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EDUCATION

Degree	Institution	Filed	Dates
B.S.	Univ. Nacional de San Luis, Argentina	Chemistry	1988
Ph.D.	Univ. Nacional de San Luis, Argentina	Biochemistry	1993

FULL-TIME ACADEMIC EXPERIENCE

Institution	Rank	Field	Dates
Florida International University	Associate Professor	Biology	8/10-present
Florida International University	Assistant Professor	Biology	8/04-8/10
Washington University (St. Louis, MO)	Res. Assist. Prof.	Cell Biology	10/00-8/04
Washington University (St. Louis, MO)	Instructor	Cell Biology	5/00-10/00
Washington University (St. Louis, MO)	Research Associate	Cell Biology	1/96-4/00

PUBLICATIONS IN DISCIPLINE

Peer-Reviewed Publications

1. Veisaga M.L., Abood, S., Priestap H.A., Abboud K.A., Lopez L.A., **Barbieri M.A.** Dehydroparishin-B: a guaiane-type sesquiterpene acid. Acta. Crystallogr. Sect. E. Struct. Rep. Online. In press (2016).
2. Abood S., Eichelbaum S., Veisaga M.L., Lopez L.L., **Barbeiri M.A.** Biomedical properties of sesquiterpene lactones: with a focus on dehydroleudcodine. Natural Products Communications. In press (2016).
3. Mustafi S., **Barbieri M.A.** Rin1 restores host phagocytosis activity during the invasion of *Pseudomonas aeruginosa*. J. Med. Microbiol. doi: 10.1099/jmm.0.000235 (2016).
4. Costantino V.V., Lobos-Gonzalez L., Ibañez J., Fernandez D., Cuello-Carrión F.D., Valenzuela M.A., **Barbieri M.A.**, Semino S.N., Jahn G.A., Quest A.F., Lopez L.A

Dehydroleucodine inhibits tumor growth in a preclinical melanoma model by inducing cell cycle arrest, senescence and apoptosis. *Cancer Lett.* **372**:10 (2016).

5. Porther N., **Barbieri M.A.** The role of endocytic Rab GTPases in regulation of growth factor signaling and the migration and invasion of tumor cells. *Small GTPases.* **6**:135 (2015).

6. Mustafi S., Veisaga M.L., López L.A., **Barbieri M.A.** A Novel Insight into Dehydroleucodine Mediated Attenuation of *Pseudomonas aeruginosa* Virulence Mechanism. *Biomed Res Int.* **2015**:216097 (2015).

7. Chayaratanasin P., **Barbieri M.A.**, Suanpairintr N., Adisakwattana S. Inhibitory effect of *Clitoria ternatea* flower petal extract on fructose-induced protein glycation and oxidation-dependent damages to albumin in vitro. *BMC Complement. Altern. Med.* **15**:27 (2015).

8. Priestap H.P., Chin C., Veisaga M.L., Commock T., Campbell K., Jestrow B., Francisco-Ortega J., **Barbieri M.A.** Volatile constituents of five species of *portlandia* (rubiaceae). *Journal of Essential Oil Research.* **26**: 125 (2013).

9. Mustafi S., Kim L.W., **Barbieri M.A.** Microorganisms: Modulation of Phagocytosis and its Mechanisms of action. *Curr. Cell. Biochem.* **3**:1 (2013).

10. Villaverde N., Galvis A., Marcano A., Priestap H.A., Bennett B.C., **Barbieri M.A.** Saw palmetto ethanol extract inhibits adipocyte differentiation. *J. Nat. Med.* **67**: 619 (2013).

11. Priestap H.A., **Barbieri M.A.** Conversion of aristolochic acid I into aristolic acid by reaction with cysteine and glutathione: biological implications. *J. Nat. Prod.* **76**: 965 (2013).

12. Mustafi S., Rivero N., Olson J.C., Stahl P.D., **Barbieri M.A.** Regulation of Rab5 function during phagocytosis of live *Pseudomonas aeruginosa* in macrophages. *Infect. Immun.* **81**: 2426 (2013).

13. Costantino V.V., Mansilla S.F., Speroni J., Amaya C., Cuello-carrión D., Ciocca D.R., Priestap H.A., **Barbieri M.A.**, Gottifredi V., Lopez L.A. The sesquiterpene lactone dehydroleucodine triggers senescence and apoptosis in association with accumulation of dna damage markers. *Plos One.* **8**:e53168 (2013).

14. Priestap H.A., Galvis A., Rivero N., Costantino V., Lopez L.A., **Barbieri M.A.** Dehydroleucodine and dehydroparishin-b inhibit proliferation and motility of B16 melanoma cells. *Phytochemistry Letters.* **5**: 581 (2012).

15. Priestap H.A., Velandia A.E., Johnson J.V., **Barbieri M.A.** Secondary metabolite uptake by the *Aristolochia*-feeding papilionoid butterfly *Battus polydamas*. *Biochemical Systematics and Ecology.* **40**:126. (2012).

16. Priestap H.A., Torres M.C., Riegar R.A., Dickman K.G., Freshwater T., Taft D.R., **Barbieri M.A.**, Iden C.R. Aristolochic acid I metabolism in the isolated perfused rat kidney. *Chem. Res. Toxicol.* **25**:130. (2012).
17. Jozic I., Saliba S.C., **Barbieri M.A.** Effect of EGF-receptor tyrosine kinase inhibitor on Rab5 function during endocytosis. *Arch Biochem Biophys.* **525**:16. (2012).
18. Priestap H.A., Abboud K.A., Velandia A.E., Lopez L.A., **Barbieri M.A.** Dehydroleucodin: a guaiane-type sesquiterpene lactone. *Acta. Crystallogr. Sect. E. Struct. Rep. Online.* **67**:3470 (2011).
19. Jozic I., Blanco G., **Barbieri M.A.** Inhibition of Rab5 Activation During Insulin Receptor-Mediated Endocytosis. *Current Cellular Biochemistry.* **1**:20 (2011).
20. Galvis A., Marcano A., Stefancin C., Villaverde N., Priestap H.A., Tonn C.E., Lopez L.A., **Barbieri M.A.** The effect of Dehydroleucodine in adipocyte differentiation. *Eur. J. Pharmacol.* **671**:18 (2011).
21. Jozic I., **Barbieri M.A.** Rab5 and Epidermal Growth Factor Receptor during endocytosis by Clathrin dependent and Clathrin independent pathways. *Current Topics in Biochemical Research* **12**:59 (2010).
22. Galvis A., Balmaceda V., Giambini H., Fornes M.W., **Barbieri M.A.** Inhibition of early endosome fusion by Rab5-binding defective Ras interference 1 mutants. *Arch. Biochem. Biophys.* **482**:83 (2009).
23. Galvis A., Giambini H., Villasana Z., **Barbieri M.A.** Functional determinants of ras interference 1 mutants required for their inhibitory activity on endocytosis. *Exp. Cell. Res.* **315**:820 (2009).
24. **Barbieri M.A.**, Wainszelbaum M.J., Stahl P.D. Intracellular Trafficking and Signaling: The Role of Endocytic Rab GTPase. Nava Segev (ed): "Trafficking Inside Cells: Pathways, Mechanisms and Regulation." *Eureka* **1**:1 (2008).
25. Wainszelbaum M.J., Charron A., Kong C., Kirkpatrick D.S., Srikanth P., **Barbieri M.A.**, Gygi S.P., Stahl P.D. The hominoid-specific oncogene *tbc1d3* modulates EGF signaling and trafficking. *J. Biol. Chem.* **283**:13233 (2008).
26. Kalesnikoff J., Rios E.J., Chen C-C., **Barbieri M.A.**, Tsai M., Tam S-Y., Galli S.J. Roles of RabGEF1/Rabex-5 domains in regulating FcεRI. *Blood.* **109**:5308 (2007).
27. Devon R., Orban P.C., Gerrow K., Schwab C., **Barbieri M.A.**, Cao L.P., Helm J.R., Mak D., Cruz-Aguardo R., Davidson T.L., Witmer J., Metzler M., Simpson E.M., El-Husseini A.E., Leavitt B.R., Hayden M.R. *Als2* deficient mice exhibit locomotor deficits, reduction in cortical motor neuron size and disturbances in endosome trafficking. *Proc. Natl. Acad. Sci. U.S.A.* **103**:9595 (2006).

28. Magadan J.G., **Barbieri M.A.**, Mesa R., Stahl P.D., Mayorga L.S. Rab22a regulates the sorting of transferrin to recycling endosomes. *Mol. Cell. Biol.* **26**:2595 (2006).
29. Wainszelbaum M.J., Proctor B.M., Pontow S.E., Stahl P.D., **Barbieri M.A.** IL4/PGE2 induction of an enlarged early endosomal compartment in mouse macrophages is Rab5-dependent. *Exp. Cell. Res.* **312**:2238 (2006).
30. Hunker C.M., Kruk I, Hall J., Giambini H., Veisaga M.L., **Barbieri M.A.** Role of Rab5 in insulin receptor mediated endocytosis and signaling. *Arch. Biochem. Biophys.* **449**:130 (2006).
31. Hunker C.M., Giambini H., Galvis A., Kruk I., Veisaga M.L., **Barbieri M.A.** Rab5 activating protein 6 (RAP6), a novel endosomal protein with a role in endocytosis. *Biochem. Biophys. Res. Commun.* **340**:967 (2006).
32. Hunker C.M., Galvis A., Veisaga M.L., **Barbieri M.A.** Rin1 is a negative regulator of the IL3 receptor signal transduction pathways. *Anticancer Res.* **26**:905 (2006).
33. Hunker C.M., Giambini H., Galvis A., Hall J., Kruk I., Veisaga M.L., **Barbieri M.A.** Rin1 regulates insulin receptor signal transduction pathways. *Exp. Cell. Res.* **312**:1106 (2006).
34. Crowder K.C., Hughes M.S., Marsh M.S., **Barbieri M.A.**, Fuhrhop R.W., Lanza G.M., Wicklin S.A. Sonic activation of molecularly-targeted nanoparticles accelerates transmembrane lipid delivery to cancer cells through contact-mediated mechanisms: Implications for enhanced local drug delivery. *Ultrasound Med. Biol.* **31**:1693 (2005).
35. Mesa R., Magadan J., **Barbieri M.A.**, Lopez C., Stahl P.D., Mayorga L.S. Overexpression of Rab22a hampers the transport between endosomes and the Golgi apparatus. *Exp. Cell. Res.* **304**:339 (2005).
36. **Barbieri M.A.**, Ramkumar T.P., Fernandez-Pol S., Chen P.I., Stahl P.D. Receptor tyrosine kinase signaling and trafficking--paradigms revisited. *Curr. Top. Microbiol. Immunol.* **286**:1 (2004).
37. **Barbieri M.A.**, Fernandez-Pol S., Hunker C.M., Horazdovsky B.H., Stahl P.D. Role of rab5 in EGF receptor-mediated signal transduction. *Eur. J. Cell. Biol.* **83**:305 (2004).
38. Heath C.M., Stahl P.D., **Barbieri M.A.** Lipid kinases play crucial and multiple roles in membrane trafficking and signaling. *Histol. Histopathol.* **18**:989 (2003).
39. **Barbieri M.A.**, Kong C., Horazdovsky B.F., Stahl P.D. The SH2 domain of RIN1 mediates its binding to the EGF receptor and regulates receptor endocytosis. *J. Biol. Chem.* **278**:32037 (2003).
40. Cordero J.B., Cozzolino M., Lu Y., Vidal M., Slatopolsky E., Stahl P.D., **Barbieri M.A.**, Dusso A.1,25-Dihydroxyvitamin D down-regulates cell membrane growth- and nuclear growth-promoting signals by the epidermal growth factor receptor. *J. Biol. Chem.* **277**:38965 (2002).

41. Stahl P.D., **Barbieri M.A.** Sequestered in a Multivesicular Body. *Science* **297**:PE32 (2002).
42. Wilkowsky S.E.,* **Barbieri M.A.**,* Stahl P.D., Isola E.L.D. Regulation of *Trypanosoma cruzi* invasion of nonphagocytic cells by the endocytically active GTPases dynamin, Rab5, and Rab7. *Biochem. Biophys. Res. Commun.* **291**:516 (2002). (*) equal contribution
43. **Barbieri M.A.**, Heath C.M., Peters E.M., Wells A., Davis J.N., Stahl P.D. Phosphatidylinositol-4-phosphate-5-kinase-1beta is essential for receptor-mediated endocytosis. *J. Biol. Chem.* **276**:47212 (2001).
44. Ricard C., Verbsky J., **Barbieri M.A.**, Chaney C., Stahl P.D. Waksman G. Molecular cloning and crystallographic analysis of embryonic and recombinant Rab guanine nucleotide Dissociation Inhibitor (GDI) from *Drosophila melanogaster*. *Genesis*. **31**:17 (2001).
45. **Barbieri M.A.**, Sha Q., Bette-Bobillo P., Stahl P.D., Vidal M. ADP-Ribosylation of Rab5 by ExoS of *Pseudomonas aeruginosa* Affects Endocytosis. *Infect Immun.* **69**:5329 (2001).
46. Tall G.G.,* **Barbieri M.A.**,* Stahl P.D., and Horazdovsky B.F. Ras-Activated Endocytosis Is Mediated by the Rab5 Guanine Nucleotide Exchange Activity of RIN1. *Developmental Cell* **1**:73 (2001). (*) equal contribution
47. Wilkowsky S.E.,* **Barbieri M.A.**,* Stahl P.D., Isola E.L.D. *Trypanosoma Cruzi*: PI 3 kinase and Protein kinase B activation are associated with parasite invasion. *Exp. Cell. Res.* **264**:211 (2001). (*) equal contribution
48. **Barbieri M.A.**, Roberts R.L., Gumusboga A., Stahl P.D. Regulators and effectors of small GTPases: Measurement of the Rab5, PKB/AKT and regulation of Ras activated endocytosis. *Methods in Enzymology*. (W.E.Balch, Channing J. and Hall A, Eds) **329**:145 (2001).
49. **Barbieri M.A.**, Roberts R.L., Gumusboga A., Highfield H., Alvarez-Dominguez C., Wells A, Stahl P.D. Epidermal growth factor and membrane trafficking. EGF receptor activation of endocytosis requires Rab5a. *J. Cell. Biol.* **151**:539 (2000).
50. Hoffenberg S., Liu X., Nikolova L., Hall H.S., Dai W., Baughn R.E., Dickey B.F., **Barbieri M.A.**, Aballay A., Stahl P.D., Knoll B.J. A novel membrane-anchored Rab5 interacting protein required for homotypic endosome fusion. *J. Biol. Chem.* **275**:24661 (2000).
51. Roberts R.L., **Barbieri M.A.**, Ullrich J., Stahl P.D. Dynamics of GFP-rab5 activation in endocytosis and phagocytosis. *J. Leukoc. Biol.* **68**:627 (2000).
52. Shyng S.L.,* **Barbieri M.A.**,* David N, Stahl P.D., Nichols C.G. Modulation of nucleotide sensitivity of KATP channels by PIP5 kinase. *Proc Natl Acad Sci U.S.A.* **97**:937 (2000). (*) equal contribution
53. Uchiya K., **Barbieri M.A.**, Funato K., Shah A.H., Stahl P.D., Groisman E.A. A *Salmonella*

virulence protein that inhibits cellular trafficking. *EMBO J.* **18**:3924 (1999).

54. Roberts R.L, **Barbieri M.A.**, Chua M., Morisaki J.H., Stahl P.D. Endosome fusion in living cells overexpressing GFP-rab5. *J. Cell Science* **112**:3667 (1999).

55. Aballay A., **Barbieri M.A.**, Colombo M.I., Arenas G.N., Stahl P.D., Mayorga L.S. A phorbol ester-binding protein is required downstream of Rab5 in endosome fusion. *FEBS Lett.* **441**:373 (1998).

56. **Barbieri M.A.**, Khon A.D., Roth R.A., Stahl P.D. Protein kinase B/akt and rab5 mediate Ras activation of endocytosis. *J. Biol. Chem.* **273**:19367 (1998).

57. **Barbieri M.A.**, Hofferberg S., Mukhopadhyay A., Dickey B.F., Stahl P.D. Evidence for a symmetrical requirement for Rab5-GTP in in vitro endosome-endosome fusion. *J. Biol. Chem.* **273**:25850 (1998).

58. Li G., D'Souza-Schorey C., **Barbieri M.A.**, Cooper J.A., Stahl P.D. Uncoupling of membrane ruffling and pinocytosis during ras signal transduction. *J Biol Chem.* **272**:10337 (1997).

59. Mukhopadhyay A., **Barbieri M.A.**, Funato K., Roberts R., Stahl P.D. Sequential actions of rab5 and rab7 regulate endocytosis in the *Xenopus* oocyte. *J. Cell. Biol.* **136**: 1227 (1997).

60. **Barbieri M.A.**, Mukhopadhyay A., Roberts R.L, Stahl P.D. Rab5 in endosome fusion. *Biocell.* **20**: 331 (1996).

61. Sosa M.A., **Barbieri M.A.**, Bertini F. Purification and characterization of beta-galactosidase from rat epididymal fluid. *Andrologia.* **28**: 271 (1996).

62. Fornes M.W., **Barbieri M.A.**, Bertini F. Electrophoretic analysis of protein selectively extracted with chaotropic agents from membranes of rat sperm. *BioCell.* **20**: 111 (1996).

63. Lammel E., **Barbieri M.A.**, Bertini F., Isola L.E.D. Trypanosoma cruzi: involvement of intracellular calcium in multiplication and differentiation. *Experimental Parasitology.* **85**:240 (1996).

64. **Barbieri M.A.**, Veisaga M.L., Paolicchi F., Fornes M.W., Sosa M.A., Mayorga L.S., Bustos-Obregon E., Bertini F. Affinity sites for beta-glucuronidase on the surface of human spermatozoa. *Andrologia.* **28**:327 (1996).

65. Alvarez-Dominguez C., **Barbieri M.A.**, Beron W., Wandinger-Ness A., Stahl P.D. Phagocytosed live *Listeria monocytogenes* influences rab5 regulated *in vitro* phagosomeendosome fusion. *J. Biol. Chem.* **271**: 13834 (1996).

66. **Barbieri M.A.**, Li G., Mayorga L.S., Stahl P.D. Characterization of rab5-GTP stimulated endosome fusion. *Arch. of Biochem. Biophys.* **326**: 64 (1996).

67. **Barbieri M.A.**, Sosa M.A., Mayorga L.S., Grimalt P., Bertini F. Phosphomannosyl receptors on the surface of spermatozoa from the cauda epididymis of rat. *International J. Andrology* **18**: 113 (1995).
68. Grimalt P., **Barbieri M.A.**, Sosa M.A., Bertini F. Organ specific binding system for beta-galactosidase in the male reproductive tract. *International J. Andrology* **18**: 243 (1995).
69. **Barbieri M.A.**, Colombo M.I., Li G., Mayorga L.S., Stahl P.D. GTPases: Key regulatory components of the endocytic pathway. *Trafficking of intracellular Membranes: From Molecular Sorting to Membrane Fusion*. (M.C. Pedrosao De Lima, N. Düzgüç and D. Hoekstra, eds) NATO ASI Series H: Cell Biology **91**:223 (1994) Springer-Verlag Berlin Heidelberg, Germany.
70. Li G., D'Souza-Schorey C., **Barbieri M.A.**, Roberts R.L., Klippel A., Williams L.T. Stahl, P.D. Evidence for phosphatidylinositol 3-kinase as a regulator of endocytosis via activation of Rab5. *Proc. Natl. Acad. Sci. U.S.A.* **92**: 10207 (1995).
71. **Barbieri M.A.**, Li G., Colombo M.I., Stahl P.D. Rab5, an early acting endosomal GTPase, supports *in vitro* endosomal fusion without GTP hydrolysis. *J. Biol. Chem.* **269**: 18722 (1994).
72. Li G., **Barbieri M.A.**, Stahl P.D. Myristoylation cannot functionally replace the isoprenylation of rab5. *Arch. Biochem. Biophys.* **316**: 529 (1995).
73. Li G., **Barbieri M.A.**, Colombo M.I., Stahl P.D. Structural features of the GTP-binding defective rab5 mutants required for their inhibitory activity on the endocytosis. *J. Biol. Chem.* **269**: 14631 (1994).
74. Fornes M.W., **Barbieri M.A.**, Cavicchia C. Morphological and enzymatic study of membrane-bound vesicles from the lumen of rat epididymis. *Andrologia* **27**: 1 (1994).
75. **Barbieri M.A.**, Sosa M.A., Couso R., Ielpi L., Merello S., Tonn C.E, Bertini F. High affinity sites for N-acetyl-beta-D-glucosaminidase on the surface of rat epididymal spermatozoa. *Inter. J. Andrology* **17**: 43 (1994).
76. Fornes M.W., **Barbieri M.A.**, Burgos M.H. Sperm motility loss induced by gossypol: relation with OH scavengers, motile stimulator and malondialdehyde production. *Biochem. Biophys. Res. Commun.* **195**: 1289 (1993).
77. **Barbieri M.A.**, Lammel E., Isola E.L.D., Bertini F. Trypanosome cruzi: metacyclogenesis inhibition by mannose. *Biochem. Biophys. Res. Commun.* **187**: 108 (1992).
78. Fornes M.W., **Barbieri M.A.**, Sosa M.A., Bertini F. First observations on enzymatic activity and protein content of vesicles separated from rat epididymal fluid. *Andrologia* **23**: 347 (1991).
79. Sosa M.A., **Barbieri M.A.**, Bertini F. Binding of beta-galactosidase from rat epididymal fluid to the sperm surface by high-affinity sites different from phosphomannosyl receptors. *J. Reprod. Fert.* **93**: 279 (1991).

Non-refereed publications

1. Veisaga M.L., Chin C., Priestap H.P., Francisco-Ortega J., Jestrow B., Commock K., Campbell K., and **Barbieri M.A.** From the garden to the laboratory the search for natural compounds. *The Tropical Garden*. (2014).
2. Mustafi S., Rivero N., Olson J.C., Stahl P.D., and Barbieri M.A. *World biomedical Frontiers*. ISSN: 2328-0166. <http://biomedfrontiers.org/infection-2014-6-7/>

Books chapters

1. Mustafi, S.M., Meifung, S., Chin. C., Kim L.W., **Barbieri, M.A.** *Cellular Biology Laboratory 1:1* (2014).
2. *Essential Cell Biology*. 4th ed. Chapter 12: Stahl P.D., **Barbieri M.A.**, and Roberts R.L. *Movie on Rab5-Positive Endosome Fusion* (2013).
3. Stahl P.D., **Barbieri M.A.**, and Roberts R.L. *Intracellular vesicles traffic-endosome fusion*. Chapter 13.4 *Molecular Biology of the Cell*, (Alberts, Johnson, Lewis, Raff, Roberts, Walter. Eds) (2002) 4th Edition. Garland Science, NY.

PRESENTED PAPERS, LECTURES, ABSTRACTS, MEETINGS AND LECTURESHIPS

1. Science Research Conference, Federation of America Societies for Experimental Biology (FASEB) (U.S., 2016)
Title: A single amino acid change in Ras Interference 1 alters its function.
Huang, Y., Zhang, W., Veisaga, M.L., Barbieri, M.A.
2. Summer Research Internship Mini-symposium Florida International University, Miami, FL (U.S., 2016).
Title: Natural Compounds from Tropical Plants as Anti-bacterial Agents
Jackson, A., Soriano, S., Veisaga, M.L., Lorence, D.H., Barbieri, M.A.
3. Summer Research Internship Mini-symposium Florida International University, Miami, FL (U.S., 2016).
Title: The Chemistry and Biological Activities of Natural Products from tropical Plants.
Senti, A., Soriano, S., Veisaga, M.L., Lorence, D.H., Barbieri, M.A.
4. 30th European Immunogenetics and Histocompatibility Conference (E.U., 2016).
Title: Functional annotations of common disease markers in immune regulatory genes
Singh S.K., Huang Y., Caobi A., Barbieri M.A., Dorak M.T.
5. Biology Research Symposium Florida International University, Miami, FL (U.S., 2016).
Title: The Effects of Dehydroparishin-B and Dehydroleucodine on Adipocyte Differentiation
Aboud S., Barbieri M.A.

6. 18th Annual Biomedical and Comparative Immunology Symposium (U.S., 2016).
Title: The Inhibitory Effect of Dehydroparishin-B on Adipogenesis
Llompart D., Barbieri M.A.
7. Undergraduate Research Symposium. St. Thomas University, (U.S., 2015).
Title: Inhibitory effect of Clitoria ternatea flower petal extract on fructose-induced protein glycation and oxidation-dependent damages to albumin in vitro
Chayaratanasin P., Barbieri M.A., Suanpairintr N., Adisakwattana S.
8. Undergraduate Research Symposium. St. Thomas University, (U.S., 2015).
Title: Natural Components as Biological Agents with Multiple Cellular Activities: Focusing on the Genus of Artemisia
Soriano S., Chin C., Veisaga M.L., Barbieri M.A.
9. Undergraduate Research Symposium. St. Thomas University, (U.S., 2015).
Title: Inhibitory effect of Clitoria ternatea flower petal extract on mehtylglyoxal mediated adipogenesis through Akt pathway.
Chayaratanasin P., Barbieri M.A., Suanpairintr N., Adisakwattana S.
10. American Society for Cell Biology (ASCB) Annual Meeting (U.S., 2015).
Title: A single amino acid change in Ras Interference 1 alters its function.
Huang Y., Ocasio E., Veisaga M.L., Barbieri M.A.
11. American Society for Cell Biology (ASCB) Annual Meeting (U.S., 2015).
Title: The Effects of Dehydroparishin-B on Adipocyte Differentiation.
Llompart D., Abood S., Veisaga M.L., Lopez L.A., Barbieri M.A.
12. American Society for Cell Biology (ASCB) Annual Meeting (U.S., 2015).
Title: Rab5-Activating Protein 6 (RAP6) is required for Rab5 activation upon insulin stimulation.
Chantarasinlapin P., Veisaga M.L., Huffman F.G., Barbieri M.A.
13. America Annual Biomedical and Comparative Immunology Symposium Florida International University, Miami, FL (U.S., 2014).
Title: Endocytic trafficking mediates cell migration and cell proliferation in cancer cells
Porter N., Barbieri M.A.
14. American Society for Cell Biology (ASCB) Annual Meeting (U.S., 2014).
Title: Requirements of Rab5 activity in highly invasive breast cancer cells
Porter N., Barbieri M.A.
15. Biology Research Symposium. Florida International University, Miami, FL (U.S., 2014).
Title: Growth Factor induces Metastasis via Rab5 Activation
Porter N., Barbieri M.A.
16. Biology Research Symposium, Department of Biological Sciences, FIU, Miami, FL, (U.S.,

- 2014).
Title: Rin1, via activation of Rab5, is a key regulator cell invasion and migration.
Porter N., Barbieri M.A.
17. Biology Research Symposium, Department of Biological Sciences, FIU, Miami, FL, (U.S., 2014).
Title: Rin1 is a key regulator of preadipocyte 3T3-L1 differentiation.
Galvis A., Barbieri M.A.
18. American Society for Cell Biology (ASCB), (U.S., 2013).
Title: Rab5 is a key regulator cell invasion and migration.
Porter N., Barbieri M.A.
19. American Society for Cell Biology (ASCB), (U.S., 2013).
Title: Rab5 GEF and internalization of *P. aeruginosa*.
Mustafi S., Barbieri M.A.
20. American Society for Cell Biology (ASCB), (U.S., 2013).
Title: Selective activation of Rab5 by distinct endocytic pathways.
Galvis A., Barbieri, M.A
21. Universidad Mayor San Simon (UMSS), (Bolivia, 2013).
Title: Advance topics in modern cell and molecular biology.
Barbieri M.A.
22. Universidad Mayor San Simon (UMSS), (Bolivia, 2013).
Title: Anti-proliferative activities of Artemisia plants extracts.
Barbieri M.A.
23. American Society for Microbiology (ASM), (U.S., 2013).
Title: Small GTPase Rab5 and internalization of *P. aeruginosa*.
Mustafi S., Barbieri M.A.
24. Undergraduate Research Symposium. St. Thomas University, (U.S., 2013).
Title: Role of ras oncogene on in vitro 3T3L1 peradipocytes differentiation.
Gonzalez V., Barbieri M.A.
25. Undergraduate Research Symposium St. Thomas University, (U.S., 2013).
Title: Antibacterial activity of Artemisia species extract on *P. aeruginosa*.
Soriano S., Barbieri M.A.
26. Biology Research Symposium, Department of Biological Sciences, FIU, Miami, FL, (U.S., 2012).
Title: Effect of Rab5 GEFs on EGFR internalization.
Jozic J., Barbieri M.A.
27. Undergraduate Research Symposium. St. Thomas University, (U.S., 2012).
Title: Dehydroparishin-B, a sesquiterpene acid isolated from *Artemisia douglasiana*, inhibits

proliferation and motility of B16 melanoma cells.
Stefancin C., Barbieri M.A.

28. Undergraduate Research Symposium St. Thomas University, (U.S., 2012).
Title: Effect of DhL on Rab5-dependent adipogenesis.
Rivero N., Barbieri M.A.

29. International Workshop on the Molecular Biology of Stress Responses, (Brazil, 2012).
Title: Inhibition of Rab5 activation during Live *Pseudomonas*-macrophage interaction
Barbieri M.A.

30. American Society for Microbiology (ASM), (U.S., 2011).
Title: Role of Rin1 in *Pseudomonas aeruginosa* invasion.
Mustafi, S. Barbieri, M.A.

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Title: Rab5 activation during *Pseudomonas aeruginosa* invasion.
Mustafi, S. Barbieri, M.A.

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Title: Rab5 GEFs and EGFR internalization.
M.A. Barbieri

33. Biology Research Symposium, Department of Biological Sciences, FIU, Miami, FL, (U.S., 2011).
Title: Effect of Tyrosine Kinase Inhibitors on Early Endosome Fusion and Activation of Rab5.
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Title: The Role of Rin1 Mutants in EGFR Internalization and Cell Signaling.
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Zayas J., Barbieri M.A.
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45. Biology Research Symposium, Department of Biological Sciences, FIU, Miami, FL, (U.S., 2009).
Title: The role of Rab proteins in adipogenesis.
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Galvis, A. Barbieri, M.A.
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48. Sociedad de Biología de Cuyo (SBC) (Argentina, 2008).
Title: Tráfico de vesículas intracelular. (Intracellular vesicular trafficking)
Barbieri M.A.
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Title: Rab5 activating protein (RAP)-6 is a key regulator of Ras-Stimulated signaling pathways
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Giambini H., Hall J., Hunker C.M., Veisaga M.L. Barbieri M.A.

53. Fifth International Workshop on Cancer and Stress: Techniques for *in vivo* and *in vitro* detection assays. Cell Stress Society International (CSSI). Conception University (Chile, 2006).

Title: Blocking effect of Ras interference 1 during endocytosis.

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Title: Ras Interference 1 and Insulin Receptor Signaling.

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55. Workshop on tissue culture: protein expression. Techniques for *in vivo* regulation and *in vitro* reconstitution. Aconcagua University (Argentina, 2005).

Title: The retrovirus as a tool for studying endocytosis

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Title: Rab22a Regulates the Transferrin Receptor Sorting in Chinese Hamster Ovary Cells.

Magadan J.G., Mesa R., Barbieri M.A., Stahl P.D, Mayorga L.S.

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Title: The SH2 domain of Rin1 mediates its binding to the EGF receptor and regulates receptor endocytosis.

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Title: Role of Rab5-Rin1 complex in the fusion reaction.

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59. American Society for Biochemistry and Molecular Biology (ASBMB) (U.S., 2001).

Title: Role of the PI-3kinase and AKT in the fusion reaction.

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Title: Endosome fusion in living cells.

Roberts R.L., Barbieri M.A., Stahl P.D.

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Title: Expression of AKT and its role on endocytosis.

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Title: Characterization of Rab5-GTP stimulated endosome fusion.

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Title: Rab5 supports fusion reaction with GTP hydrolysis.

Barbieri M.A., Stahl P.D.

65. Washington University (Dept. Cell Biology and Physiology) (U.S., 1993).

Title: Role of Mannose 6-phosphate receptor on the sperm cell surface.

Barbieri M.A.

FUNDED RESEARCH

Current

Title: Functional Genomics of Disease-associated HLA Region Polymorphisms.

Agency: Department of Defense (DoD)-62690-RT-REP

PI: M.A. Barbieri (I was Co-PI during 8/2013 to 12/2013)

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PROFESSIONAL HONORS, PRIZES, FELLOWSHIP (since 2010)

1-Visiting Research Professor, Instituto de Histología y Embriología, Escuela de Medicina, Universidad Nacional de Cuyo, Mendoza, Argentina (7/2014).

2-Fulbright-International Educational Exchange Program, Universidad Mayor San Simon, Cochabamba, Bolivia (7/2013).

3-ASCB MAC Linkage Fellows, Department of Biological Sciences, Florida

International University, Miami, FL (2011).

4-MAC (Minority Affair Committee) ASCB (American Society of Cell Biology)-
Visiting Professor Award, Department of Biochemistry and Molecular Pharmacology,
University of Massachusetts (2010).

PROFESSIONAL SOCIETIES AND ORGANIZATIONS

- The American Society for Cell Biology (ASCB)
- The American Society for Microbiology (ASM)
- Cell Stress Society International (CSSI)