptide): un exemple de neurotransmission peptidergique.* **Neurochirurgie 32, 324-331**

ARTICLES IN PROCEEDINGS OF SYMPOSIA

22 - Magistretti PJ, Cardinaux JR, Martin JL (1998) *VIP and PACAP in the CNS: regulators of glial energy metabolism and modulators of glutamatergic signaling.* **Ann. N.Y. Acad. Sci. 865, 213-225**

21 - Slosman DO, Magistretti PJ (1996) *Cerebral SPECT imaging: advances in radiopharmaceuticals and quantitative analysis.* In **Alzheimer Disease: From molecular biology to therapy.** Becker R, Giacobini E, Robert P, Birkhäuser, **Boston, 445 – 450**

20 - Magistretti PJ, Bittar P, Pellerin L (1996) *Role of neuron-glia interactions in brain energy metabolism: implications for neurodegenerative disorders.* In **Alzheimer Disease: From molecular biology to therapy.** Becker R, Giacobini E, Robert P, Birkhäuser, **Boston, 113 – 119**

19 - Magistretti PJ, Pellerin L (1996) *Cellular mechanisms of brain energy metabolism: Relevance to functional brain imaging and to neurodegenerative disorders.* **Ann. N.Y. Acad. Sci., Vol 777, 380 - 387**

18 - Magistretti PJ, Sorg O, Yu N, Pellerin L, De Rham S, Martin JL (1994) *Regulation of astrocyte energy metabolism by neurotransmitters.* **Renal Physiol. and Biochem., 17: 168 - 171**

17 - Magistretti PJ, Sorg O, Yu N, Martin JL (1994) *VIP neurons in the cerebral cortex: Promiscuous cells with homeostatic functions.* In: **VIP, PACAP and related peptides.** Rosselin et al. **World Scientific, 239 - 252**

16 - Magistretti PJ (1991) *Preface*, **Epilepsy Res. 10, 1-2**

15 - Magistretti PJ (1991) *Actions of neurotransmitters on non-neuronal cells as evidence for the existence of intrinsic neuronal circuits controlling local energy metabolism and cellular homeostasis within the central nervous system.* **Alfred Benzon Symposium 31, Ingvar, DH. et al. (eds), Munksgaard, Copenhagen, pp. 94-107**

14 - Magistretti PJ (1991) *Les bases biologiques de la pensée : le langage des neurotransmetteurs.* **Dolentium Hominum 16, 37-41 (Cité du Vatican)**

13 - Magistretti PJ, Martin JL, Hof PR (1990) *Modulation of energy metabolism by Vasoactive Intestinal Peptide, adenosine and K+ in the cerebral cortex: focus on the cellular level.* In: **Neuropsychopharmacology, Proceedings of the 16th CINP Congress**. Bunney WE, Hippius H, Laakmann G, Schmauss M, **pp. 474-487**

12 - Martin JL, Magistretti PJ (1990) *Release of vasoactive intestinal peptide (VIP) in mouse neocortex: Ca2+-channels subtypes and involvement of arachidonic acid metabolites.* In: **Control of membrane function**. Ritchie JM, Magistretti PJ, Bolis CL, **Prog. Cell Res. 1, Elsevier, pp. 49-6**0

11 - Magistretti PJ, Hof PR (1989) *Abnormal regulation of glycogen metabolism by neurotransmitters and potassium in the neocortex of the spontaneously epileptic mouse mutants quaking and tottering.* In: **Reflex seizures and reflex epilepsies**. Beaumanoir A, Gastaut H, Naquet R, **Médecine et Hygiène, Genève, pp. 25-30**

10 - Magistretti PJ, Hof PR, Martin JL, Stoyanov T (1989) *Neurotransmitters and their involvement in the regulation of energy metabolism in the nervous system.* In: **Peripheral Neuropathies 1988, what is significantly new?** Assal, JPh, Liniger C, **Fidia Res. Series, 21, Liviana Press, Padova, pp. 29-44**

9 - Magistretti PJ, Dietl MM, Hof PR, Martin JL, Palacios JM, Schaad N, Schorderet M (1988) *VIP as a mediator of intercellular communication in the cerebral cortex: release, receptor, actions and interactions with norepinephrine.* **Ann. N.Y. Acad. Sci. 527, 110-129**

8 - Magistretti PJ, Schorderet M, Hof PR, Schaad N (1987) *Interactions between VIP and norepinephrine, ergot alkaloids and prostanoids in mouse cerebral cortex.* In: **Receptor-Receptor Interactions**. Fuxe K, Agnati L, **Wenner Gren Symposium Series, Mac Millan, pp. 272-283**

7 - Magistretti PJ (1986) *VIP-containing neurons in the cerebral cortex: Cellular actions and interactions with the noradrenergic system.* In: **Neurology and Neurobiology, Volume 20, Ion Channels in Neural Membranes.** Ritchie JM, Bolis CL, Keynes RD, **Alan R Liss, Inc., pp. 323-331**

6 - Magistretti PJ (1985) *Metabolic actions of Vasoactive Intestinal Polypeptide and monoamines in the cerebral cortex.* In: **Discussions in Neuroscience, vol. II**. Feindel W, Frackowiak RSJ, Gadian D, Magistretti PJ, Zalutsky MR, **Brain metabolism and imaging : a report of the 1984 FESN Study Group on 'Brain metabolism and Imaging', p. 37-39**

5 - Schorderet M, Magistretti PJ (1984) *Neuropeptides in retina: morphological and biochemical aspects.* In: **Comparative Physiology of Sensory Mechanisms.** Bolis L, Keynes RD, Maddrel S, **Cambridge Press, pp. 421-439**

4 - Bloom FE, Baetge G, Deyo S, Ettenberg A, Koda L, Magistretti PJ, Shoemaker WJ, Staunton DA (1983) *Chemical and physiological aspects of the actions of lithium and antidepressant drugs.* **Neuropharmacol. 22, 359-365**

3 - Siggins GR, McGinty JF, Morrison JH, Pittman QJ, Zieglgansberger W, Magistretti PJ, Gruol DL (1982) *The role of neuropeptides in the hippocampal formation.* **Adv. Biochem. Psychopharmacol. 33, 413-422**

2 - Bloom FE, Magistretti PJ, Shoemaker WJ, Siggins GR, Staunton DA (1980) *Pharmacological bases of psychoneuroendocrinology: preclinical assessment of clinical facts.* In: **Progress in Psychoneuroendocrinology.** Brambilla F, Racagni G, De Wied D, **Elsevier/North Holland, pp. 127-134**

1 - Magistretti PJ, Schorderet M (1980) *Attempts to develop super- or sub-sensitivity of retinal dopamine receptors after various treatments with antagonists or agonists.* **Adv. Bio Biochem. Psychopharmacol. 24, 181-184A**