

BIOGRAPHICAL SKETCH (2008)

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Education

<u>Institution and location</u>	<u>Degree</u>	<u>Year</u>	<u>Field of study</u>
School of Chemical Sciences Natl. Univ. Córdoba	Biochemist	1973	Biochemistry
School of Chemical Sciences Natl. Univ. Córdoba	Ph.D.	1978	Neurochemistry
S. Illinois University School of Medicine	Research Ass.	1983-1987	

Academic and research positions

1974-1977	Instructor in the Dpt. Of Biological Chemistry, School of Chemical Sciences. Natl. Univ. Córdoba (UNC).
1977-1998	Chief Instructor in the Dpt. Of Biological Chemistry (UNC).
1988-1997	Adjunct Professor in the Dpt. Of Biological Chemistry, Facultad de Ciencias Químicas, (UNC).
1997-present	Associate Professor, Dpt. Of Biological Chemistry (UNC).
1987-present	Member of the Research Career of the National Council for Scientific and Technological Research (CONICET) of the Centro de Investigaciones en Química Biológica de Córdoba (CIQUIBIC) (UNC-CONICET).
1991-1998	Member of the Executive Committee, of the Dpt. Biological Chemistry
1991-1998	Member of the Governing Council of the School of Chemical Sciences UNC
1994	Interin Dean Facultad de Ciencias Químicas, Universidad Nacional de Córdoba (UNC).
2000-2005	Member of the Executive Committee, of the Dpt. Biological Chemistry
2004-2005	Member of the Governing Council of the School of Chemical Sciences UNC
1995-1998	Member Advisory Committee of CIQUIBIC.
1991-1992	Vice chair of the Dpt. Of Biological Chemistry. UNC
2006-present	Chair of the Dpt. Of Biological Chemistry. UNC
1999/00	Committee Member, Biochemistry Research CONICET
2007-present	Member of the Advisory Committee on Biochemistry of the National Research Career of

National Council for Scientific and Technological Research (CONICET).

Honours and Awards

1991 Scientific Excellence CONICOR
1992 and 1994 National University of Cordoba Award in Recognition of Academic Excellence.
1987-1989 Award for Scientific Excellence, Secretariat of Research and Technology of Cordoba.

Research Grants

1994-present Secretary Science and Technology (SeCyT, UNC).
1990-1998 Council of Investigations of Cordoba (CONICOR)
1994 Antorchas Foundation. P.I. in a Group project
1996 Antorchas Foundation participant in a group project
Dpt. of Biological Chemistry (UNC).
2000-2003 Cooperative Project between ECCOS with the Unite
#366 INSERN Grenoble, France. P. I. and Director.
2000-2001 Carrillo Fellowship. Ministry of Health. Argentina
1985-present. CONICET and FONCYT research support. PI.
2005 International Society for Neurochemistry CAEN.PI.
2006-2007 CONICET PIP. PI.
2007-2010 ANPCyT, Argentina PI

Participation in activities of the International Brain Research Organization (IBRO):

!999-2005 Evaluation of short and long term fellowships.
!999-present Evaluation of Schools and courses.
1999-2005 LARC Committee Member.
2005-present Chair of the LARC.
2007-2010 Ricardo Miledi Planning Committee member.
09/04 First IBRO-INMHA School of Neuroscience LARC in Argentina. Director and lecturer.
2004-present Governing Council Member
2007-present Council of Neurosciences' Societies from Latin America, Caribe and Iberic Peninsula. Coordinator of the First LARC/IBRO Regional Meeting of Neurosciences (NeuroLatAm) Brazil.

Participation in other Scientific Societies.

1987-89, 89-91 Treasure and Committee Member of the Argentine Society for Neurochemistry (SAN).
1993-1995 Secretary SAN
2000-2002 Vice-President of SAN.
2002-2003 President of SAN.
2003-2005 Past President of SAN.
1993-1997 Secretary, Argentine Society for Biochemistry and Molecular Biology (SAIB)
1997-1999 Member of the Interamerican Cooperation Committee of the American Society of Neurochemistry (ANS)

2001-2003 Member Interamerican cooperation committee of the ANS.

Society Memberships:

International Society for Neurochemistry (ISN).
American Society for Neurochemistry (ASN)
Society for Neurosciences (SfN, Washington DC)
Society of Biology of Córdoba.
Argentine Neuroscience Society. (SAN)
Argentine Society of Biochemical Investigations (SAIB).
International Brain Research Organization

PhD Dissertation Director

Graduate students National University of Cordoba (UNC)

1995 Guillermina Bongiovanni PhD.
2000 Sebastian Fissolo PhD.
2004 María Belen Decca PhD.
2006 Mauricio R. Galiano PhD.
2006 Marcos Carpio (In progress)
2007 Cecilia Lopez Sambrooks (in progress)
Member of the Advisor Committee of 25 PhD students Dissertations at the
UNC, UBA and Univ of Rio IV.

Undergraduate Students

8 Bachelors degree Thesis

Selected Publications:

Release of tyrosine from tyrosinated tubulin. Some common factors that affect this process and assembly of tubulin", M.E. Hallak, J.A. Rodriguez, H.S. Barra and R. Caputto. FEBS Lett. (1977), 73, 147.

Capability of tubulin and microtubules to incorporate and to release tyrosine and phenylalanine and the effect of the incorporation of these amino acids on tubulin assembly", C.A. Arce, M.E. Hallak, J.A. Rodriguez, H.S. Barra and R.. Caputto, J. Neurochem, (1978), 31, 205.

Posttranslational Incorporation of [14C]Arginine into rat brain proteins. Acceptor changes during development", M.E. Hallak, H.S. Barra and R. Caputto. J. Neurochem. (1985), 44, 665669.

The posttranslational arginylation of proteins in different regions of the rat brain." Hallak M.E., G. Bongiovanni and H.S. Barra. J of Neurochem (1991) 57, 17351739

Some common properties between a brain protein that is modified by a post-translational arginylation and the STOP protein". G. Bongiovanni, H.S. Barra and M. Hallak. J.of Neurochem.(1994) 63, 2295-2299.

The post translational incorporation of arginine into beta- amyloid peptide increases

the probability of alpha-helix formation". Bongiovanni, G., Fidelio, G. D., Barra, H. S. and Hallak, M.E. (1995) *Neuroreport* 7, 1.

Posttranslational arginylation of brain proteins". Marta E. Hallak y Guillermina Bongiovanni. (1997) *Neurochemical Research* 22,467-473.

Posttranslational arginylation of soluble rat brain proteins after whole body hyperthermia". G. Bongiovanni, S. Fissolo, H. S. Barra y M. Hallak. (1999), *J. Neurosc. Res.* 56: 85-92.

Posttranslational arginylation of proteins in cultured cells. (2000). S. Fissolo, G. Bongiovanni, M. B. Decca and M. Hallak. *Neurochem. Res.* 25, 71-76.

The cytoskeletal components of the myelin fraction are affected by a single intracranial injection of apotransferrin in young rats. (2000). O.E. Escobar Cabrera, G. Bongiovanni, M Hallak, E. Soto, and G. Pasquini. *Neurochem. Res.* 25,669-676.

Changes in the expression of cytoskeletal proteins in the CNS of Transferrin Transgenic Mice. (2002). Marta C.B., Ortiz E.H., Hallak M., Baron B., Guillou F., Zakin M.M., Soto E.F. and Pasquini J.M. *Developmental Neuroscience* 24, 242-251.

Astrocytes and oligodendrocytes express different STOP proteins isoforms. (2004). Galiano, M. R.; Bosc C.; Andrieux A., Job, D. and Hallak, M. *J. Neurosci. Res.* 78, 329-337.

Protein Arginylation in Rat Brain Cytosol: A Proteomic Analysis. (2006). M. B. Decca, C. Bosc, S. Luche, S. Brugiere , Didier Job, T. Rabilloud, J. Garin and M. Hallak. *Neurochemical Research*, 29, 413-418.

MBP as a microtubule stabilizing protein in mature oligodendrocytes. (2006). Galiano M.R, Andrieux A, Deloume J C, Bosc C, Schweitzer A., Job D. and Hallak M.E. *J. Neuroscience Research* 84, 534-541.

Post-translational arginylation of calreticulin: a new isospecies of calreticulin component of stress granules. (2007). M. B. Decca, M. A. Carpio, C. Bosc, M. R. Galiano, D. Job, A. Andrieux and M. E. Hallak. *Journal Biological Chemistry* 282, 8237-8245

Insights of MBP interaction with microtubules" (2008) Galiano MR, Lopez-Sambrooks C and Hallak ME. Review chapter on "Intrinsically Disordered Proteins". Editor JM Boggs. Publisher Nova Science Publisher, Inc. (*Article in press 2008*).