NAME	POSITION TITLE
PIETRINI, GRAZIA	SENIOR RESEARCHER AT THE DEPARTMENT OF MEDICAL BIOTECHNOLOGIES AND TRANSLATIONAL MEDICINE (VIA VANVITELLI 32, 20129 MILAN) OF THE UNIVERSITY OF MILAN. RESEARCH ASSOCIATE AT THE CNR – INSTITUTE OF NEUROSCIENCE (VIA VANVITELLI 32, 20129 MILAN).

EDUCATION/TRAINING:

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of Milan, Milano (Italy)	B.S.	10/1987	Cellular and Molecular Biology

A) Research Topics:

Identification of molecular mechanisms controlling the formation and the function of cell-cell adhesion such as synapses in neurons and junctions in epithelia. Generation and characterization of cellular models of neurodegeneration.

B) Professional Experience

- 1976-1980: Techician, Department of Medical Pharmacology, University of Milano
- 1985: Visiting fellow laboratory of Joan Ruderman Department of Anatomy and Cellular Biology, Harvard Medical School, Boston (MA) USA
- 1990 – 1992: Postdoctoral Associate, laboratory of Michael Caplan, Dept of Cellular &Molecular Physiology, Yale Medical School (CT) USA
- 1992-2002: Permanent position as 'EP-Tecnico Laureato', Dept of Medical Pharmacology, University of Milano, Italy
- 2002–present:Permanent position as Senior Researcher, Dept of Medical Biotechnology and Translational Medicine, Milan, Italy

C) Selected Peer Reviewed Publications

- Ferrari I, Crespi A, Scita G, Pietrini G. LIN7-IRSp53: A novel pathway for filopodia and neurite formation? Commun Integr Biol. 2012 Nov 1;5(6):631-3.
- Cappello V, Vezzoli E, Righi M, Fossati M, Mariotti R, Crespi A, Patruno M, Bentivoglio M, **Pietrini G.**, Francolini M. (2012) Analysis of neuromuscular junctions and effects of anabolic steroid administration in the SOD1G93A mouse model of ALS. Mol Cell Neurosci.51(1-2):12-21. doi: 10.1016/j.mcn.2012.07.003. Epub 2012 Jul 16
- Crespi A, Ferrari I, Lonati P, Disanza A, Fornasari D, Scita G, Padovano V, **Pietrini G**. (2012). LIN7 regulates the filopodium- and neurite-promoting activity of IRSp53. J Cell Sci.125:4543-54. doi: 10.1242/jcs.106484. Epub 2012 Jul 5.

- Padovano V., Lucibello I., Alari V., Della Mina P., Crespi A., Ferrari I., Recagni M., Lattuada D., Righi M., Toniolo D., Villa A., **Pietrini G**., (2011). The POF1B candidate gene for premature ovarian failure regulates epithelial polarity. J. Cell Sci. 124: 3356-3368.
- Padovano V, Massari S, Mazzucchelli S, **Pietrini G.** PKC induces internalization and retention of the EAAC1 glutamate transporter in recycling endosomes of MDCK cells. Am J Physiol Cell Physiol. 2009 Oct;297(4):C835-44.
- D'Ambrosi N, Finocchi P, Apolloni S, Cozzolino M, Ferri A, Padovano V, **Pietrini G**, Carrì MT, Volonté C. The proinflammatory action of microglial P2 receptors is enhanced in SOD1 models for amyotrophic lateral sclerosis. J Immunol. 2009 Oct 1;183(7):4648-56. doi: 10.4049/jimmunol.0901212
- Raimondi A, Mangolini A, Rizzardini M, Tartari S, Massari S, Bendotti C, Francolini M, Borgese N, Cantoni L, **Pietrini G**. Cell culture models to investigate the selective vulnerability of motoneuronal mitochondria to familial ALS-linked G93ASOD1.. Eur J Neurosci. 2006 Jul;24(2):387-99
- Bachmann A, Timmer M, Sierralta J, **Pietrini G**, Gundelfinger ED, Knust E, Thomas U. Cell type-specific recruitment of Drosophila Lin-7 to distinct MAGUK-based protein complexes defines novel roles for Sdt and Dlg-S97. J Cell Sci. 2004 Apr 15;117(Pt 10):1899-909.
- Massari S, Vanoni C, Longhi R, Rosa P, Pietrini G. Protein kinase C-mediated phosphorylation of the BGT1 epithelial gamma-aminobutyric acid transporter regulates its association with LIN7 PDZ proteins: a post-translational mechanism regulating transporter surface density. J Biol Chem. 2005 Feb 25;280(8):7388-97.
- Vanoni C, Massari S, Losa M, Carrega P, Perego C, Conforti L, **Pietrini G**. Increased internalisation and degradation of GLT-1 glial glutamate transporter in a cell model for familial amyotrophic lateral sclerosis (ALS). J Cell Sci. 2004 Oct 15;117(Pt 22):5417-26. Epub 2004 Oct 5
- Perego C, Vanoni C, Massari S, Raimondi A, Pola S, Cattaneo MG, Francolini M, Vicentini LM, **Pietrini G.** Invasive behaviour of glioblastoma cell lines is associated with altered organisation of the cadherin-catenin adhesion system. J Cell Sci. 2002 Aug 15;115(Pt 16):3331-40
- Perego C, Vanoni C, Bossi M, Massari S, Basudev H, Longhi R, **Pietrini G.** The GLT-1 and GLAST glutamate transporters are expressed on morphologically distinct astrocytes and regulated by neuronal activity in primary hippocampal cocultures. J Neurochem. 2000 Sep;75(3):1076-84.
- Perego C, Vanoni C, Massari S, Longhi R, Pietrini G. Mammalian LIN-7 PDZ proteins associate with beta-catenin at the cell-cell junctions of epithelia and neurons. EMBO J. 2000 Aug 1;19(15):3978-89

Paper in revision: Arianna Crespi Alessandra Bertoni, Ilaria Ferrari, Valeria Padovano, Pamela Della Mina, Emilio Berti, Antonello Villa, **Grazia Pietrini.** POF1B regulates desmosome adhesion strength in human intestinal and keratinocyte cell lines.

D. Honors and Research Support

1987: Laurea “Summa cum laude” University of Milano, Faculty of Biology.

1990: Sessel-Anonymous Fellowship, Yale University, School of Mecicine

1991-1992: James Hudson Bown-Alexander B. Coxe Postdoctoral Fellowships, Yale University, School of Medicine

1993-1994: National Research Council Bilateral Project "Construction of GABA/betaine transporter chimeras to study the polarity's mechanisms in epithelial and neuronal cells" Project Coordinator

1996: National Research Council single Project" Expression of chimeric and mutated transporter proteins in epithelial and neuronal cells to study the polarity's mechanisms" Project Coordinator

1997: Telethon grant #986 "Neuronal induced regulation of astroglial glutamate transporters" Principal Investigator

1998-2000: Progetto Finalizzato Biotecnologie "Identification of positive signals for the transport of proteins from the endoplasmic reticulum to the surface of mammalian cells"

2001-2002: American Association of Amyothrophic lateral sclerosis (ALSA) " Molecular Mechanisms involved in the regulation of glutamate transporters" Principal Investigator

2003-2004: Health Ministry, IRCCS-2002, Fondazione Mondino, Rome Italy "Cellular and animal models to study amyothrophic lateral sclerosis" Unit 8, Coordinator D. Borgese.

2005-2006: Ministry of University and Research, Rome Italy, PRIN protocol 2005057598_003 Unit Coordinator

2002-2010: Ministry of University and Research, PUR, Unit component

2010-2012: NEPENTE, Regione Lombardia, Unit component

2012-2013: The PNR/CNR Aging Program, Unit component