

CURRICULUM VITAE: MICHELA MATTEOLI

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EDUCATION

1989 : PhD Degree (Dottorato di Ricerca), University of Pisa

1983 : Laurea in Biological Sciences - Faculty of Mathematical, Physical and Natural Sciences, University of Pisa. Graduates "Magna cum laude".

1979 : Maturita' classica , Liceo Classico, Pontedera (Pisa)

PROFESSIONAL CAREER

Since December 2016: Chair of Humanitas Neuro Center, Humanitas Clinical and Research Center, Milano

Since October 2015: Full Professor of Pharmacology, Humanitas University (on leave July 2014- June 2018)

Since July 2014: Director of the Italian CNR Institute of Neuroscience

2013-2016: Director of Neuroscience Program, Humanitas Clinical and Research Center, Milano

2011-2015: Full Professor of Pharmacology, Dept of Medical Biotechnology BIOMETRA Univ of Milano

2002-2011: Associate Professor of Pharmacology, Dept of Medical Pharmacology, Univ of Milano

Since 1997: First Researcher - National Research Council- Center of Cellular and Molecular Pharmacology

1991- 1997: Researcher - National Research Council, Center of Cytopharmacology

1989 - 1991 : Postdoctoral fellow, Yale University School of Medicine - Dept. of Cell Biology

1988- 1991: Researcher - CNR Istituto Fisiologia Centri Nervosi - Milano (on leave June 1989 -o June 1991)

1986-1988 : PhD student - CNR Center of Cytopharmacology and Dept. of Medical Pharmacology.

1983-1986 : Graduate student - Dept. of Physiology and Biochemistry University of Pisa.

HONORS AND AWARDS

- Member of Top Italian Women Scientists (TIWS)
- 2017: Cenacolo della Cultura Award to Research and Scientific Innovation (Pisa)
- 2016: Special Award from Sapio for contributions to Italian research (Rome, Montecitorio)
- 2015: Recipient of Atena Prize for scientific achievements (Rome, Campidoglio)
- 2014: Elected member of EMBO (European Molecular Biology Organization)
- 2013: Recipient of the mid-career Nature Mentoring Award 2013 (Rome, Quirinale)
- 2012: Member of the Academia Europaea, due to outstanding achievements as a researcher
- 2009: Selected Lombardy Representative for European Network of Female Entrepreneurship Ambassadors (EUROPEAN COMMISSION ENTERPRISE AND INDUSTRY DIRECTORATE-GENERAL)
- 1989: European Molecular Biology Organization (EMBO) - long term fellow
- 1989: International Brain Research Organization (IBRO) - MacArthur travel fellow

PARTICIPATION TO INTERNATIONAL SCIENTIFIC BOARDS

- 2018: Invited Member of the Life Sciences panel in the **Research Assessment of University of Helsinki**
- Since 2018: member of Higher Education, Research and CULTure (**HERCULES**) group, **Academia Europaea**
- Since 2017: Contributing member for **Faculty of 1000** (F1000Prime)
- Since 2015: Member of the Scientific Advisory Board, **Institute of Neuroscience and Psychiatry, Paris**
- 2015: Nominated International **Expert for Russian Science Foundation** (RSF)
- 2014-2017: Member of the Advisory Committee of the **Armenise Harvard-Italy Foundation**
- 2014: Member of the Panel for **Science Foundation Ireland** (SFI)
- Since 2014: Member of the Advisory Committee of the **EBRI Foundation**
- Since 2013: member of the Scientific Advisory Board of the **Paris School of Neuroscience** (ENP).
- Since 2013: member of the International Scientific Committee of the **Umberto Veronesi Foundation**
- Since 2013 Member of the Scientific Committee of the **Centro di Cultura Scientifica A. Volta**.
- Past Member of the Board of Directors of **the Center of Excellence for Neurodegenerative Diseases**
- Past Member of the Board of Directors of the **Italian Society for Neuroscience**
- Since 1992: Member of several national and international Committees for PhD School final examinations

INVITATIONS TO INTERNATIONAL MEETINGS (*selected, from 2005*)

- July 2019: XIV European Meeting on Glial Cell Function in Health and Disease, Porto (Chair and Speaker)
- May 2019: First International Conference "Perinatal Origins of Neuropsychiatric Disorders: from Molecular Mechanisms to Therapeutic Perspectives", Palermo

May 2019: 6th Venusberg Meeting on Neuroinflammation, Bonn

2018: Fyssen Foundation seminar series on "News insights into neuro-glia communication", Paris

2018: Eibsee Meeting on "Cellular Mechanisms of Neurodegeneration", Elbsee, Germany

2018: International meeting on Toxins, Padova

2018: Plenary Lecturer at the PostDoc Symposium, Leibniz-Institute for Molecular Pharmacology and Max-Delbrück-Center, Berlin

2017: EMBO Keynote Lecture, the Mediterranean Neuroscience Society, St Julian, Malta

2017: FENS Satellite Meeting, Pécs, Hungary

2017: École des Neurosciences Paris Île de France, 10th year International Meeting

2015: SINS Plenary Lecture, Cagliari, October 2015

2015: Falan Course on New roles for glial cells in health and disease, Rio de Janeiro, July 7th

2015: Gordon Conference on Endocannabinoids, Il Ciocco, May 24-29

2015: American Society for Neurochemistry, Atlanta USA, March 13-17

2015: IBRO Meeting, Rio De Janeiro, 6-12 July

2015: EMBO conference on Neural Development, Academia Sinica, Taipei, Taiwan, Dec. 4-7.

2014: International Meeting Advances in Biology and Treatment of Malignant Brain Gliomas, Roma

2014: Lincei Academy, Rome "Dai segnali intracellulari alla coscienza"

2013: Neurex Workshop "Synaptic release", Strasbourg, France

2013: Singapore/Italy joint workshop on Cellular and Molecular Medicine, Singapore

2012: EUSynapse Alumni Meeting, Seville, Spain

2011: Gordon Conference on Neurotrophic Factors, Newport, RI, USA

2011: 8th IBRO World Congress of Neuroscience - Florence, Symposium organizer and speaker

2011: Glial cells in (patho)physiology ISN Satellite meeting, Ljubljana, Slovenia

2011: "The Synapse from physiology to pathology" ISN Satellite meeting, Stresa, Italy

2010: invited speaker and session chair at the 13th Annual Armenise-Harvard Foundation Symposium

2010: invited speaker and chair SYNAPSE Symposium, satellite FENS, Amsterdam

2009: International Neuroscience Winter Conference, Sölden Austria

2009: International Symposium "New vistas on nicotinic receptors and synaptic physiology", Milano, Italy

2008: First European Synapse Meeting, Bordeaux, France

2008: International Meeting "Mechanism(s) of Exocytosis 2008", Ljubljana, Slovenia

2008: Gordon Conference "Cell Biology of the Neuron", New London, NH, USA

2007: " 7th IBRO World Congress of Neuroscience, Melbourne , Australia

2007: Nanoforum Meeting, Session "Nanomedicine" Milano

2006: International Meeting "Molecular and Cellular Biology of the Synapse", Paris, France

2006: Symposium "Intracellular dynamics underlying synapse formation" FENS 2006, Vienna, Austria

2005: "Recent data on neuron-glia interaction". Collège de France, Paris, France

2005: BioScience2005, Session "Mechanisms of synapse assembly and plasticity", Glasgow, UK.

FUNDING

Ongoing grants:

2018: **FISM** (Multiple Sclerosis Foundation) A humanized model of blood brain barrier (**Principal Investigator, Pilot Project 30K euro**).

2018- 2020: **Ricerca Finalizzata, Ministero della Salute** RF-2016: Mitophagy and autophagy in the ischemic brain: a new target to promote neuroprotection (**Partner, 160K euro**)

2018-2021: **H2020** TUDCA-ALS — H2020-SC1-2016-2017 (**Collaborator, WP co-lead, 140K euro**)

2018- 2020: **Progetto Accordi per la Ricerca – regione Lombardia**: Piattaforma per l'identificazione di target di rilevanza farmacologica per il trattamento di patologie del sistema nervoso e oncologiche ad elevato bisogno di cura. (**Collaborator, 600K euro -450K to the lab**)

2017-2019: **Fondazione Pisa**: Studio traslazionale dell'infiammazione nell'invecchiamento (**Principal investigator 636K euro -110K to the lab-**)

2017-2019 **AIRC**: Targeting glioblastoma cells by drug-loaded polymeric nanocarriers: translational studies toward the clinic (**Principal investigator 375K euro**)

2017- 2019 **Regione Lombardia-CNR**: Alterazioni metaboliche, stress cellulari e processi neurodegenerativi AMANDA– (**Collaborator, 200K euro -70K to the lab-**)

2017-2018 **Fondazione Vodafone**: Costruzione di una piattaforma digitale per la diagnosi e il trattamento di difetti neurologici e neuropsichiatrici (**Principal investigator, 200K euro**)

2017-2019 **Fondazione Veronesi**: Targeting brain tumor cells by drug-loaded polymeric nanoparticles – (**Principal investigator, 360K euro**)

2016-2018 **Cariplo**: A systematic molecular study of neuroimmune mechanisms in aging – (**Principal investigator, 350K euro -211K to the lab-**)

2015-2018 **Italian Ministry of Health**: Microfluidic integration of a model of the blood-brain barrier to investigate immune trafficking in multiple sclerosis (**Referent PI, 300K euro**)

Past grants

2015-2017 Cariplo (Role of the NFAT signaling pathway during aging and neurodegeneration)

2014-2015 European Center of Nanotechnology (Nanocomposite for Human Glioblastoma Imaging and Treatment)

2014-2015 Progetto CNR INVECCHIAMENTO (A low-copper diet as a preventive strategy for Alzheimer's disease)

2013-2015 Telethon (Mutant prion protein impairs delivery of voltage gated calcium channels to the presynaptic membrane: mechanisms of neurotoxicity and potential therapeutic strategies)

2013-2015 Ministry of Education University and Research (Excitatory/inhibitory balance in the central nervous system: synaptic transmission, plasticity and synaptopathies)

2012-2013 Cariplo (Toxicology of chronic exposure to engineered silver nanoparticles)

2012-2015 Responsible of grant from G. Vollaro Foundation

2011-2014 Ministry of Health (SNAP25 het mice as models to identify a safer pharmacological treatment for ADHD)

2010-2013 European Community Large-scale integrating project on Synaptic Protein Networks In Neurological and Psychiatric Diseases EUROSPIN

2009-2012 Finanziamento CARIPLO ("A micro biodevice for the assessment of neuroprotective factors in Parkinson's Disease")

2009-2011 Finanziamento CARIPLO ("Physiopathological role of the prion protein in modulation of calcium channels: implications for neurodegeneration")

2009-2011 Finanziamento Compagnia S. Paolo (The synapsins and membrane trafficking in nerve terminals)

2009-2010 Responsabile Progetto di Ateneo (Ruolo delle proteine che legano l'actina nella formazione e funzione delle reti neuronali)

2009-2010 PRIN 2008 (Sinapsine e traffico di membrane nelle terminazioni nervose: implicazioni per le malattie del sistema nervoso centrale)

2008-2010 Finanziamento Compagnia S. Paolo (Meccanismi molecolari della trasmissione dell'informazione nel SNC: dalla plasticita' sinaptica alla patogenesi delle malattie neurologiche)

2006-2009: Finanziamento CARIPLO (Brain on a chip)

2005-2007 COFIN2005 (Modulazione del traffico delle vescicole sinaptiche e del rilascio di neurotrasmettitore in neuroni GABAergici e glutamatergici)

2005-2009: European Community Integrated Project (EUSynapse From molecules to networks: understanding synaptic physiology and pathology in the brain through mouse models)

2003-2006: National Project FIRB Neuroscienze (Project Coordinator).

2001-2004: "International Human Frontier Science Program" Research Grant

2000-2003: European Comm Programme "Quality of Life and Management of Living Resources" QLG3-CT-2000-01343

1998-2000 Telethon Italia (grant 1042)

1998-2000: European Community Biotechnology Contract BIO4-98-0408

1997-1999 Il Progetto Sclerosi Multipla, Istituto Superiore di Sanita' (progetto n. 61).

1995-1997 Telethon Italia (Grant n.672).

1995-1998: "International Human Frontier Science Program" Research Grant (Project Coordinator).

1993-1994 CNR Bilateral Project "Recycling di vescicole sinaptiche e secrezione di neurotrasmettitori prima della sinaptogenesi".

1992: NATO Collaborative Research Grant (Project Coordinator)

ACTIVITY AS REFEREE

grant referee:

- National Science Foundation ; Human Frontier Science Program Organization (research grants and fellowships); The Israel Science Foundation; Research Council for Earth and Life Sciences in the Netherlands; Ministero Italiano dell'Università e della Ricerca Scientifica; Telethon Italia; Comitato di Indirizzo per la Valutazione della Ricerca in Italia (CIVR); Università di Padova; German-Israeli Foundation for Scientific Research and Development; Federazione Italiana Sclerosi Multipla ; European Research Council (advanced ERC grants); Agence Nationale de la Recherche

manuscript referee:

Science, Nature, PNAS, EMBO Journal, Brain, Neuron, Nature Comm, TINS, Journal of Cell Biology, Journal of Neuroscience, Journal of Neurobiology, Journal of Neurocytology, Journal of Cell Science, Journal of Neurochemistry, Journal of Comparative Neurology, European Journal of Cell Biology, European Journal of Neuroscience, Neuroscience, Exp Cell Research, FEBS Letters, PLoS One

ORGANIZATION OF MEETINGS AND SYMPOSIA

2018: EMBO Workshop Neural development. Taipei, Taiwan; Scientific Advisory Committee.

2016: Co-organizer of the international Meeting "More than Neurons", University of Turin

2016 and 2018: Organizer of the Como Lake International School of Neuroscience

2014: Member of the 9th FENS Forum Host Society Committee, Milano

2014: Dagli atomi al cervello, Politecnico di Milano

2013: Co-organizer of the 4th European Synapse Meeting, Bordeaux

2013: Ninth World Conference "The future of science", Venezia

2011: Symposium Organizer 8th IBRO World Congress of Neuroscience - Florence, July 14-18

2009: Member of Programme Committee FENS Meeting 2009, Amsterda

2008: Meeting "New Challenges in Neurotechnology and Nanomedicine", Università' di Milano

2008: V Meeting "Molecular Mechanisms in Neuroscience", Università' di Milano,

2008: Meeting Societa' Italiana di Neuroscienze, Università' di Milano

2007: Meeting "Glial cells in health and disease", Università' di Milano

2007: meeting "Deciphering how nerve cells talk", Università' di Milano

2007: Symposium "Synaptic vesicles and epilepsy", Societa' Italiana di Neuroscienze, Verona

2006: International Meeting Transporters, Parma

2006: Meeting ABCD, Pontignano

2006: Course Physiological imaging, Università' di Pisa

EDITORIAL ACTIVITY

Member of the Editorial Board of the following journals:

- Brain Cell Biology (Journal of Neurocytology) (2005-2009)
- Frontiers in Neuroscience (since 2008)
- European Journal of Neuroscience (Scientific Review Associate) (2008-2012)
- Archives Italiennes de Biologie - A Journal of Neuroscience (since 2009)
- American Journal of Neuroscience Research (since 2013)
- European Journal of Neurodegenerative Diseases. (since 2014)

TECHNOLOGY TRANSFER

2008-2014: Responsible of the Cell Model Platform, Fondazione Filarete for Technology Transfer, Milano

From 2007 to 2014: President and Co-founder of Neuro-Zone srl (www.neuro-zone.com)

2008: Provincia di Milano “Bando Imprese Creative e Innovative” ranked 1st (M.Matteoli Scientific Coordinator)

2008: FIXO (SME financing from Ministero del Lavoro) (Scientific Coordinator)

2007: Regione Lombardia, Misura INTEC 3 (SME financing for innovative project in the field of biotechnology and advanced materials) (Scientific Coordinator)

2007: MIUR Financing for Applied Research Project aimed at new Entrepreneurship (Scientific Coordinator)

2009: NeuroZone: Semifinal Winner of the Eurecan European Venture Contest Award. Selected among 120 award-winning high tech companies celebrated in Düsseldorf at the European Venture Summit

Patents: Co-owner (25%) European Patent. 09154389.2 dep. 05-03-2009; Coowner (10%) European patent, under deposition

THIRD MISSION (*selected, from 2014*)

- September 2018: Il tempo delle donne, **Corriere della Sera, Triennale Milano**

- June 2018: Interview, **Superquark, RAI1**, Train the Brain

- June 2018: Interview, **Obiettivo Salute Radio24**, Cervello e infiammazione

- May 2018: Conferenza, Soroptimist Club, **Progetto Nazionale SifaSTEM**, Isola d'Elba “Cosa c'è di diverso nel cervello di uomini e donne”

- April 2018: **Stem in The City**, Opening Ceremony, Teatro alla Scala, IMAGINING A NEW WORLD

- October 2017: Conferenza, **Casa della Cultura**, Milano “Dal neurone al cervello, come è e come funziona”

- October 2017: Lectures “**La Scienza a Scuola**”–Zanichelli <https://www.zanichelli.it/scuola>

- October 2016: **TEDxCNR**, Roma “La prevenzione delle malattie del cervello inizia sempre troppo tardi”
https://www.youtube.com/watch?v=_ih05A0Ypkg
- September 2016: “Cervello e differenze di genere” **Notte dei Ricercatori - Museo della Scienza** e della tecnologia, Milano.
- October 2015: “Neuroscienze e Disabilità Intellettiva: percorsi terapeutici innovativi nei disturbi del neurosviluppo”, **palazzo Montecitorio, Camera dei Deputati**
- September 2015: “CERVELLO E NEUROSCIENZE” **Notte dei Ricercatori - Museo della Scienza** e della tecnologia, Milano.
- October 2015: Elisir, RaiTre, La notte dei Ricercatori
- September 2015: “Food and brain: feeding the mind” **Expo Milano**
- June 2015: I meccanismi della memoria. **Rai Uno, Unomattina.**
- June 2014: **Palazzo Marino, Assessorato Politiche per il Lavoro**, Sviluppo Economico, Università e Ricerca, COLLOQUI PER LA SCIENZA A MILANO, “Eccellenze e Integrazione: occasioni per Milano”
- March 2014: Università La sapienza, Rome. **The future of Science**, Fondazione Veronesi, I segreti della longevità
- March 2014: Verona, **InfinitaMente**, “Yes we can, con le nostre sinapsi che cambiano”
- March 2014: **BrainForum**, Milano. Le sinapsi come magazzino della memoria: cosa succede quando si ammaliano?

MAJOR RESEARCH ACHIEVEMENTS

The scientific career of Michela Matteoli has focused on the synapse as the site of communication between neurons and, more recently, on how synapse function is affected by inflammation.

Her major scientific contributions include:

- 1) setting of a **method to monitor synaptic vesicle recycling in living neurons** -which has been used in laboratories worldwide- through which she described the maturation of synaptic vesicles recycling during synaptogenesis (Matteoli et al., J Cell Biol 1992; Verderio et al., J. Cell Biol 1994; Verderio et al., PNAS 1995; Matteoli et al. Trends in Cell Biol. 2004).
- 2) Demonstration that **clostridial toxins use synaptic vesicle recycling** as trojan horses to enter nerve terminals (Matteoli et al., PNAS 1996; Verderio et al., J Neurosci 1999; Schiavo et al., Physiol. Rev 2000; Verderio et al., EMBO Rep 2006).
- 3) Demonstration that the protein **SNAP-25, which mediates synaptic vesicle fusion and is cleaved by clostridial toxins, is differentially distributed in excitatory and inhibitory neurons** (Verderio et al., Neuron 2004), where it **controls calcium channel function** (Pozzi et al., PNAS 2008; Condliffe et al., J Biol. Chem 2010; Antonucci et al., EMBO Rep 2013; Corradini et al. Cer Cor 2012).

- 4) Demonstration that **SNAP-25 controls spine morphogenesis and postsynaptic functions** (Tomasoni et al. Nature Comm. 2013; Fossati et al., Cell Death and Differentiation 2015).

The findings reported in 3) and 4) **primarily contributed to the establishment of the key concept of “synaptopathies” i.e. brain diseases caused by synaptic dysfunctions**, and had implications for the understanding of ADHD and schizophrenia, where SNAP-25 levels are expressed at reduced levels.

In the last years M. Matteoli became interested in dissecting the concept that **environmental stimuli, and in particular inflammation, cooperate with the genetic background to induce a pathological state of the synapse**. The major contributions she obtained in this field are:

- 1) Contribution to the demonstration that **inflammation induces release of microvesicles which affect synaptic function** (Antonucci et al., EMBO J 2012; Verderio et al., Ann Neurol. 2012)
- 2) Demonstration that **IL-1 β mediated inflammation disrupts synaptic plasticity and increases the levels of MeCP2**, a protein involved in Rett syndrome and MeCP2 duplication syndrome (Tomasoni et al. eLife 2017)
- 3) Demonstration that **prenatal immune activation delays in the offspring the excitatory to inhibitory switch of GABA** and increases susceptibility to epilepsy (Corradini et al., Biol. Psych. 2018)
- 4) Demonstration that **lack of TREM2 from microglia impairs synaptic pruning and causes sociability defects** and TREM2 levels are reduced in **autistic patients** (Filipello et al., Immunity 2018)

These findings have opened a completely novel avenue of research, **leading to the new concept of immune-synaptopathies** (Pozzi et al. Frontiers Mol Neurosci 2018). Given the relevance of these findings, the journals Biological Psychiatry (Impact Factor 11,4) and Immunity (Impact Factor 22,8) have reserved their covers to these studies. Also, these findings have been reported in a Nature Feature focused on the relevance of inflammation in brain diseases (The Brain Inflamed, A. Abbott, Nature April 2018).

PUBLICATIONS

Total number of publications: 143

H index: 58 (Google scholar)

number of citations > 12, 000 (Google scholar)

total impact factor: around 950

- 1) Pellegrino M., Nencioni B. and Matteoli M. (1984) Response to axotomy of an identified leech neuron, in vivo and in culture. **Brain Res.** 298: 347-352. **(IF 2.865)**
- 2) Pellegrino M., Matteoli M. and Bertolacci L. (1985) Effect of colchicine and vinblastine on identified leech neurons. **Comp. Biochem. Physiol.** 82: 353-356 . **(IF 2.53)**

- 3) Matteoli M., Nencioni B. and Pellegrino M. (1986) Differential time course of the response to axotomy induced by cut or crush in the leech AP cell. **J. Neurobiol.** 17: 373-381 **(IF 2.803)**
- 4) Matteoli M., Haimann C., Torri Tarelli F., Polak J.M., Ceccarelli B. and De Camilli P. (1988) Differential exocytosis from small synaptic vesicles and from CGRP containing large dense core vesicles at the frog neuromuscular junction. **Proc. Natl. Acad. Sci. USA** 85: 7366-7370. **(IF 10.48)**
- 5) Matteoli M., Navone F., Haimann C., Cameron P.L., Solimena M. and De Camilli P. (1989) Secretory organelles of neurons and their relationship to organelles of other cells. **Cell Biol. Intl. Rep.**,13: 981-992.
- 6) Matteoli M., Haimann C. and De Camilli P. (1990) Substance P immunoreactivity at the frog neuromuscular junction. **Neuroscience**, 37: 271-275. **(IF 4.324)**
- 7) Matteoli M., Balbi S., Sala C., Chini B., Cimino M., Vitadello M. and Fumagalli G. (1990) Developmentally regulated expression of calcitonin gene-related peptide at the mammalian neuromuscular junction. **J. Mol. Neurosci.**, 2: 175-184. **(IF 2.351)**
- 8) Vitadello M., Matteoli M. and Gorza L. (1990) Neurofilaments proteins are co-expressed with desmin in heart conduction system myocytes. **J. Cell Science**, 97: 11-21. **(IF 6.044)**
- 9) Reetz A., Solimena M., Matteoli M., Folli F., Takei K. and De Camilli P. (1991) GABA and pancreatic b-cells: colocalization of glutamic acid decarboxylase (GAD) and GABA with synaptic-like microvesicles suggests their role in GABA storage and secretion. **EMBO J.**,10: 1275-1284. **(IF 12.634)**
- 10) Matteoli M., Takei K., Cameron R., Johnston P.A., Hurlbut P., Jahn R., Sudhof T.C. and De Camilli P. (1991) Association of rab3 with synaptic vesicles at late stages of the secretory pathway. **J. Cell Biol.** 115: 625-633. **(IF 11.118)**
- 11) Matteoli M. and De Camilli P. (1991) Molecular mechanisms in neurotransmitter release. **Current Opinion Neurobiol.**, 1: 91-97. **(IF 7.549)**
- 12) Matteoli M., Takei K., Perin M.S., Sudhof, T.C. and De Camilli, P.(1992) Exo-endocytotic recycling of synaptic vesicles in developing processes of cultured hippocampal neurons. **J. Cell Biol.** , 117: 849-861. **(IF 11.118)**
- 13) Pietrini G., Matteoli M., Banker G. and Caplan M. (1992) Isoforms of the Na-K -ATPase are present in both axons and dendrites of hippocampal neurons in culture. **Proc. Natl. Acad. Sci. USA**, 89: 8414-8418. **(IF 10.48)**
- 14) Espreafico E.M., Cheney R.E., Matteoli M., Nascimento A.A.C., De Camilli P., Larson R.E. and Mooseker M.S. (1992) Primary structure and cellular localization of chicken brain p190 (myosin V), an organelle associated unconventional myosin with calmodulin light chains. **J. Cell Biol.** 119: 1541-1557. **(IF 11.118)**
- 15) Mundigl O., Matteoli M., Daniell L., Thomas Reetz A., Metcalf A., Jahn R. and De Camilli P. (1993) Synaptic vesicle proteins in cultured hippocampal neurons: differential effects of brefeldin A in axon and dendrites. **J. Cell Biol.**, 122: 1207-1221. **(IF 11.70)**

- 16) Caporaso G.L., Takei, K., Gandy S.E., Matteoli M., Mundigl O., Greengard P. and De Camilli P. (1994) Microscopic and biochemical examination of the intracellular traffic of the Alzheimer b/A4 Amyloid Precursor Protein. **J. Neurosci.**,14: 3122-3138. **(IF 8.657)**
- 17) Verderio C., Coco S., Fumagalli G. and Matteoli M. (1994) Spatial changes in calcium signaling during the establishment of neuronal polarity. **J. Cell Biol.**, 126: 1527-1536. **(IF 12.149)**
- 18) Mundigl O., Verderio C., Kraszewski K., De Camilli P. and Matteoli M. (1995) A radioimmunoassay to monitor synaptic activity in hippocampal neurons in vitro. **Eur. J. of Cell Biol.**, 66: 246-256. **(IF 2.892)**
- 19) Kraszewski K., Mundigl O., Daniell L., Verderio C., Matteoli M. and De Camilli P. (1995) Synaptic vesicle dynamics in living cultured hippocampal neurons visualized with CY3-conjugated antibodies directed against the luminal domain of synaptotagmin. **J. Neurosci**, 15: 4328-4342. **(IF 8.205)**
- 20) Verderio C., Coco S., Fumagalli G. and Matteoli M. (1995) Calcium-dependent glutamate release during neuronal development and synaptogenesis: different involvement of w-aga-iva and w-ctx-gvia sensitive channels. **Proc. Natl. Acad. Sci.**, 92: 6449-6453. **(IF 10.52)**
- 21) Matteoli M., Verderio C., Krawzeski K., Mundigl O., Coco S., Fumagalli G. and De Camilli P. (1995) Mechanisms of synaptogenesis in hippocampal neurons in primary culture. **J. Physiol.** (Paris), 89: 51-55. **(IF 1.062)**
- 22) Matteoli M., Verderio C., Rossetto O., Iezzi N., Coco S., Schiavo G. and Montecucco C. (1996) Synaptic vesicle endocytosis mediates the entry of tetanus neurotoxin into hippocampal neurons. **Proc. Natl. Acad. Sci.**, 93: 13310-13315. **(IF 10.244)**
- 23) Coco S., Verderio C., Trotti D., Rothstein J.D., Volterra A. and Matteoli M. (1997) Extra-synaptic localization of the glutamate transporter EAAC1 in cultured hippocampal neurons. **Eur. J. Neurosci.**, 9: 1902-1910. **(IF 3.82)**
- 24) Coco S, Verderio C, De Camilli P., Matteoli M.(1998) Calcium dependence of synaptic vesicle recycling before and after synaptogenesis. **J. Neurochem.**, 71: 1987-1992. **(IF 4.651)**
- 25) Bacci A., Verderio C., Pravettoni E. and Matteoli M. (1999) Role of glial cells in synaptic function. **Phil. Trans. Roy. Soc.**, 354: 403-409 **(IF 2.65)**
- 26) Bacci A., Verderio C., Pravettoni E. and Matteoli M. (1999) Synaptic and intrinsic mechanisms shape oscillations in hippocampal neurons. **Eur. J. Neurosci.**, 11: 389-397. **(IF 3.899)**
- 27) Verderio C., Coco S., Rossetto O., Montecucco C. and Matteoli M. (1999) Internalization and proteolytic action of botulinum toxins in CNS neurons and astrocytes. **J. Neurochem.**, 73: 372-379 **(IF 4.906)**
- 28) Verderio C., Bacci A., Coco S., Pravettoni E., Fumagalli G. and Matteoli M. (1999) Astrocytes are required for the oscillatory activity in hippocampal neurons. **Eur. J. Neurosci.**, 11: 2793-2800. **(IF 3.899)**
- 29) Verderio C., Coco S., Bacci A., Rossetto O., De Camilli P., Montecucco C. and Matteoli M. (1999) Tetanus toxin blocks the exocytosis of synaptic vesicles clustered at synapses, but not of synaptic vesicles in isolated axons. **J. Neurosci.**, 19: 6723-6732. **(IF 8.955)**
- 30) Calegari F., Coco S., Taverna E., Bassetti M., Verderio C., Corradi N., Matteoli M. and Rosa P. (1999) A regulated secretory pathway in cultured hippocampal astrocytes. **J. Biol. Chem.**, 274: 22539-22547 **(IF 7.666)**

- 31) Coco S., Raposo G., Fontaine J.J., Takamori S., Zharaoui A., Jahn R., Matteoli M., Louvard D. and Galli T. (1999) Subcellular localization of TI-VAMP in neuronal cells: evidence for a novel membrane compartment. **J. Neurosci.**, 19: 9803-9812. (IF 8.955)
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