CURRICULUM VITAE

PERSONAL INFORMATION

NAME:	Rafael Pérez-Ballestero
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EDUCATION AND PROFESSIONAL EXPERIENCE

College Education

1994-1998:	Graduate student at the University of Michigan. Department: Biochemistry. Degree awarded: Ph.D. in 1998.
1992-1994:	Graduate student at the University of Michigan. Department: Biochemistry. Degree awarded: M.S. in 1994.
1990-1992:	Graduate student at the University Autonoma of Madrid (Biomedical Research Institute, Spanish Research Council). Department: Biochemistry.
1988-1990:	Undergraduate student at the University Autonoma of Madrid. Major: Biochemistry and Molecular Biology. Degree awarded: Licenciado (B.S.) in 1990.
1985-1988:	Undergraduate student at the University Complutense of Madrid. Major: Biology.

Professional Experience

Sep2012-Present:	Professor, Department of Biological and Health Sciences, Texas A&M University-Kingsville. Research projects: “1: Biochemistry of Nerve Regeneration and Neuronal Cellular and Molecular Biology; 2: Biochemistry of Programmed Cell Death”; 3: Biomedical Applications of Nanotechnology.
Sep2005-Aug2012:	Associate Professor, Department of Biology (Biological and Health Sciences since Fall 2006), Texas A&M University-Kingsville. Research

projects: “1: Biochemistry of Nerve Regeneration and Development of the Nervous System in Zebrafish; 2: Biochemistry of Programmed Cell Death”; 3: Biomedical Applications of Nanotechnology.

Sep2001-Aug2005: Assistant Professor, Department of Biology, Texas A&M University-Kingsville. Research projects: “1: Biochemistry of Nerve Regeneration and Development of the Nervous System in Zebrafish; 2: Biochemistry of Programmed Cell Death”.

Sep1998-Aug2001: Laboratory Technical Coordinator and Adjunct Professor, Department of Chemistry. Texas A&M University-Kingsville. Research work: “1: Biochemistry of Nerve Regeneration in Zebrafish; 2: Biochemistry of Programmed Cell Death.

Sep1992-May1998: Graduate Student Research Assistant in the Biological Chemistry Department at the University of Michigan. Co-Mentors: Michael D. Uhler Ph.D., Associate Professor, and Bernard W. Agranoff M.D., Professor, University of Michigan. Research work: “Characterization of RICH, a CNPase Homolog Induced During Optic Nerve Regeneration”.

Jun1992-Aug1992: Visiting Student in the Department of Microbiology and Immunology, University of Michigan. Mentor: Richard Jove Ph.D., Assistant Professor, University of Michigan. Research work: “Interactions Between Viral Src Tyrosine Kinase and rasGAP”.

1990-May1992: Graduate Student Research Assistant in Biochemistry and Molecular Biology. University Autonoma of Madrid, Spain. Mentor: Juan Carlos Lacal Sanjuan Ph.D., Scientific Researcher of the Institute for Biomedical Research, Spanish Research Council (IIB, CSIC). Research work: “*ras* Oncogenes and *ras* Related Genes, Mechanisms of Action”.

1989: Undergraduate Research Assistant in Plant Cell Biology. Mentor: Maria del Carmen Risueño Almeida Ph.D., Scientific Researcher, Biological Research Center (CIB), Spanish Research Council (CSIC), Madrid, Spain. Research work: “Pollen Grain Development”.

Sep1988-Jul1989: Undergraduate Research Assistant in Microbiology. Mentor: Francisca Fernandez del Campo Ph.D., Professor, University Autonoma of Madrid, Spain. Research work: “Nitrogen and Hydrogen Metabolism Interrelation in Nitrogen–Fixing Filamentous Cyanobacteria”.

PUBLICATIONS

Scientific Journals

1. Pathi S.S., Jose S., Govindaraju S., Conde J.A., Romo H.E., Chamakura K.R., Claunch C.J., Benito-Martín A., Challa-Malladi M., González-García M., and **Ballestero R.P.**

(2012) zRICH, a Protein Induced During Optic Nerve Regeneration in Zebrafish, Promotes Neuritogenesis and Interacts with Tubulin. Brain Res. 1474: 29-39. (PMCID: PMC3526659; PMID: 22885342)

2. Conde J.A., Claunch C.J, Romo H.E., Benito-Martín A., **Ballestero R.P.**, and González-García M. (2012) Identification of a Motif in BMRP Required for Interaction with Bcl-2 by Site-directed Mutagenesis Studies. J. Cell Biochem 113: 3498-3508. (PMID: 22711503)
3. Bashir S., Chamakura K., **Perez-Ballestero R.**, Luo Z., and Liu J. (2011) Mechanism of Silver Nanoparticles as a Disinfectant, Int J Green Nanotechnol: Phys and Chem. 2011(3): 118-133. (PMID: 21253851)
4. Malladi S., Parsa K.V., Bhupathi D., Rodriguez-Gonzalez M.A., Conde J.A. Anumula P., Romo H.E., Claunch C.J., **Ballestero R.P.**, and González-García M. (2011) Deletion Mutational Analysis of BMRP, a Pro-Apoptotic Protein that Binds to Bcl-2. Mol Cell Biochem. 351:217-232. (PMID: 21253851; DOI: 10.1007/s11010-011-0729-1)
5. Chamakura K., **Perez-Ballestero R.**, Luo Z., Bashir S., and Liu J. (2011) Comparison of Bactericidal Activities of Silver Nanoparticles with Common Chemical Disinfectants. Colloids Surf, B. 84: 88-96 (PMID: 21227664; DOI: 10.1016/j.colsurfb.2010.12.020)
6. Challa M., Chapa G.R., Govindaraju S., González-García M. and **Ballestero R.P.** (2006) Characterization of the Domains of zRICH, a Protein Induced During Optic Nerve Regeneration in Zebrafish. Brain Res. 1100(1): 42-54. (PMID: 16765331)
7. Chintarlapalli S.R., Jasti M., Malladi S., Parsa K.V., **Ballestero R.P.**, González-García M. (2005) BMRP is a Bcl-2 binding protein that induces apoptosis. J. Cell Biochem. 94: 611-626. (PMID: 15547950)
8. Vancha A.R., Govindaraju S, Parsa K.V., Jasti M, González-García M., **Ballestero R.P.** (2004) Use of polyethyleneimine polymer in cell culture as attachment factor and lipofection enhancer. BMC Biotechnol. 4(1):23 (PMCID: PMC526208; PMID: 15485583)
9. **Ballestero R.P.**, Dybowski J.A., Levy G., Agranoff B.W. and Uhler M.D. (1999) Cloning and characterization of zRICH, a zebrafish 2',3'-cyclic-nucleotide 3'-phosphodiesterase induced during zebrafish optic nerve regeneration. J. Neurochem. 72: 1362-1371. (PMID: 10098837)
10. **Ballestero R.P.**, Wilmot G.R., Agranoff B.W. and Uhler M.D. (1997). gRICH68 and gRICH70 are 2',3'-cyclic-nucleotide 3'-phosphodiesterases induced during goldfish optic nerve regeneration. J. Biol. Chem. 272: 11479-11486. (PMID: 9111061)
11. **Ballestero R.P.**, Wilmot G.R., Leski M.L., Uhler M.D. and Agranoff B.W. (1995). Isolation of cDNA clones encoding RICH: A protein induced during goldfish optic nerve regeneration with homology to mammalian 2',3'-cyclic-nucleotide 3'-phosphodiesterases. Proc. Natl. Acad. Sci. USA 92: 8621-8625. (PMCID: PMC41018; PMID: 7567986)

12. Seasholtz A.F., Gamm D.M., **Ballestero R.P.**, Scarpetta M.A., Olsen S.R. and Uhler M.D. (1995). Differential expression of mRNAs for protein kinase inhibitor isoforms in mouse brain. Proc. Natl. Acad. Sci. USA. 92: 1734-1738. (PMCID: PMC42594; PMID: 7878050)
13. Gonzalez-Garcia M., **Perez-Ballestero R.**, Ding L., Duan L., Boise L.H., Thompson C.B. and Nuñez G. (1994). *Bcl-xL* is the major *bcl-x* mRNA form expressed during murine development and its product localizes to mitochondria. Development 120: 3033-3042. (PMID: 7607090)
14. Perona R., Esteve P., Jiménez B., **Ballestero R.P.**, Ramon y Cajal, S. and Lacal, J.C. (1993). Tumorigenic activity of *rho* genes from *Aplysia californica.* Oncogene 8: 1285-1292. (PMID: 8479750)

Book Chapters

1. Gelalcha, F.G., Gonzalez-Garcia M., **Perez-Ballestero R.**, Polyethyleneimine: Cell Cultures. In: Encyclopedia of Biomedical Polymers and Polymeric Biomaterials (2014). Edited by Mishra, M., Taylor and Francis, New York. DOI: 10.1081/E-EBPP-120051076.
2. Liu J., Chamakura K., **Perez-Ballestero R.**, Bashir, S. (2012) Historical overview of the first two waves of bactericidal agents and development of the third wave of potent disinfectants. In Nanomaterials for Biomedicine. Edited by Nagarajan R. ACS Symposium Series 1119, Oxford University Press. pp 129-154.
3. Jiménez B., **Ballestero R.P.** and Lacal J.C. (1994) Oncogenes y genes supresores (Oncogenes and tumor suppressor genes). In “Avances en ingeniería genética (Advances in genetic engineering)”. Edited by Vicente, M.. Consejo Superior de Investigaciones Científicas (CSIC), Madrid. pp 299-320.
4. Perona R., **Ballestero R.P.**, Lacal J.C. (1993) The *rho* gene family. In “The *ras* superfamily of GTPases” Edited by Lacal, J.C. and McCormick, F. CRC Press, Boca Raton. pp. 259-282.
5. **Ballestero R.P.**, Esteve P., Perona R., Jiménez B. and Lacal J.C. (1991) Biological function of *Aplysia californica rho* gene. In “The superfamily of *ras*-related genes”. NATO-ASI series. Edited by Spandidos, D.A.. Plenum Press, New York. pp. 237-242.

Abstracts and Presentations

1. Uskamalla S, Bandla AC, González-García M, and **Ballestero RP** (2019) Analysis of Expression Levels of Catalytically Inactive Mutant of zRICH, and Its Effects on the Neurite Branching in Transfected PC12 Cells. Thirteenth Annual Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
2. Dimas, JJ, **Ballestero RP** and González-García M (2019) Preparing competent bacteria and measuring transformation efficiency. Seventh Undergraduate Research

Microsymposium. Texas A&M University-Kingsville, Kingsville, Texas.

3. Villarreal VA, Uskamalla S, Bandla AC, González-García M, and **Ballestero RP** (2019) Gene Silencing in PC12 Stable Cell Lines Expressing GAP43-tGFP. Seventh Undergraduate Research Microsymposium. Texas A&M University-Kingsville, Kingsville, Texas.
4. Bandla AC, González-García M, and **Ballestero RP** (2019) Delineating Expression Levels of Fluorescently Tagged Mutant zRICH Protein in Differentiated PC12 Cells. Seventh Undergraduate Research Microsymposium. Texas A&M University-Kingsville, Kingsville, Texas.
5. Ocheltree JS, González-García M, and **Ballestero RP** (2019) Determining Concentration Levels of zRICH-WT after Purification by Immobilized Metal Affinity Chromatography, and Comparing the Sensitivity Between Bradford Assay and Western Blot. Seventh Undergraduate Research Microsymposium. Texas A&M University-Kingsville, Kingsville, Texas.
6. Cantu MJ, Uskamalla S, González-García M, and **Ballestero RP** (2019) Quantification of Neurite Extension in the PC12 Cell Line to Study the Effects of Proteins on Differentiation. Seventh Undergraduate Research Microsymposium. Texas A&M University-Kingsville, Kingsville, Texas.
7. Villarreal MR, Claunch CJ, Hager EC, **Ballestero RP** and González-García M (2018): Functional Analysis of Mutants of the Pro-apoptotic Protein BMRP. Fifth Department of Chemistry's Undergraduate Research Microsymposium (URMS). Texas A&M University-Kingsville, Kingsville, Texas.
8. Villarreal MR, Claunch CJ, Hager EC, **Ballestero RP** and González-García M (2018): Functional Analysis of Mutants of the Pro-apoptotic Protein BMRP. The Honor Society of Phi Kappa Phi Student Research Forum. Texas A&M University-Kingsville, Kingsville, Texas.
9. Villarreal MR, Claunch CJ, Hager EC, **Ballestero RP** and González-García M (2018): Functional Analysis of Mutants of the Pro-apoptotic Protein BMRP. Eleventh Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas. Note: This presentation received the First Place Award, Master's Division, at this research symposium.
10. Uskamalla S, Bandla AC, Villarreal VA, González-García M, and **Ballestero RP** (2018): Study of GAP43 and its Effects on Neuritogenesis in PC12 Cells. Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
11. Villarreal VA, Bandla AC, González-García M, and **Ballestero RP** (2017): Identifying the Mechanism of Gene Silencing in PC12 Stable Cell Lines Expressing GAP43-tGFP. Fourth Department of Chemistry's Undergraudate Research Microsymposium (URMS). Texas A&M University-Kingsville, Kingsville, Texas.
12. Sheth A, Bandla AC, González-García M, and **Ballestero RP** (2017): Quantitation of the

Effects of RFP-zRICH-H334A Fusion Protein on Neuritogenesis Using NeuronJ-ImageJ Software for Morphometric Analysis. Eight Annual Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.

13. Hager EC, Claunch CJ, Edara VVC, **Ballestero RP** and González-García M (2016): Identification and Functional Characterization of Motifs Responsible for the Pro-Apoptotic and Binding Activity of BMRP. Thirteenth Annual TAMUS Pathways Research Symposium. Prairie View A&M University. Prairie View, Texas.
14. Zarate SM, Sheth AS, González-García M, and **Ballestero RP** (2016): Generation of Stable Transfectant PC12 Cell Lines Expressing GFP-Fusion Protein BASP1 to Elucidate Its Neuritogenerative Properties. Thirteenth Annual TAMUS Pathways Research Symposium. Prairie View A&M University. Prairie View, Texas.
15. Zarate SM, González-García M, and **Ballestero RP** (2016): Generation of Stable Transfectant PC12 Cells Expressing the Nerve Regeneration Associated Proteins BASP1 and NCAM140 to Elucidate Their Neuritogenic Properties. Seventh Annual Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
16. Bandla AC, González-García M, and **Ballestero RP** (2015): Development of Morphometric Methods to Analyze Effects of zRICH Mutant Proteins on Neuritogenesis in PC12 Cells Using a Fluorescence-Based Assay. 2015 Annual Society for Neuroscience (SfN) – TAMU Chapter Symposium. Texas A&M University. College Station, Texas.
17. Hager EC, Claunch CJ, Edara VVC, **Ballestero RP** and González-García **M** (2015): Identification of Motifs Responsible for the Pro-Apoptotic Activity of BMRP. Twelfth Annual TAMUS Pathways Research Symposium. Texas A&M University-Corpus Christi. Corpus Christi, Texas.
18. Zarate SM, Bandla AC, González-García M, and **Ballestero RP** (2015): Development of a Differentiation Assay to Study the Effects of zRICH and CAP23 on the Neuroplastic Abilities of PC12 Cells. Twelfth Annual TAMUS Pathways Research Symposium. Texas A&M University-Corpus Christi. Corpus Christi, Texas.
19. Villarreal VA, Bandla AC, **Ballestero RP** and González-García M (2015): Generation of Recombinant Bcl-2 Constructs to Be Utilized in Characterization Studies of the Pro-apoptotic Protein BMRP. Twelfth Annual TAMUS Pathways Research Symposium. Texas A&M University-Corpus Christi. Corpus Christi, Texas.
20. Bandla AC, Cruz EN, González-García M, and **Ballestero RP** (2015): Development of a Fluorescence-Based Assay to Analyze the Effects of the Growth Associated Protein zRICH on the Structural Plasticity of PC12 Cells. 6th Annual Javelina Research Symposium. Kingsville, TX.
21. Cruz EN, Bandla AC, González-García M, and **Ballestero RP** (2015): Generation of a Recombinant Construct for the Analysis of the *gRICH70* Gene Promoter. 6th Annual

Javelina Research Symposium. Kingsville, TX.

22. Villarreal VA, Edara V, **Ballestero RP** and González-García M (2015): Generation of Constructs for the Characterization of BMRP's Pro-apoptotic Function. 6th Annual Javelina Research Symposium. Kingsville, TX.
23. Cruz, EN, Bandla, AC, González-García M, and **Ballestero RP** (2014): Promoter Analysis of the *gRICH70* Gene: Deletion of Sp1, a Phylogenetically Conserved Element. 2014 SACNAS National Conference. Los Angeles Convention Center. Los Angeles, California.
24. Villarreal VA, Edara, V, **Ballestero RP** and González-García M (2014): Generation of a Bcl-2 and Bcl-XL Recombinant Proteins to be Used in Analyses of the Pro-apoptotic Activity of BMRP. 2014 SACNAS National Conference. Los Angeles Convention Center. Los Angeles, California.
25. Cruz, E.N., Bandla, A.C., Maribel González-García, and **Ballestero R.P.** (Oct 2014) Promoter Analysis of the gRICH70 Gene: Deletion of Putative Promoter Element Sp1. TAMUK 19th Annual Ronald E. McNair Scholars Summer Research Presentations. Texas A&M University-Kingsville, Kingsville, Texas.
26. Villarreal VA, **Ballestero RP** and González-García M (Oct 2014): Generation of a Bcl-2 Recombinant Protein to be Utilized in Analyses of the Pro-apoptotic Activity of BMRP. 19th Annual Ronald E. McNair Scholars Summer Research Symposium. Kingsville, Texas
27. Villarreal VA, Reddy SB, Cruz EN, Castro AS, Elizondo AM, **Ballestero RP** and González-García M (2014): Generation of a Mutant hBclxL Construct to Be Used in Functional Analysis of the Pro-apoptotic Protein BMRP. 247th ACS National Meeting & Exposition, Biological Chemistry Section, Dallas, TX.
28. Cruz EN, Villarreal VA, Reddy SB, Castro AS, Elizondo AM, **Ballestero RP** and González-García M (2014): Generation of a Mutant Protein for the Functional Characterization of the Bcl-2 Interacting Protein BMRP. 2nd Regional Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
29. Bandla AC, González-García M**,** and **Ballestero RP** (2013): Analysis of Phylogenetically Conserved Regions of the Nerve Regeneration Related *gRICH70* Gene. Eleventh Annual TAMUS Pathways Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
30. Dasanna S, Villarreal VA, Narváez AN, **Ballestero RP** and González-García M (2013): Generation of Bcl-2 Mutants to Be Used in the Characterization of the Human Pro-apoptotic Protein BMRP. Eleventh Annual TAMUS Pathways Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
31. Edara VVC, Claunch CJ, **Ballestero RP** and González-García M (2013): Functional and Expression Studies of BMRP Mutants to Identify BMRP's Pro-apoptotic Domain. Eleventh Annual TAMUS Pathways Research Symposium. Texas A&M University-

Kingsville, Kingsville, Texas.

32. Villarreal VA, Reddy SB, Cruz EN, Castro AS, Elizondo AM, **Ballestero RP** and González-García M (2013) Generation of a Mutant Construct to Be Used in Studies of the Pro-apoptotic Protein BMRP. Eleventh Annual TAMUS Pathways Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
33. Bandla A.C., Gaona D., Atthuluri S.H., González García M, and **Ballestero R.P.** (2013): Identification of elements in the promoter region that regulate the activity of the *gRICH70* gene. 1st Regional Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
34. Atthuluri S.H., Chamakura K.R., Bandla A.C., González-García M., and **Ballestero R.P.** (2013): Analysis of the nerve regeneration gene *grich70* by progressive promoter region deletions. 1st Regional Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
35. Reddy SB, Villarreal V, **Ballestero RP** and González-García M (2013): Generation of a hBcl-xL Mutant Protein to be Used in the Functional Characterization of the Pro-apoptotic Protein BMRP. 1st Regional Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
36. Edara VVC, Claunch CJ, **Ballestero RP** and González-García M (2013): Analysis of Six BMRP Alanine Substitution Mutants to Identify the Pro-apoptotic Region of BMRP. 1st Regional Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
37. **Ballestero R.P.** (2012): zRICH: a Protein Involved in Nerve Regeneration in Zebrafish. Texas A&M University-Kingsville and Texas A&M Health Science Center Rangel College of Pharmacy Mini-Colloquium. Rangel College of Pharmacy, Kingsville, Texas.
38. Campos R., Ramirez B., Chintalapati S., González-García M.**,** and **Ballestero R.P.** (2012): Generation of Reporter Plasmid Construct for Promoter Analysis of gRICH70 Gene. 12th Annual Recognition Research Study Presentations of the Upward Bound Math and Science (UBMS) Program. Texas A&M University-Kingsville, Kingsville, Texas.
39. Escalante Y., Salazar J., Chowdary E.V.V., **Ballestero R.P**., and González-García M. (2012): Generation of Plasmid Constructs for Analyzing Caspase Cleavage Site of Bcl-2 Protein. 12th Annual Recognition Research Study Presentations of the Upward Bound Math and Science (UBMS) Program. Texas A&M University-Kingsville, Kingsville, Texas.
40. Atthuluri S.H., Chintalapati S., Chamakura K.R., Bandla A.C., González-García M., and **Ballestero R.P.** (2011): Promoter Region Analysis of gRICH70, a Gene that Is Induced During Nerve Regeneration. Ninth Annual TAMUS Pathways Research Symposium. Texas A&M University, College Station, Texas.

41. Chintalapati S, Claunch C.J., Benito-Martín A., Stone S.D., **Ballestero R.P.**, and González-García M. (2011): Characterization of the BMRP/Bcl-2 Interaction by Chimeric Protein Analysis. Ninth Annual TAMUS Pathways Research Symposium. Texas A&M University, College Station, Texas.
42. Hagen C., González-García M., and **Ballestero R.P.** (2011): Generation of Reporter Plasmid Constructs for Promoter Analysis of gRICH70 Gene. TAMUK 16th Annual Ronald E. McNair Scholars Summer Research Presentations. Texas A&M University-Kingsville, Kingsville, Texas.
43. Chamakura K.R., **Ballestero R.P.**, Bashir S., and Liu J.L. (2010): Comparison of the efficacy of chemical and nanoparticles-based disinfectants against *Escherichia coli* as model organism. 2010 Materials Research Society Fall Meeting, Boston, Massachusetts.
44. Chamakura K.R., **Ballestero R.P.**, Bashir S., Luo Z. and Liu J.L. (2010): Silver Nanoparticles (AgNPs): A Stable and Long Lasting Disinfectant. Eight Annual TAMUS Pathways Research Symposium. West Texas A&M University, Canyon, Texas.
45. Claunch C.J., Rodríguez M.A., Parsa K.V.L., **Ballestero R.P.** and González-García M. (2010): Deletion and Substitution Mutants to Delimit Pro-apoptotic Region of BMRP. Eight Annual TAMUS Pathways Research Symposium. West Texas A&M University, Canyon, Texas.
46. Chamakura K.R., **Ballestero R.P.**, Bashir S., and Liu J.L. (2010): Comparison of bactericidal activity against *Escherichia coli* of silver nanoparticles with chemical disinfectants. American Chemical Society 240th National Meeting, Boston, Massachusetts.
47. Hagen C., González-García M. and **Ballestero R.P.** (2010): Generation of a Promoter Construct to Study the gRICH70 Gene (pGL3-gRICH70prom1.5K). TAMUK 15th Annual Ronald E. McNair Scholars Summer Research Presentations. Texas A&M University-Kingsville, Kingsville, Texas.
48. Claunch C.J., Benito-Martín A., **Ballestero R.P.** and González-García M. (2010): The Generation of Chimeric Proteins Between hBMRP and dBMRP to Further Delimit the Domain(s) of hBMRP Required for Binding to Bcl-2. Second Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
49. Chamakura K.R., Diaz D., **Ballestero R.P.**, Bashir S. and Liu J.L. (2010): Bactericidal Activity of Silver Nanoparticles Prepared Using Green Chemistry. College of Pharmacy Research Colloquium. Irma Lerma Rangel College of Pharmacy. Texas A&M University Health Science Center, Kingsville, Texas.
50. Claunch C.J., Benito-Martín A., **Ballestero R.P.** and González-García M. (2010): hBMRP a Mitochondrial Ribosomal Protein with Pro-apoptotic Function, dBMRP Not a Killer. NIH Bridges to the Doctorate in Biomedical Sciences Program and

SURP Research Symposium. University of Texas Medical Branch at Galveston, Galveston, Texas.

51. Conde J.A., Malladi S., Rodríguez M.A., Parsa K.V.L, **Ballestero R.P.** and González-García M. (2010): Domain Analysis of the Pro-apoptotic Function of BMRP, a Bcl-2 Interacting Protein. First Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
52. Romo H.E., Conde J.A., Anumula P., **Ballestero R.P.** and González-García M. (2010): Identification of Domains and Motifs of BMRP Involved in Its Interaction with Anti-apoptotic Bcl-2. First Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
53. Claunch C.J., Benito-Martín A., **Ballestero R.P.** and González-García M. (2010): hBMRP a Mitochondrial Ribosomal Protein with Pro-apoptotic Function, dBMRP Not a Killer. First Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
54. Chamakura K.R., Diaz D., **Ballestero R.P.**, Bashir S. and Liu J.L. (2010): Bactericidal Activity of Silver Nanoparticles Prepared with Two Different Reduction Chemistries. First Javelina Research Symposium. Texas A&M University-Kingsville, Kingsville, Texas.
55. **Ballestero R.P.** (2010) Biochemical Analysis of zRICH, a Protein Involved in Nerve Regeneration in Zebrafish. Department of Chemistry. Texas A&M University-Kingsville. (Invited seminar, hosted by Dr Gregory A. Moehring).
56. Romo H.E., Conde J.A., Anumula P., Parsa K.V.L., **Ballestero R.P.** and González-García M. (2009): Analysis of BMRP Domains Involved in Its Binding to Anti-apoptotic Bcl-2. Seventh Annual TAMUS Pathways Research Symposium. Texas A&M University-International, Laredo, Texas.
57. Claunch C.J., **Ballestero R.P.** and González-García M. (2009): Deletion Mutational Analysis of the Pro-apoptotic Protein BMRP. NIH Bridges to the Doctorate in Reproductive Biology Program Graduate Student Visit and Mini-Symposium. College of Veterinary Medicine, Texas A&M University, College Station, Texas.
58. Romo H.E., Conde J.A., Anumula P., Parsa K.V.L., **Ballestero R.P.** and González-García M. (2009): Characterization of the Domains of BMRP that Are Involved in Its Interaction with Bcl-2. Bridges Program and SURP Research Symposium. University of Texas Medical Branch at Galveston, Galveston, Texas.
59. Pathi S.S., Jose S., Govindaraju S., Challa M., González-García M. and **Ballestero R.P.** (2008): zRICH, a Nerve Regeneration Protein Affects Neurite Morlphology in PC12 Cells. Sixth Annual TAMUS Pathways Research Symposium. Texas A&M University-Commerce, Commerce, Texas.
60. Romo H.E., Conde J.A., Bhupathi D., **Ballestero R.P.** and González-García M. (2008): Deletion Mutant Analysis of BMRP, A Pro-Apoptotic Bcl-2 Binding Protein. Sixth

Annual TAMUS Pathways Research Symposium. Texas A&M University-Commerce, Commerce, Texas.

61. Conde J.A., Malladi S., Rodríguez M.A., Parsa K.V.L, **Ballestero R.P.** and González-García M. (2008): Functional Analysis of BMRP, a Pro-Apoptotic Protein that Binds to Bcl-2. Sixth Annual TAMUS Pathways Research Symposium. Texas A&M University-Commerce, Commerce, Texas.
62. Romo H.E., **Ballestero R.P.** and González-García M. (2008): Generation of BMRP Alanine Substitution Mutants and Studies of Their Interaction with Bcl-2. 13th Annual Ronald E. McNair Scholars Program Presentation. Texas A&M University-Kingsville, Kingsville, Texas.
63. Romo H.E., Conde J.A., Bhupathi D., Hinojosa M.E., **Ballestero R.P.** and González-García M. (2007): Localization and Functional Studies of Pro-apoptotic BMRP and its Deletion Mutants. Fifth Annual TAMUS Pathways Research Symposium. Tarleton State University, Stephenville, Texas.
64. Conde J.A., Parsa K.V.L., Bhupathi D., Anumula P., **Ballestero R.P.** and González-García M. (2007): Functional Analysis of BMRP, a Pro-apoptotic Protein that Binds to Bcl-2. Fifth Annual TAMUS Pathways Research Symposium. Tarleton State University, Stephenville, Texas.
65. Pathi S.S., Jose S., Govindaraju S., González-García M. and **Ballestero R.P.** (2007): zRICH, a Nerve Regeneration Related Protein from Zebrafish, Modulates Neurite Branching in Differentiating PC12 Cells. Fifth Annual TAMUS Pathways Research Symposium. Tarleton State University, Stephenville, Texas.
66. Romo H.E., **Ballestero R.P.** and González-García M. (2007): Molecular Engineering of pAcGFP1-N2-hp25ΔMISP13, pAcGFP1-C1-hp25ΔMISP13 and pAcGFP1-C1-hp25DΔ for Use in Subcellular Localization and Functional Studies of BMRP, a Human Protein that Induces Apoptosis. 12th Annual Ronald E. McNair Scholars Program Presentation. Texas A&M University-Kingsville, Kingsville, Texas.
67. Beran K.A., Halfacre J.A. Bashir S., **Perez-Ballestero R.** (2006): Investigation of the RICH protein network through computational analysis. 231st American Chemical Society National Meeting, Division of Chemical Education. Atlanta, Georgia.
68. Cantú J., Bhupathi D., Hinojosa M.E., Anumula P., Malladi S., Parsa K.V.L., Jasti M., **Ballestero R.P.** and González-García M. (2005): Studies of the role of BMRP in apoptosis and analysis of the Bcl-2/BMRP interaction. Third Annual TAMUS Pathways Research Symposium. Texas A&M University-Kingsville. Kingsville, Texas.
69. Govindaraju S., Jose S., Bhupathi D., Challa M., Chapa G.R., González-García M. and **Ballestero R.P.** (2005): Deletion mutagenesis analysis of zRICH, a nerve regeneration induced protein from zebrafish. Third Annual TAMUS Pathways Research Symposium. Texas A&M University-Kingsville. Kingsville, Texas.

70. Cantú J., Hinojosa M.E., Parsa, K.V.L., **Ballestero R.P.** and González-García M. (2005): Characterization of the role of BMRP in apoptosis and analysis of the Bcl-2/BMRP interaction. Bridges Program and SURP Research Symposium. University of Texas Medical Branch at Galveston. Galveston, Texas.
71. **Ballestero R.P.** (2005) Regeneration of the optic nerve in zebrafish: implication of the protein zRICH. Hospital Universitario de la Princesa, Madrid, Spain. (Invited seminar, hosted by Dr Luis del Peso Ovalle).
72. Shantidas K.M.J., Cantú J., Malladi S., Parsa K.V.L., **Ballestero R.P.** and González-García M. (2004): Identification of the Bcl-2 and BBP protein domains that are required for the Bcl-2/BBP interaction. Third Research Symposium of the American Chemical Society-South Texas Chapter. University of Texas-Pan American. Edinburg, Texas.
73. Govindaraju S., Challa M., Chapa G.R., González-García M. and **Ballestero R.P.** (2004): Study of the functional domains of zRICH, a nerve regeneration induced protein in zebrafish. Third Research Symposium of the American Chemical Society-South Texas Chapter. University of Texas-Pan American. Edinburg, Texas.
74. Shantidas K.M.J., Cantú J., Malladi S., Parsa K.V.L., **Ballestero R.P.** and González-García M. (2004): Identification of the Bcl-2 and BBP protein domains that are required for the Bcl-2/BBP interaction. Third Annual TAMUS Pathways Research Symposium. Texas A&M University-Corpus Christi, Corpus Christi, Texas.
75. Govindaraju S., Challa M., Chapa G.R., González-García M. and **Ballestero R.P.** (2004): Study of the functional domains of zRICH, a nerve regeneration induced protein in zebrafish. Second Annual TAMUS Pathways Research Symposium. Texas A&M University-Corpus Christi, Corpus Christi, Texas.
76. **Ballestero R.P.** (2004): Biochemical and functional studies on zRICH, a protein induced during optic nerve regeneration in zebrafish. Neuroscience Seminar Series. Texas A&M University-College Station. (Invited seminar, hosted by Dr. Mark Zoran)
77. Malladi S., Parsa, K.V.L., **Ballestero R.P.** and González-García M. (2003): Study of the domains of Bcl-2 and BBP proteins that are involved in the Bcl-2/BBP interaction. American Chemical Society-South Texas Chapter Meeting. Texas A&M University-Kingsville, Kingsville, Texas.
78. Govindaraju S., Challa M., Chapa G.R., González-García M. and **Ballestero R.P.** (2003): Analysis of the functional domains of zRICH, a protein induced during nerve regeneration in the zebrafish. American Chemical Society-South Texas Chapter Meeting. Texas A&M University-Kingsville, Kingsville, Texas.
79. Parsa, K.V.L., Malladi S., Jasti M., Chintharlapalli S.R., **Ballestero R.P.** and González-García M. (2003): Biochemical and functional characterization of BBP, a Bcl-2 binding protein. American Chemical Society-South Texas Chapter Meeting. Texas A&M University-Kingsville, Kingsville, Texas.

80. Parsa K.V.L., Malladi S., Jasti M., Chintharlapalli S.R., **Ballestero R.P.** and González-García M. (2003): Characterization of the Bcl-2 binding protein BBP. Eighteenth Lost Pines Conference on Cellular and Molecular Biology. University of Texas M.D. Anderson Cancer Center Science Park, Research Division. Smithville, Texas.
81. Challa M., Govindaraju S., Partida M., Chapa G.R., González-García M. and **Ballestero R.P.** (2003): Analysis of the domains of the nerve regeneration related protein zRICH. Eighteenth Lost Pines Conference on Cellular and Molecular Biology. University of Texas M.D. Anderson Cancer Center Science Park, Research Division. Smithville, Texas.
82. **Ballestero R.P.** (2003): The study of a protein associated with nerve regeneration of teleost fish. Collaborative Workshop between TAMUK and UTMB-Galveston. University of Texas Medical Branch at Galveston.
83. Challa M., Chapa G.R., González-García M. and **Ballestero R.P.** (2002): Functional characterization of the domains of the zebrafish RICH protein. Seventeenth Lost Pines Conference on Cellular and Molecular Biology. University of Texas M.D. Anderson Cancer Center Science Park, Research Division. Smithville, Texas.
84. Vancha A.R., González-García M. and **Ballestero R.P.** (2002): Promoter region analysis and characterization of the goldfish *rich70* gene structure. Seventeenth Lost Pines Conference on Cellular and Molecular Biology. University of Texas M.D. Anderson Cancer Center Science Park, Research Division. Smithville, Texas.
85. Jasti M., Chintharlapalli-Reddy S., **Ballestero R.P.** and González-García M. (2002) Functional and biochemical studies of BBP-1, a novel pro-apoptotic protein Seventeenth Lost Pines Conference on Cellular and Molecular Biology. University of Texas M.D. Anderson Cancer Center Science Park, Research Division. Smithville, Texas.
86. Malladi S., Parsa V.L.K., **Ballestero R.P.** and González-García M. (2002) Identification of domains required for heterodimerization of anti-apoptotic Bcl-2 to BBP-1, a novel pro-apoptotic protein. Seventeenth Lost Pines Conference on Cellular and Molecular Biology. University of Texas M.D. Anderson Cancer Center Science Park, Research Division. Smithville, Texas.
87. Estrada D., **Ballestero R.P.** and González-García M. (2002) Cloning and expression of recombinant hBcl-2 protein in *Escherichia coli*. Summer Undergraduate Research Internship, Ronald E. McNair Program. Texas A&M University-Kingsville, Kingsville, Texas.
88. Vancha A.R., González-García M**.** and **Ballestero R.P.** (2002) Characterization of the *rich* gene structure and promoter region. Fourth Annual President's Distinguished Student Research Seminar. Texas A&M University-Kingsville, Kingsville, Texas.
89. Challa M., Chapa G.R., González-García M. and **Ballestero R.P.** (2002) Characterization of the domains of ZRICH, a protein induced during optic nerve regeneration in zebrafish. Fourth Annual President's Distinguished Student Research Seminar. Texas A&M

University-Kingsville, Kingsville, Texas.

90. Chintharlapalli-Reddy S., Jasti M., Parsa V.L.K., **Ballestero R.P.** and González-García M. (2002) Identification and biochemical characterization of a novel protein involved in apoptosis. Fourth Annual President's Distinguished Student Research Seminar. Texas A&M University-Kingsville, Kingsville, Texas.
91. Chapa G.R., González-García M. and **Ballestero R.P.** (2002) A study of zRICH domains by biochemical studies with deletion mutants. 2nd Biennial RIMI/NIH Research Symposium. Morgan State University, Baltimore, Maryland.
92. Chintharlapalli-Reddy S., Jasti M., Parsa V.L.K., **Ballestero R.P.** and González-García M. (2002) Identification and biochemical characterization of a novel protein involved in apoptosis. 2nd Biennial RIMI/NIH Research Symposium. Morgan State University, Baltimore, Maryland.
93. Chapa G.R., González-García M. and **Ballestero R.P.** (2002) Enzymatic and functional analysis of zRICH domains. 105th Annual Meeting of the Texas Academy of Science, Texas A&M International University, Laredo, Texas.
94. Chintharlapalli-Reddy S., Jasti M., Parsa V.L.K., **Ballestero R.P.** and González-García M (2002) Functional Studies of BBP-1, a novel protein that binds to Bcl-2. 105th Annual Meeting of the Texas Academy of Science, Texas A&M International University, Laredo, Texas.
95. Chapa G.R., González-García M. and **Ballestero R.P.** (2001): Functional analysis of zRICH subdomains by PCR mutagenesis. National Meeting of the Society for the Advancement of Chicanos and Native Americans in the Sciences (SACNAS). Phoenix, Arizona.
96. Chintharlapalli-Reddy S., Jasti M., Parsa V.L.K., **Ballestero R.P.** and González-García M. (2001): Functional studies of BBP-1, a novel protein that binds to Bcl-2. American Chemical Society-South Texas Chapter Meeting. Texas A&M University-Kingsville, Kingsville, Texas.
97. Chapa G.R., González-García M. and **Ballestero R.P.** (2001): Analysis of the function of the zebrafish RICH protein subdomains by deletion mutagenesis. American Chemical Society-South Texas Chapter Meeting. Texas A&M University-Kingsville, Kingsville, Texas.
98. Chapa G.R., González-García M. and **Ballestero R.P.** (2001) Biochemical and functional characterization of zRICH subdomains by PCR mutagenesis. Third Annual President's Distinguished Student Research Seminar. Texas A&M University-Kingsville, Kingsville, Texas.
99. González MY, Chapa GR, González-García M. and **Ballestero R.P.** (2000) Levels of CNPase Activity in zRICH Mutant Proteins. Summer Undergraduate Research Internship, Ronald E. McNair Program. Texas A&M University-Kingsville, Kingsville, Texas.
100. Chapa G.R., González-García M. and **Ballestero R.P.** (2000) Characterization of the

catalytic domain of the zebrafish RICH protein. Second Annual President's Distinguished Student Research Seminar. Texas A&M University-Kingsville, Kingsville, Texas.

101. Galal-ElDeen A., McCoy W., **Ballestero R.P.** and González-García M. (2000) Characterization of BBP-1, a novel protein that binds to Bcl-2. Second Annual President's Distinguished Student Research Seminar. Texas A&M University-Kingsville, Kingsville, Texas.
102. Chapa G.R., González-García M**.** and **Ballestero R.P.** (2000) Characterization of the catalytic domain of the zebrafish RICH protein. 103rd Annual Meeting of the Texas Academy of Science. Texas A&M University-Kingsville, Kingsville, Texas.
103. Galal-ElDeen A., McCoy W., **Ballestero R.P.** and González-García M. (2000) Characterization of BBP-1, a novel protein that binds to Bcl-2. 103rd Annual Meeting of the Texas Academy of Science. Texas A&M University-Kingsville, Kingsville, Texas.
104. Chapa G.R., González-García M. and **Ballestero R.P.** (2000) Biochemical and Functional characterization of zRICH subdomains. 1st Annual RIMI/NIH Research Symposium. Spelman College, Atlanta, Georgia.
105. McCoy W., Galal-ElDeen A., **Ballestero R.P.** and González-García M. (2000) Identification and Characterization of a novel protein that binds to Bcl-2. 1st Annual RIMI/NIH Research Symposium. Spelman College, Atlanta, Georgia.
106. Luna I.G., Chapa G.R., González-García M. and **Ballestero R.P.**(1999) Study of zRICH protein using deletion techniques. Summer Undergraduate Research Internship, Ronald E. McNair Program. Texas A&M University-Kingsville, Kingsville, Texas.
107. **Ballestero R.P.**, Dybowski J.A., Uhler M.D. and Agranoff B.W. (1997) Isolation of cDNAs encoding the zebrafish protein zRICH, a non-mammalian 2',3'-cyclic-nucleotide 3'-phosphodiesterase induced in neurons during optic nerve regeneration. Journal of Neurochemistry. Vol. 69, supplement, p S141.
108. Uhler M.D., **Ballestero R.P.**, Dybowski J.A. and Agranoff B.W. (1996). Isolation of a partial cDNA encoding the zebrafish protein zRICH and its expression after optic nerve crush. Soc. Neurosci. Abstr. Vol. 22, Part 2, p.1020.
109. **Ballestero R.P.**, Wilmot G.R., Agranoff B.W. and Uhler M.D (1996). gRICH68 and gRICH70 are goldfish 2',3'-cyclic-nucleotide 3'-phosphodiesterases upregulated during optic nerve regeneration. Soc. Neurosci. Abstr. Vol. 22, Part 2, p.1020.
110. **Ballestero, R.P.**, Wilmot G.R., Agranoff B.W. and Uhler M.D (1995). Isolation of cDNA clones encoding RICH: A protein induced during goldfish optic nerve regeneration with homology to mammalian 2',3'-cyclic-nucleotide 3'-phosphodiesterases. Society for Neuroscience 25th Annual Meeting, San Diego. Abstract 130-2.
111. **Ballestero R.P.,** Esteve P., Perona R., Jiménez B. and Lacal J.C. (1991) Biological function of *Aplysia californica rho* gene. NATO Advanced Workshops. "International Workshop: The Superfamily of ras–Related Genes". Crete, Greece.