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Date and Place of Birth: 3<sup>rd</sup> June, 1975 – San Juan, Argentina.Institution: CIQUIBIC (CONICET)- Dpto. de Química Biológica Ranwel Caputto,  
Fac. Ciencias Químicas, Universidad Nacional de Córdoba.

## ACADEMIC DEGREES

2006 Ph.D. in Chemical Sciences. National University of Córdoba (Argentina).

1999 Biochemistry (Bachelor in Science) National University of Córdoba (Argentina).

**CURRENT POSITIONS**

- Assistant Professor (DS). Dpto. de Qca. Biológica, Fac. Cs. Químicas, U.N.C.
- Adjunct Researcher (CIC-CONICET) – (Res. N°1885/2018).

## PAST POSITIONS

2013-2018 – Assistant Researcher (CIC-CONICET) (Res. N°4804/2012) Director: Dr. M.E. Hallak.

2008-2012 - Postdoc Associate (Nov. 2008 – Oct. 2012) Director: M.N. Rasband (BCM).

2006-2008 - Postdoctoral Fellow CONICET (April 2006 – Oct. 2008) Director: Dr. M.E. Hallak.

## SCIENTIFIC PUBLICATIONS

- Comba A, Bonnet LV, Goitea VE, Hallak ME, **Galiano MR**. *Arginylated calreticulin increases the apoptotic response induced by bortezomib on glioma cells*. **Mol Neurobiol.** (2019) 56(3):1653-64. (Corresp. author).
- Susuki K, Zollinger DR, Chang KJ, Zhang C, Huang YM, Tsai CR, **Galiano MR**, et al. *Glial  $\beta$ II spectrin contributes to paranode formation and maintenance*. **J. Neurosci.** (2018) 38(27):6063-6075.
- Vasti C, Bonnet LV, **Galiano MR**, Rojas R, Giacomelli CE. *Relevance of protein–protein interactions on the biological identity of nanoparticles*. **Colloids and Surfaces B: Biointerfaces** (2018) 166: 330–338.
- Vasti C, Pfaffen V, Ambroggio E, **Galiano MR**, Rojas R, Giacomelli CE. *A systematic approach to the synthesis of LDH nanoparticles by response surface methodology*. **Applied Clay Sci.** (2017) 137:151–59.
- **Galiano MR**, Goitea VE, Hallak ME. *Post-translational protein arginylation in the normal nervous system and in neurodegeneration*. **J. Neurochem.** (2016) 138(4):506-517. (Review article)
- **Galiano MR**, Hallak ME. *Assaying the post-translational arginylation of proteins in cultured cells*. **Methods Mol Biol.** (2015) 1337:49-58. (Review article)
- Shahmoradian SH, **Galiano MR**, Chen S, et al. *Preparation of Primary Neurons for Visualizing Neurites in a Frozen-Hydrated State Using Cryo-Electron Microscopy and Tomography*. **J Vis Exp** (2014) (84):e50783.
- Huang W, Zhu PJ, Zhang S, Zhou H, Stoica L, **Galiano M**, Krnjević K, et al. *mTORC2 controls actin polymerization required for consolidation of long-term memory*. **Nature Neurosci.** (2013) 16(4):441-8.
- **Galiano MR**, Jha S, Ho T, Zhang C, Ogawa Y, Chang KJ, et al. *A distal axonal cytoskeleton forms an intra-axonal boundary that controls axon initial segment assembly*. **Cell** (2012) 149(5): 1125-1139.
- **Galiano MR**, Lopez-Sambrooks C, Hallak ME. *Insights on the Interaction of MBP and Microtubules*. Myelin Basic Protein. Editor: Joan M. Boggs. © 2008 **Nova Science Publishers, Inc.** (Book Chapter).

- Decca MB, Carpio MA, Bosc C, **Galiano MR**, Job D, et al. *Post-Translational Arginylation of Calreticulin: A new isospecies of calreticulin component of Stress Granules*. **J Biol Chem.** (2007) 282:8237-8245.
- **Galiano MR**, Andrieux A, Deloulme JC, Bosc C, Schweitzer A, et al. *Myelin basic protein functions as a microtubule stabilizing protein in differentiated oligodendrocytes*. **J. Neurosc. Res.** (2006) 84:534-541.
- **Galiano MR**, Bosc C, Schweitzer A, Andrieux A, Job D, Hallak ME. *Astrocytes and Oligodendrocytes Express Different STOP Protein Isoforms*. **J. Neurosc. Res.** (2006) 78:329-337.
- Decca MB, **Galiano MR**, Barra HS, Hallak ME. *Re-examination of the post-translational arginylated protein of 125-kDa- initially identified as N-STOP*. **Neurochem. Res.** (2004) 29:413-418.

#### Articles under revision:

- Palandri A\*, Bonnet LV, Flores-Martin JB, Hallak ME and **Galiano MR\***. *Ablation of arginyl-tRNA-protein Transferase in oligodendrocytes impairs Central Nervous System myelination*. (\*Corresp. authors)
- Flores-Martín JB, Bonnet LV, Palandri A, Hallak MH, **Galiano MR**. *The proteasome subunit Rpt5 dynamically associates with cold-stable microtubules in glial cells at low temperatures*. (Corresp. author)

#### FUNDINGS

- Subsidio FONCyT PICT-2019 (Investigador responsable). Project: *Estudios bioquímicos, moleculares y funcionales de la enzima Ate1 que media la arginilación postraduccional de proteínas*.
- Subsidio SeCyT-UNC Consolidar 2018-2021 (Investigador responsable) Project: *Estudio de la Arginilación postraduccional de proteínas en procesos tumorales*.
- Subsidio del Min. C. y T. Pcia. Córdoba-2017, colaborador (Director Dr. C. Giacomelli). Project: *Correlación entre estructura, prop. mecánicas y citotoxicidad de biomateriales para reconstrucción ósea*.
- Subsidio FONCyT PICT-Grupo en Formación 2016 (Investigador responsable). Project: *Arginilación post-traducción de proteínas en astrocitos: Posibles implicancias en procesos neurodegenerativos*.
- Subsidio FONCyT PICT-2015 (Director Dr. M.E. Hallak). Project: *Modificación post-traducción de proteínas: estudios bioquímicos, moleculares y funcionales de calreticulina arginilada*.
- Subsidio FONCyT PICT-Joven 2012 (Investigador responsable). Project: *Estudio de la arginilación post-traducción de proteínas durante la formación de mielina*.
- Return Home Grant (2012) International Society for Neurochemistry (ISN). Project: *Role of post-translational arginylation of proteins during myelin formation*.

#### SELLECTED ORAL PRESENTATIONS

- **Galiano MR**, Palandri A, Bonnet LV, Flores-Martin JB, Hallak ME. *Oligodendrocytes specific deletion of Ate-1 alters myelination of the CNS*. Workshop Oligodendrocyte Biology and Remyelination (2019), Buenos Aires, Argentina.
- **Galiano MR**, Bonnet LV, Comba A, Goitea VE, Carpio MA, Hallak ME. *N-terminal post-translational arginylation regulates multiple roles of calreticulin*. LIV Reunión Anual SAIB (2018), Entre Ríos, Argentina.
- **Galiano MR**. Assembly of the Axon Initial Segment (AIS): Role of a distal axonal cytoskeleton. (Conferencias de Jóvenes Investigadores) XXVIII Congreso SAN (2013), Huerta Grande, Córdoba, Argentina.

**POSTER PRESENTATIONS (last 3 years)**

- Palandri A, Bonnet LV, Flores-Martin JB, Hallak ME, **Galiano MR**. *Role of post-translational arginylation of proteins in glial cells during CNS myelination*. ISN Meeting (2019), Montreal, Canada.
- Flores-Martin JB, Bonnet LV, Palandri A, Hallak ME, **Galiano MR**. *Dynamic association of Rpt5 to cold-stable microtubules in glial cells*. SAN (2019) Córdoba, Argentina.
- Bonnet LV, Flores-Martin JB, Palandri A, Hallak ME, **Galiano MR**. *Arginyltransferase (Ate1) regulates stress response to bortezomib of human glioma cells*. Reunión Anual SAIB (2018) Entre Ríos, Argentina.
- Bonnet LV, Flores-Martin JB, Palandri A, Hallak ME, **Galiano MG**. *Downregulation of arginyltransferase Ate1 enhances bortezomib-induced cell death in human glioma cells*. SAN (2018), Córdoba, Argentina.
- **Galiano MR**, Flores JB, Bonnet LV, Hallak ME. *Analyzing the role of post-translational protein arginylation in Schwann cells after nerve injury*. Southamerican Neuroglia Symposium "The role of glial cells in health and disease of the Nervous System: Clinical and Basic Science walking together". 2017, Bs. As., Argentina.
- Bonnet LV, Flores JB, **Galiano MR**, Hallak ME. *Altered Stress Granules dynamic modulates cell fate in bortezomib-treated glioma cells*. Joint Meeting of Bioscience Societies (2017), Bs. As., Argentina.
- Vasti C, Bonnet LV, **Galiano MR**, Rojas R, Giacomelli CE. *Protein coating defines the biological identity of nanoparticles: relevance of protein-protein interactions*. Joint Meeting of Bioscience Societies (2017) Bs. As., Argentina.
- Valenti LE, Bonnet LV, **Galiano MR**, Giacomelli CE. *Antibacterial properties and biocompatibility of coated titanium substrates*. Joint Meeting of Bioscience Societies (2017), Buenos Aires, Argentina.
- Bonnet LV, Comba A, Goitea VE, **Galiano MR**, Hallak ME. *ER stress promotion by Bortezomib treatment is associated with R-CRT pro-apoptotic action in human glioma cells*. FALAN Meeting (2016), Bs. As., Argentina.

**HUMAN RESOURCES**

- (2019) Director Beca CIN-2018 Sofía Zamanillo, undergraduate student Biochemistry, Fac. Cs. Qcas. U.N.C. Project: "Estudio del 26S proteasoma en Glia y su relación con la Arginilación Postraducción de Proteínas".
- (2019) Supervisor Sharon Coleff (undergraduate student, Prácticas Profesionales Supervisadas) Escuela de Ingeniería Biomédica, FCEN, U.N.C.
- (2008) Co-director Master's equivalent Thesis Víctor E. Goitea (Undergraduate student Chemistry Degree). Project: "Introducción al Estudio de la Arginilación Postraducción de la Apolipoproteína E".

**MEETING/COURSE ORGANIZER**

- (2021) Symposium organizer: Virtual symposium "Cellular Mechanisms in Neuroscience" FALAN Networking 2021 (Chair) (Sept. 2021).
- (2019) Symposium co-organizer: "New perspectives and mechanisms underlying neurological disorders". Co-chairs: Mauricio Galiano, Lionel Muller Igaz. Simposio en Congreso SAN 2019, Carlos Paz, Argentina.
- (2019) Coordinator of Postgraduate Course "Aspectos avanzados de Neuroquímica y Neurobiología Celular y Molecular: Estrategias experimentales para el estudio del SNC y procesos neuropatológicos". Postgraduate School of Chemical Sciences Fac. U.N.C.
- (2015) Lecturer and Coordinator of Postgraduate Course "Neurobiología Celular y Molecular: Patologías asociadas". Postgraduate School of Chemical Sciences Fac. U.N.C.