

ARLEK MARION GONZALEZ JAMETT

Post-doctoral Fellow

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Educational Summary:

- 2000-2005 Pontificia Universidad Católica de Valparaíso Licenciante in Biochemistry.
2006-2007 CINV, Universidad de Valparaíso Undergraduate Biochemist Thesis.
2008-2012 Universidad de Valparaíso Ph.D in Sciences (mention in Neuroscience).

Professional Experience:

- 2006-2007 Undergraduate Biochemist Thesis, CINV, Universidad de Valparaíso at Dr. Ana María Cárdenas's laboratory.
- 2007 Research Assistant, CINV, Universidad de Valparaíso at Dr. Ana María Cárdenas's laboratory.
- 2008-2012 Ph.D candidate, CINV, Universidad de Valparaíso. Thesis Project at Dr. Ana María Cárdenas's laboratory
- 2013 Post-doctoral researcher, CINV, Universidad de Valparaíso (at Dr. Ana María Cardenas's laboratory) in collaboration with Dr. Pablo Caviedes, ICBM, Facultad de Medicina, Universidad de Chile.

Teaching Experience:

- 2001-2004 Pontificia Universidad Católica de Valparaíso. Student assistant for the courses Physics-1 (FIS-114) and Pysics-2 (FIS-212) for students of Licenciante in Biochemistry.
- 2007 Universidad de Valparaíso. Assistant for the course Experimental Methods in Neuroscience for students of Master and PhD in Sciences.
- 2010 Universidad de Valparaíso. Assistant for the course Biomedical Sciences (ICB-113) for students of Biomedical Engineering.
- 2012 Universidad de Valparaíso. Assistant for the course Biomedical Sciences (ICB-113) for students of Biomedical Engineering.

Honors and Awards:

- 2000 Pontificia Universidad Católica de Valparaíso. Academic Excellence scholarship.
- 2008-2012 CONICYT Doctoral Fellowship for doctoral studies in Chile (21080096)
- 2010-2012 CONICYT Support Fellowship to the completion of Doctoral Thesis (AT24100005).
- 2012 CONICYT Travel Fellowship to attend the I FALAN Congress, Cancun Mexico (81120030).
- 2013 CINV, Universidad de Valparaíso. Post-doctoral Fellowship.

Internships:

- October 15-30, 2007 Institute für Neurophysologie Medizinische Hochschule, Hannover, Germany at Dr. Patricia Hidalgo's laboratory.
- November 20-December 23, 2009 Institut des Neurosciences Cellulaires et Intégratives Département des Neurotransmission et Sécrétion Neuroendocrine. Centre de Neurochimie, Strasbourg, France at Dr. Stephane Gasman's laboratory.
- September 21-November 21, 2010 Institut des Neurosciences Cellulaires et Intégratives Département des Neurotransmission et Sécrétion Neuroendocrine. Centre de Neurochimie, Strasbourg, France at Dr. Stephane Gasman's laboratory.

Scientific publications:

Alvaro O. Ardiles, **Arlek M González-Jamett**, Jaime Maripillan, David Naranjo, Pablo Caviedes, Ana María Cárdenas. (2007) *Calcium Channel Subtypes Differentially Regulate Fusion Pore Stability And Expansion*. Journal of Neurochemistry; 4, 1574-1581.

Gonzalez-Jamett AM, Báez-Matus X, Hevia MA, Guerra MJ, Olivares MJ, Martínez AD, Neely A, Cárdenas AM (2010) *The association of dynamin with synaptophysin regulates quantal size and duration of exocytotic events in chromaffin cells*. J. Neurosci. 30: 10683 - 10691.

González-Jamett AM, Momboisse F, Guerra MJ, Ory S, Báez-Matus X, et al. (2013) *Dynamin-2 regulates fusion pore expansion and quantal release through a mechanism that involves actin dynamics in neuroendocrine chromaffin cells*. PLoS One 8: e70638.

González-Jamett AM, Momboisse F, Haro-Acuña V, Bevilacqua JA, Caviedes P, Cardenas AM (2013) *Dynamin-2 function and dysfunction along the secretory pathway*. Front. Endocrinol. (Lausanne), 4: 126 (DOI: 10.3389/fendo.2013.00126).

González-Jamett AM, Haro-Acuña V, Momboisse F, Caviedes P, Bevilacqua JA, Cardenas AM (2013) *Dynamin-2 in nervous system disorders*. J. Neurochem 4: 126 (DOI: 10.1111/jnc.12455).

Olivares MJ, **González-Jamett AM**, Guerra MJ, Baez-Matus X, Haro-Acuña V, Martínez-Quiles N, Cárdenas AM (2013) *Src kinases regulate de novo actin polymerization during exocytosis in neuroendocrine chromaffin cells* (Plos One, submitted).

Main Congress assistance:

Arlek M. González Jamett, Álvaro O. Ardiles, Jaime Maripillán, María José Guerra, David Naranjo, Alan Neely, Ana M. Cárdenas “Ca²⁺ CHANNEL SUBTYPES DIFFERENTIALLY REGULATE THE FUSION PORE STABILITY AND ITS EXPANSION” III Congreso Sociedad Chilena de Neurociencias, Termas del Corazón, Los Andes, Chile 26-28 de septiembre 2007.

Arlek M González-Jamett, María José Guerra, Patricia Hidalgo, Alan Neely, Ana M. Cárdenas, 2007 “PARTICIPATION OF SYNAPTOPHISYN IN THE KISS-AND-RUN IN CHROMAFFIN CELLS” 14th-International Symposium on Chromaffin Cell Biology Sestri Levante, Italy october 12-15 2007.

Guerra MJ., **González-Jamett A.**, Hidalgo P., Neely A., Cárdenas AM., 2008 “SH3-DOMAIN-CONTAINING PROTEINS REGULATES THE DYNAMIN-DEPENDENT KISS-AND-RUN IN CHROMAFFIN CELLS” I Congreso Ibroamericano de Neurociencias de Latinoamerica, el Caribe y península Ibérica, Brasil,

Arlek González-Jamett, María José Guerra, Montserrat Hevia, Patricia Hidalgo, Alan Neely, Ana María Cardenas, 2009 “THE CALCIUM CHANNEL BETA-SUBUNIT REGULATES THE CATECHOLAMINE QUANTAL SIZE IN CHROMAFFIN CELLS” 15th International Symposium on Chromaffin cell Biology, Merida, Mexico.

Arlek González-Jamett, María José Guerra, Stephane Ory, Agustin Martinez, Stephane Gasman, Ana María Cárdenas “DYNAMIN-2 DIRECTS THE ASSEMBLY OF SUBPLASMALEMAL ACTIN AND REGULATES EXOCYTOSIS IN BOVINE CHROMAFFIN CELLS” VII Congreso Sociedad Chilena de Neurociencias, Santa Cruz, Chile septiembre 2011.

Arlek González-Jamett María José Guerra, Fanny Momboisse, Ximena Baez, Stephane Ory, Agustin Martinez, Stephane Gasman, Ana María Cardenas “DYNAMIN-2 REGULATES THE LATE STEPS OF EXOCYTOSIS IN ADRENAL CHROMAFFIN CELLS THROUGH A MECHANISM THAT INVOLVES ACTIN POLYMERIZATION” I Congreso FALAN, Cancún Quintana Roo, Mexico 4-9 de noviembre de 2012.

Arlek González-Jamett, Valentina Haro, María José Olivares, María José Guerra, Ximena Báez, Fanny Momboisse, Narcisa Martínez-Quiles, Ana María Cardenas “ROLE OF THE ACTIN-BINDING PROTEIN CORTACTIN IN ACTIN CYTOSKELETON DYNAMICS AND EXOCYTOSIS IN NEUROENDOCRINE CHROMAFFIN CELLS” 17th International Symposium on Chromaffin cell Biology, Rouen, Normandy, France, July 13-17, 2013.

Fernando Hinostroza, Valentina Haro, John Ewer, Pablo Caviedes, Ana María Cardenas, **Arlek González-Jamett** “IMPACT OF CNM-LINKED DYNAMIN-2 MUTATIONS ON ACTIN CYTOSKELETON DYNAMICS IN MUSCLE CELLS” XXVII Annual Meeting of Chilean Society for Cell Biology, Puerto Varas, Chile, October 23-27, 2013.