CURRICULUM VITAE

Juana María Pasquini Ph. D.

DEGREES AND QUALIFICATIONS:

1961 Pharmacist. School of Pharmacy and Biochemistry. University of Buenos Aires.
1963 Biochemist. School of Pharmacy and Biochemistry.University of Buenos Aires.
1970. Ph. D. School of Pharmacy and Biochemistry. University of Buenos Aires.
1971. Faculty Prize. To the best Thesis of the Year.

TEACHING APPOINTMENTS

1959-1962 Teaching Assistant. Section of Anatomy and Physiology. School of Pharmacy and Biochemistry. University of Buenos Aires.
1964-1968 Instructor in Biochemical Pathology. Department of Biochemistry -
1969-1980 Senior Instructor in Biochemical Pathology. Department of Biochemistry.
1969-1981 Assistant Professor in Biochemical Pathology. Dept of Biochemistry.
1983-1993 Associate Professor in Biochemical Pathology. Dept of Biochemistry
1993 Full Professor. Dept of Biological Chemistry. Section on Biochemical Pathology. School de Pharmacy and Biochemistry. University of Buenos Aires.
2006 Emeritus Professor Dept. of Biological Chemnistry

OTHER ACADEMIC AND PROFESSIONAL POSITIONS

1975- Visiting Investigator in the E. Kennedy Shriver Center for Mental
1976- Retardation,Inc.
Waltham, Massachusetts, USA.
1977 Visiting Investigator, Istituto Chimica Biológica, Universita de Perugia, Italy.
1985-87 Member of the Editorial Board del International Journal for Developmental Neurosciences.
1986-1990 Dean of the School of Pharmacy and Biochemistry - University of Buenos Aires.
1994- Member of the Editorial Board of the Developmental Neuroscience.
1995 Elected Council Member of the International Society for Developmental Neuroscience.
2001 Chair of the Local Organizing Committee of the Joint Meeting of the International and American Societies for Neurochemistry
2002 Guest Editor of a Special Isuue on Transferrin. Ferritin and Iron in the Peripheral and Central Nervous System.
2007 Chair of the Committee of the Advancement and Encouragement of Neurochemistry in Latin America
2010 Council Member American Society for Neurochemistry

PRIZES AND HONORS

1992 National Academy of Science of Buenos Aires Award.
2013 Platinum Konex Award – Special Mention

SOCIETIES MEMBERSHIP

Active Member International Society for Neurochemistry.
Active Member American Society for Neurochemistry
Active Member Argentine Society for Neurochemistry. (founding member).

LECTURES PRESENTED IN INTERNATIONAL MEETINGS AND SYMPOSIA

1972 "The relationship between proteins and glycolipids in cellular membranes of the CNS".
Soto, E.F y Pasquini, J.M.
Symposium # 52, International Union of Biochemistry. Buenos Aires.

1981 "Acción de la tiroxina y análogos sobre el metabolismo de fosfolípidos en membranas subcelulares".
Pasquini, J.M. y Soto, E.F.
Simposio Internacional sobre Nuevos Conceptos de las Enfermedades Tiroideas, Buenos Aires.

1984 Invited lecture at the International Meeting on "Novel Biochemical, Pharmacological and Clinical Aspects of Cytidinediphosphocholine".
"The effect of thyroid hormones upon phospholipids composition and CDPcholine incorporation in mitochondria"
Pasquini, J.M.
Sorrento Italy. Junio 11-14.

1988 Transport and assembly of myelin components.
Soto, E.F. y Pasquini J.M
II International Symposium on Neurotoxins in Neurobiology, Solis, Uruguay.
Invited Lecturer

1991 Neurobiology of Essential Fatty Acids - Lecture Chairperson- Prof. B. K. Siesjo
Symposium on: Calcium Related Damage: Focus on Lipids and Lipid Mediators. Cairns,
1992 Pasquini, J.M. Australia.

1995 Symposium: Post-translational modifications of neural proteins: looking for a role. Pasquini, J.M.
26th Annual Meeting of American Society for Neurochemistry. March 5-9-1995 Santa Mónica, California, USA.

"Posttranslational modification of neural proteins by amino acids"
Ingoglia, N.A. and Pasquini, J.M.
26th Annual Meeting of American Society for Neurochemistry. March 5-9-, 1995 Santa Mónica, California, USA.

1997 Workshop: Biochemical Aspect of Retinal Function
Chairperson
Pasquini, J.M.
28th Annual Meeting of American Society for Neurochemistry
July 20-26, 1997. Boston, Massachusetts, USA.

2001 Chair of the Local Organizing Committee of the Joint Meeting of the International and American Society fpor Neurochemistry, Buenos Aires August 26-31, 2001.

Myelin: Development, Disorders and Neural Repair.
ISN/ASN Satellite Meeting, September 1-5, 2001, Colonia, Uruguay.
Stress-Mediated Injury in Oligodendrocytes.
Chairperson

Myelin: Development, Disorders and Neural Repair.
ISN/ASN Satellite Meeting, September 1-5, 2001, Colonia, Uruguay.
Lactacystin enhances oligodendroglial cell differentiation.
Pasquini, L.A.; Paez, P.M.; Besio Moreno, M.A.N.; Pasquini, J.M. and Soto. E.F.

2006 Hypoxia-ischemia-mediated oligodendroglial cell death and its recovery in the corpus callosum subventricular zone. Juana María Pasquini
XIII Congreso de la Sociedad Española de Neurociencias. Tarragona, España, 16-19 de setiembre de 2009.

2007 Oligodencrocyte maturation is regulateby thyroid hormone during remyelination
Silvestrof, L., Franco, P.G., Soto, E.F. and Pasquini, J,M.
International Societyu for Neurochemistry on Myelin Biology, Chichen Itza, Yucatan, Mexico, Agust 15-19, 2007
Chairperson

2011 Effects of Apotransferrin on the different model of de and hypomyelination
First Meeting of the Institute of Glia South America Alliance
Rio de Janeiro- Brasil "4-26 Octubre 2011

2012 Galectin-3 drives oligodendroglial cell differentiation.
I Congreso FALAN 55th Congreso Nacional de Ciencias Fisiológicas. Cancún Mexico Noviembre 4-9, 2012.
Simposium "Oligodendrocyte Biology in Development and Disease"

2012 Oligodendrocytes and Iron.
Course and Symposium "Neuron –Glia Interactions in health and disease: from gasic Biology to translational neuroscience". Held at the Institut Pasteur de Montevideo, Uruguay. Octubre 18-25, 2012

2014 Iron Deficiency: a possible model of schizophrenia.
Special Seminar at Hunter James Kelly Research Institute. School of Medicine and Biomedical Sciences. Buffalo NY. USA Marzo 14, 2014

2014 "Transferrin and Thyroid Hormone Converge in the control of Myelinogenesis".
International Symposium "Neuron-Glia interactions in health and disease: from basic biology to translational neuroscience" Montevideo- Uruguay Octubre 3 y 4 2014

2016 "Myelin Alterations and Behavioral Disorders" 2nd FALAN Congress Buenos Aires, Argentina October 17-20, 2017

PAPERS PUBLISHED (last 5 years)

99 Guardia Clausi M, Paez PM, Campagnoni AT, Pasquini LA, Pasquini JM. Intranasal administration of aTf protects and repairs the neonatal white matter after a cerebral hypoxic-ischemic event. Glia. 2012 Jun 26.

100 Silvestroff L, Franco PG, Pasquini JM.
ApoTransferrin: dual role on adult subventricular zone-derived neurospheres.
PLoS One. 2012;7(3):e33937. Epub 2012 Mar 30.

101 Salis C, Davio C, Usach V, Urtasun N, Goitia B, Martinez-Vivot R, Pasquini JM, Setton-Avruj CP. Iron and holotransferrin induce cAMP-dependent differentiation of Schwann cells. Neurochem Int. 2012 Jul 7.

102 Salis C., Davio,C, Usach, V., Urtasun N., Goitia, B., Martinez Vivot, R. Pasquini, J.M., Setton-Avruj, C.P. Iron and holotransferrin induce cAMP-dependent differentiation of Schwann cells. Neurochem. Int. (2012) 61:798-806

103 Silvestroff, L., Franco, P.G., Pasquini, J.M. Neural and oligodendrocyates progenitor cells: transferrin effects on cel proliferation.
ASN Neuro. (2013) 5(1):e00107. doi: 10.1042/AN20120075.

104 Perez, MJ., Fernandez;N., Pasquini, J.M.
Oligodendrocyte differentiation and signaling after transferrin internalization: A mechanism of action.
Exp Neurol (2013) 248:262-274.

105 Rosato Siri, M.V., Badaracco, M.E., Pasquini J.M.
Glatiramer promotes oligodendroglial cell maturation in a cuprizone induced demyelination model.
Neurochem Int (2013) 63:10-14.

106 Hoyos HC., Rinaldi M. Mendez-Huergo SP., Marder M., Rabinovich GA., Pasquini JM:, and. Pasquini, LA
Galectin-3 controls the response of microglial cells to limit cuprizone-induced demyelination Neurobiology of Disease (2014) 62: 441-455.

107 HR Quinta, JM Pasquini ,GA Rabinovich and LA Pasquini
Glycan-dependent binding of galectin-1 to neuropilin-1 promotes axonal regeneration after spinal cord injury. .
Cell Death and Differentiation (2014) 21 : 941-955.

108 Valeiras B, Rosato Siri MV, Codagnone M, Reinés A, Pasquini JM.
Gender influence on schizophrenia-relevant abnormalities in a cuprizone demyelination model.
Glia. (2014 62 :1629-44. doi: 10.1002/glia.22704. Epub 2014 Jun 3.

109 Quintá HR, Pasquini LA, Pasquini JM.
Three-dimensional reconstruction of corticospinal tract using one-photon confocal microscopy acquisition allows detection of axonal disruption in spinal cord injury.
J Neurochem. (2015)133:113-24.

110 Marziali LN, Garcia CI, Pasquini JM Transferrin and thyroid hormone converge in the control of myelinogenesis.
Exp Neurol. (2015) 265:129-41

111- Optimizing culture medium composition to improve oligodendrocyte progenitor cell yields in vitro from subventricular zone-derived neural progenitor cell neurospheres.Franco PG, Pasquini JM, Silvestroff L.
PLoS One. (2015) Apr 2;10(4):e0121774. doi: 10.1371

112 Inhalation of growth factors and apo-transferrin to protect and repair the hypoxic ischemic brain.
Guardia Clausi M, Paez PM, Pasquini LA, Pasquini JM.
Pharmacol Res. 2016 Jul;109:81-5. doi: 10.1016/j.phrs.2016.01.010. Epub 2016 Jan 22. Review

113. Ligand-mediated Galectin-1 endocytosis prevents intraneural H2O2 production promoting F-actin dynamics reactivation and axonal re-growth.Quintá HR, Wilson C, Blidner AG, González-BillaultC, Pasquini LA, Rabinovich GA, Pasquini JM.
Exp Neurol. 2016 Sep;283(Pt A):165-78. doi: 10.1016/j.expneurol.2016.06.009. Epub 2016 Jun 11.

114 Combined effects of transferrin and thyroid hormone during oligodendrogenesis In vitro. Marziali LN, Correale J, Garcia CI, Pasquini JM.
Glia. 2016 Nov;64(11):1879-91. doi: 10.1002/glia.23029. Epub 2016 Jul 22.

115 Galectin-1 circumvents lysolecithin-induced demyelination through the modulation of microglialpolarization/phagocytosis and oligodendroglial differentiation.
Rinaldi M, Thomas L, Mathieu P, Carabias P, Troncoso MF, Pasquini JM, Rabinovich GA, Pasquini LA.
Neurobiol Dis. 2016 Sep 6;96:127-143. doi: 10.1016/j.nbd.2016.09.003.

116 The effect of prenatal deficiency of risperidone treatment on the rat frontal cortex. A proteomic Analysis. Farrelly L, Rosato-Siri MV, Föcking M, Codagnone M, Reines A, Dicker P, Wynne K, Farrell M, Cannon M, Cagney G, Pasquini JM, Cotter DR. Proteomics. 2017 Sep;17(17-18). doi: 10.1002/pmic.201600407.

117 Normal development of spinal axons in early embryo stages and posterior locomotor function is independent of GAL-1. Pasquini JM, Barrantes FJ, Quintá HR. J Comp Neurol. 2017 Sep 1;525(13):2861-2875. doi: 10.1002/cne.24243. Epub 2017 Jun 10.

118 Iron Availability Compromises Not Only Oligodendrocytes But Also Astrocytes and Microglial Cells.Rosato-Siri MV, Marziali L, Guitart ME, Badaracco ME, Puntel M, Pitossi F, Correale J, Pasquini JM. Mol Neurobiol. 2017 Jan 14. doi: 10.1007/s12035-016-0369-2. [Epub ahead of print]

119 Normal development of spinal axons in early embryo stages and posterior locomotor function is independent of GAL-1. **Pasquini JM**, Barrantes FJ, Quintá HR. J Comp Neurol. 2017 ;525(13):2861-2875. doi: 10.1002/cne.24243.

120 The Effects of Prenatal Iron Deficiency and Risperidone Treatment on the Rat Frontal Cortex: A Proteomic Analysis. Farrelly L, Rosato-Siri MV, Föcking M, Codagnone M, Reines A, Dicker P, Wynne K, Farrell M, Cannon M, Cagney G, **Pasquini JM**, Cotter DR. Proteomics. 2017 Sep;17(17-18). doi: 10.1002/pmic.201600407.

121 The Divalent Metal Transporter 1 (DMT1) Is Required for Iron Uptake and Normal Development of Oligodendrocyte Progenitor Cells. Cheli VT, Santiago González DA, Marziali LN, Zamora NN, Guitart ME, Spreuer V, **Pasquini JM**, Paez PM. J Neurosci. 2018 ;38(43):9142-9159. doi: 10.1523/JNEUROSCI.1447-18.2018.

122 Changes in neurosteroidogenesis during demyelination and remyelination in cuprizone-treated mice. Leicaj ML, Pasquini LA, Lima A, Gonzalez Deniselle MC, **Pasquini JM**, De Nicola AF, Garay LI. J Neuroendocrinol. 2018 Nov;30(11):e12649. doi: 0.1111/jne.12649.

123 Microglial modulation through colony-stimulating factor-1 receptor inhibition attenuates demyelination. Wies Mancini VSB, **Pasquini JM**, Correale JD, Pasquini LA. Glia. 2019 67(2):291-308. doi: 10.1002/glia.23540.

124 Transferrin Enhances Microglial Phagocytic Capacity. Carden TR, Correale J, **Pasquini JM**, Pérez MJ.Mol Neurobiol. 2019 Feb 13. doi: 10.1007/s12035-019-1519-0. [Epub ahead of print]