

CURRICULUM VITAE

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CONTACT INFORMATION:

Position: Associate Professor

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EDUCATION:

November 2006- November 2008: Postdoctoral studies (visiting researcher) “phylogeography of bottlenose dolphins (*Tursiops truncatus*) from the Great Caribbean. Pacific Biosystematics Laboratory, University of Waikato, Hamilton, New Zealand.

May 2007: PhD, Ecology and Evolution Group, School of Biological Sciences, The University of Auckland, Auckland, New Zealand.

September 1999: Biologist, BSc. Universidad de los Andes, Bogotá, Colombia.

September 1998: Microbiologist, BSc. Universidad de los Andes, Bogotá, Colombia.

AWARDS & HONORS

August 2007: Society of Marine Mammalogy, recipient of the F.G. Wood Memorial Scholarship for the best student manuscript published in *Marine Mammal Science* (journal).

April 2007: Nomination for the University of Auckland Best Doctoral Thesis Award (“Genetic characterization of South American riverine and coastal dolphins *Sotalia*”). University of Auckland, Auckland, New Zealand.

April 2006: School of Biological Sciences “Contestable Travel Grant” to assist to

	Workshop on Research and Conservation of the genus <i>Sotalia</i> . Armação dos Búzios, Rio de Janeiro, Brazil, June 19-23, 2006.
October 2005	Student Travel grant from the Society of Marine Mammalogy (USA) to participate on the 16 th Biennial Conference on the Biology of Marine Mammals, San Diego, California, December 12-16, 2005.
April 2005	University of Auckland Graduate Research Fund Grant-Travel grant to assist to the 16 th Biennial Conference on the Biology of Marine Mammals, San Diego, California, December 12-16, 2005.
April 2005	School of Biological Sciences “Contestable Travel Grant” to assist to the Molecular Biology and Evolution International Conference, Auckland, June 19-23, 2005
April 2005	University of Auckland Graduate Research Fund Grant to develop research capability and international scientific exchange
June 2004	“Best 2 nd year PhD student talk” award, School of Biological Sciences, The University of Auckland.
November 2003	Travel Grant from Cetacean Society International to assist to the 15 th Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina, USA, December 13-19, 2003
September 2003	Student Travel grant from the Society of Marine Mammalogy (USA) to participate on the 15 th Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina, USA, December 13-19, 2003
July 2002	Earthwatch Institute Center for Field Research. Three year grant to develop the project “Dolphins of Costa Rica”
June 2002	Scholarship, Convocatoria Nacional para Estudios de Posgrado en el Exterior, 2002. Instituto Colombiano para el Desarrollo de la Ciencia y la Tecnología, Francisco José de Caldas-Colciencias.
April 2002	Partial Scholarship to participate in the course Recent Advances In Conservation Genetics , held by the American Genetics Association in August 2002.
February 2002	The University of Auckland International Fees Bursary (Second Round 2002), University of Auckland, Auckland, New Zealand.

FIELD OF EXPERTISE

My research interest has been focused on the use of molecular techniques to describe the population structure, conservation genetics and evolutionary processes of different groups of aquatic vertebrates. The main aim of this research is to get new sources of information to improve our knowledge of several species and improve their management programs. I have been working on several species, as humpback whales, sharks, manatees, bottlenose dolphins, Amazon River dolphins and the South American coastal and riverine dolphins, the tucuxi and costero.

I lectured in several national and international courses on aquatic mammals and I have participated in a number of specialized conferences at international level. I have been visiting researcher at the University of Auckland (February 2000), the University of California, Berkeley (May 2000), Edith Cowen University, Perth, Western Australia (June 2003) and Universidad Federal de Belo Horizonte, Brazil (October 2004). I completed my Ph. D. in Ecology and Evolution at the University of Auckland in 2007, conducted postdoctoral studies from August 2006 to November 2008 at The University of Waikato in Hamilton, New Zealand, and started as Assistant Professor at Universidad de los Andes in January 2009. I was promoted to Associate Professor in October 2012. One of the strengths of my research is the collaborative bonds with leading NGO's working on conservation of Colombia's aquatic biological resources, including Fundación Omacha, Fundación Yubarta, Fundación Marviva as well as with Governmental Institutions such as Instituto Alexander Von Humboldt and other organizations in the Caribbean (Caribbean Stranding Network, Puerto Rico). I am a member of the Latin American Conservation Genetics Network (Red Latinoamericana de Genética para la Conservación-ReGeneC) and the Society for Marine Mammalogy. I have been advisor of a number of students on their B. Sc., M. Sc. and Ph. D. thesis research.

PUBLICATIONS (Peer-reviewed scientific journals)

Téllez, R., Mignucci-Giannoni, A. A. and **S. Caballero**. 2014. Initial description of short-finned pilot whale (*Globicephala macrorhynchus*) genetic diversity from the Caribbean. *Biochemical Systematics and Ecology*, 56: 196-201.

Salinas, C., Cubillos, J. C., Gómez, R., Trujillo, F. and **S. Caballero**. 2014. "Pig in a poke (gato por liebre)"the mota (*Calophysus macropterus*) fishery, molecular evidence of commercialization in Colombia and Toxicological analyses. *EcoHealth*, DOI: 10.1007/s10393-013-0893-8

Ahrens, M. J., Shipway, R., **Caballero, S.**, Moncaleano-Niño, A. M., Luna-Acosta, A., Casseres-Ruiz, S., 2013. Confirmación molecular de tres especies de bivalvos xilótrofos (Familia Terenidae) en las bahías de Cartagena y Baracoas, mar Caribe, Colombia. *Mutis* 3(2):6-12.

Caballero S., Santos, M. C. O., Sanches, A. and A. A. Mignucci-Giannoni. 2013. Initial description of the phylogeography, population structure and genetic diversity of Atlantic spotted dolphins from Brazil and the Caribbean, inferred from analyses of mitochondrial and nuclear DNA. *Biochemical Systematics and Ecology*, 48: 263-270.

Olivares, A. M., Hrbek, T., Escobar, M. D. and **S. Caballero**. 2013. Population structure of the black arowana (*Osteoglossum ferreirai*) in Brazil and Colombia: implications for its management. *Conservation genetics*, DOI 10.1007/s10592-013-0463-1.

Satizábal, P., Mignucci-Giannoni, A., Duchene, S., Caicedo-Herrera, D., Perea-Sicchar, C. M., García-Dávila, C. R., Trujillo, F and **S. Caballero**. 2012. Phylogeography and sex-biased dispersal across riverine manatee populations (*Trichechus inunguis* and *Trichechus manatus*) in South America. *PLoSOne*, 7(12) e52468

Félix, F., **Caballero, S.** and C. Olavarría. 2012. Genetic diversity and population of humpback whales (*Megaptera novaeangliae*) from Ecuador based on mitochondrial DNA analyses. *Journal of Cetacean Research and Management*, 12: 71-77.

Félix, F., Palacios, D., Salazar, S. K. **Caballero, S.**, Haase B. and J. Falconi. 2011. The 2005 Galápagos humpback whale expedition: a first attempt to assess and characterize the population in the archipelago. *Journal of Cetacean Research and Management*, Special Issue 3: 291-299.

Caballero, S., Cardeñosa, D., Soler, G. and J. Hyde. 2011. Application of multiplex PCR approaches for shark molecular identification: feasibility and applications for fisheries management and conservation in the Eastern Tropical Pacific. *Molecular Ecology Resources*. doi: 10.1111/j.1755-0998.2011.03089.x

Duchene, S., Archer, F. I., Vilstrup, J., **Caballero, S.** and P. A. Morin. 2011. Mitogenome Phylogenetics: The Impact of Using Single Regions and Partitioning Schemes on Topology, Substitution Rate and Divergence Time Estimation. *PLoS One*, 6(11): e27138

Caballero, S., Islas-Villanueva, V., Tezanos-Pinto, G., Duchene, S., Delgado-Estrella, A., Sánchez-Okrucky, R. and A. A. Mignucci-Gianonni. 2011 Phylogeography, genetic diversity and population structure of common bottlenose dolphins (*Tursiops truncatus*) in the Wider Caribbean inferred from analyses of mitochondrial DNA control region sequences and microsatellite loci: conservation and management implications. *Animal Conservation*. doi:10.1111/j.1469-1795.2011.00493.x

Chen, L., **Caballero, S.**, Zhou, K. and G. Yang. 2010. Molecular phylogenetics and population structure of *Sousa chinensis* in Chinese waters inferred from mitochondrial control region sequences. *Biochemical Systematics and Ecology*, 38: 897-905.

Caballero, S. and C. S. Baker. 2010. Captive-born intergeneric hybrid of a Guiana and bottlenose dolphin. *Zoo Biology*, 29: 647-657.

Caballero, S., Heimeier, D., Trujillo, F., Vianna, J. A., Barrios-Garrido, H., Montiel, M. G., Beltrán-Pedrerros, S., Marmontel, M., Santos, M. C. O., Rossi, M. R., Santos, F. R. and C. S. Baker. 2010. Initial description of Major Histocompatibility Complex variation at two Class II loci (DQA-DQB) in *Sotalia fluviatilis* and *Sotalia guianensis*. *Latin American Journal of Aquatic Mammals*, 8 (1-2): 81-95.

Caballero, S., Trujillo, F., Vianna, J. A., Barrios-Garrido, H., Montiel, M. G., Beltrán-Pedrerros, S., Marmontel, M., Santos, M. C. O., Rossi, M. R., Santos, F. R. and C. S. Baker. 2010. Mitochondrial DNA diversity, differentiation and Phylogeography of the South American riverine and coastal dolphins *Sotalia fluviatilis* and *Sotalia guianensis*. *Latin American Journal of Aquatic Mammals*. 8(1-2): 69-79.

Gómez-Salazar, C., Portocarrero-Aya, M., Trujillo, F., **Caballero, S.**, Bolaños-Jiménez, J., Utreras, V., McGuire, T., Ferrer-Pérez, A., Pool, M. and E. Aliaga-Rossel. 2010. Update on the freshwater distribution of *Sotalia* in Colombia, Ecuador, Perú, Venezuela and Suriname. *Latin American Journal of Aquatic Mammals*. 8(1-2): 171-178.

Santos, M. C. O., Olavarria, O., Borobia, M., **Caballero, S.**, Secchi, E. R., Siciliano, S. and D. M. Palacios. 2010. A tale of two dolphins: introduction to the special volume on the biology and conservation of neotropical dolphins of the genus *Sotalia*. *Latin American Journal of Aquatic Mammals*. 8(1-2): 9-23.

Flores, P. A. C., Bazzalo, M., **Caballero, S.**, Santos, M. C. O., Rossi-Santos, M. R., Trujillo, F., Bolaños-Jimenez, J., Cremer, M. J., May-Collado, L. J., Silva, F. J. L., Montiel-Villalobos, M. G., Azevedo, A. F., Meirelles, A. C. O., Flach, L., Barrios-Garrido, H., Simoes-Lopes, S., Cunha, H. A. and K. Van Waerebeek. 2010. Proposed English common name for the neotropical dolphin *Sotalia guianensis* (P-J. Van Benedén, 1864). *Latin American Journal of Aquatic Mammals*. 8(1-2): 179-181.

Solé-Cava, A. M., **Caballero, S.**, Bonvicino, C. R., Sholl, T. G. C., Moreno, I. B. and P. A. C. Flores. 2010. Report of the working group on taxonomy and genetics. *Latin American Journal of Aquatic Mammals*. 8(1-2): 25-29.

Tezanos-Pinto, G., Baker, C. S., Russell, K., Martien, K., Baird, R. W., Hutt, A., Stone G., Mignucci-Gianonni, A. A., **Caballero, S.**, Endo, T., Lavery, S., Oremus, M., Olavarria, C. and C. Garrigue. 2009. A worldwide

perspective of the population structure and genetic diversity of bottlenose dolphins (*Tursiops truncatus*) in New Zealand. *Journal of Heredity*, 100: 11-24.

Caballero, S., Jackson, J., Mignucci-Giannoni, A. A., Barrios-Garrido, H., Beltrán-Pedrerros, S., Montiel-Villalobos, M. G., Robertson, K. M. and C. S. Baker. 2008. Molecular systematics of the South American dolphins *Sotalia*: Sister taxa determination and phylogenetic relationship, with insights into a multi-locus phylogeny of the Delphinidae. *Molecular Phylogenetics and Evolution*, 46: 252-268.

Caballero, S., Trujillo, F., Vianna, J.A., Barrios-Garrido, H., Montiel, M.G., Beltrán-Pedrerros, S., Marmontel, M., Santos, M.C., Rossi-Santos, M. Santos, F.R. and C.S. Baker. 2007. Taxonomic status of the genus *Sotalia*: species level ranking for “tucuxi” (*Sotalia fluviatilis*) and “costero” dolphins (*Sotalia guianensis*). *Marine Mammal Science*, 23: 358-386.

Olavarría, C., Baker, C. S., Garrigue, C., Poole, M., Hauser, **Caballero, S.**, Flórez-González, L., Brasseur, M., Bannister, J., Capella J., Clapham, P., Dodemont, R., Donoghue, M., Jenner, C., Jenner, M. N., Moro, D., Oremus, M., Paton, D., Rosenbaum, H., & K. Russell. 2007. Population structure of South Pacific humpback whales and the origin of the eastern Polynesian breeding grounds. *Marine Ecology Progress Series*, 330: 257-268.

Vianna, J. A., Bonde, R.K., **Caballero, S.**, Giraldo, J.P., Lima, R.P., Clark, A.M., Marmontel, M., Morales-Vela, B., Souza, M.J., Parr, L., Rodríguez-López, M. A., Mignucci-Giannoni, A.A., Powel, J. and F. R. Santos. 2006. Phylogeography, phylogeny and hybridization in trichechid sirenians: implications on manatee conservation. *Molecular Ecology*, 15: 433-447.

Garrigue, C., Aguayo, A., Amante-Helweg, V. L. U., Baker, C. S., **Caballero, S.**, Clapham, P., Constantine, R., Denkinger, J., Donoghue, M., Flórez-González, L., Greaves, J., Hauser, N., Olavarría, C., Pairoa, C., Peckham, H. & Poole, M. 2002. Movements of humpback whales in Oceania, South Pacific. *Journal of Cetacean Research and Management*, 4: 255–260.

Caballero, S., Hamilton, H., Jaramillo, C., Capella, J., Flórez-González, L., Olavarría, C., Rosenbaum, H., Guhl, F., C. S. Baker. 2001. Genetic Characterization of the Colombian Pacific Coast humpback whale population using RAPD and mitochondrial DNA sequences. *Memoirs of the Queensland Museum* 47: 459-464.

Hamilton, H., **Caballero, S.**, Collins, A., Brownell, R. 2001. Evolution of river dolphins. *Proceedings of the Royal Society of London, Series B*, 268: 549-556.

BOOK CHAPTERS

Caballero, S., Renza, M. and M. C. Arteaga. *Caracterización Genética*. Pp. 124-133. Trujillo, F. and M. Superina (Eds). *Armadillos de los Llanos Orientales*. 2013. Fundación Omacha, ODL, Corporinoquia, Cormacarena, Bioparque Los Ocarros, Corpometa. Bogotá, D. C. Colombia.

García-Villamil, D., Lasso, C. A. and **S. Caballero**. Aproximación a la filogenia molecular de la familia Potamotrygonidae en Colombia y Venezuela: aplicaciones en sistemática y conservación. Capítulo 6.1. Pp. 283-295. Lasso, C. A., R. de S. Rosa, P. Sánchez-Duarte, M. A. Morales-Betancourt and E. Agudelo-Córdoba (Eds). IX. Rayas de agua dulce (Potamotrygonidae) de Suramérica. Parte I. Colombia, Venezuela, Ecuador, Perú, Brasil, Guyana, Surinam y Guayana Francesa: diversidad, bioecología, uso y conservación. 2013. Serie Editorial Recursos Hidrobiológicos y Pesqueros Continentales de Colombia. Instituto de Investigación de los Recursos Biológicos Alexander von Humboldt (IAvH). Bogotá, D. C., Colombia.

Caballero, S. and M. Ruiz-García. *Genética de la conservación, filogeografía y consideraciones taxonómicas de los mamíferos acuáticos en Colombia*. F. Trujillo, A. Gärtner, D. Caicedo and M. C. Diazgranados (Eds).

Diagnóstico del estado de conocimiento y conservación de los mamíferos acuáticos de Colombia. 2013. Ministerio de Ambiente y Desarrollo Sostenible, Fundación Omacha, Conservación Internacional and WWF. Bogotá, Colombia.

Avila, I. C., García, C., Palacios, D. M and **S. Caballero**. Mamíferos Acuáticos de la region del Pacífico colombiano. F. Trujillo, A. Gärtner, D. Caicedo and M. C. Diazgranados (Eds). Diagnóstico del estado de conocimiento y conservación de los mamíferos acuáticos de Colombia. 2013. Ministerio de Ambiente y Desarrollo Sostenible, Fundación Omacha, Conservación Internacional and WWF. Bogotá, Colombia.

Trujillo, F., Diazgranados, M. C., Gómez-Salazar, C., Portocarrero, M., Caicedo, D., **Caballero, S.** and M. Morales. Mamíferos Acuáticos de la region Amazonía y Orinoquía. F. Trujillo, A. Gärtner, D. Caicedo and M. C. Diazgranados (Eds). Diagnóstico del estado de conocimiento y conservación de los mamíferos acuáticos de Colombia. 2013. Ministerio de Ambiente y Desarrollo Sostenible, Fundación Omacha, Conservación Internacional and WWF. Bogotá, Colombia.

Parr, L., Santos, F. R., Waycott, M., Vianna J. A., McDonald, B., **Caballero, S.** and, M. J. de Souza Lopes. Sirenian Genetics and Demography. E. Hines, J. E. Reynolds III, L. Aragonés, A. Mignucci-Giannoni, and M. Marmontel (Eds). *Sirenian Conservation: Issues and Strategies in Developing Countries*. 2012. Florida University Press.

Portocarrero-Aya, M., Ferrer, A., Lasso, C. A., Ruiz-García, M., Bolaños-Jiménez, J. and **S. Caballero**. Status, distribution and conservation of the river dolphins *Inia geoffrensis* and *Sotalia* spp. In Venezuela. F. Trujillo, E. Crespo, P. van Damme, and J. S. Usma (Eds.), *The Action Plan for South American River Dolphin, 2010-2020*. 2010. WWF, Fundación Omacha, WCS, WDCS, Solamac.

Trujillo, F., Portocarrero-Aya, M., Gomez-Salazar, C., Diazgranados, M. C, Castellanos-Mora, L., Ruiz-García, M. and **S. Caballero**. Status and conservation of river dolphins *Inia geoffrensis* and *Sotalia fluviatilis* in the Amazon and Orinoco River Basins in Colombia. F. Trujillo, E. Crespo, P. van Damme, and J. S. Usma (Eds.), *The Action Plan for South American River Dolphin, 2010-2020*. 2010. WWF, Fundación Omacha, WCS, WDCS, Solamac.

Caballero, S., Trujillo, F., Ruiz-García, M., Vianna, J. A., Marmontel, M., Santos, F. R. and C. S. Baker. Population structure and phylogeography of tucuxi dolphins (*Sotalia fluviatilis*). M. Ruiz-García, and J. Shostell (Eds.), *Biology, Evolution, and Conservation of River Dolphins Within South America and Asia: Unknown Dolphins In Danger*. 2009. New York, New York: Nova Science Publishers Inc.

Ruiz-García, M., **Caballero, S.**, Martínez-Agüero, M. and J. M. Shostell. 2008. Molecular differentiation among *Inia geoffrensis* and *Inia boliviensis* (Iniidae, Cetacea) by means of nuclear intron sequences. Koven, T. K. (Ed). Population Genetics Research Progress. Nova Scotia Science Publisher Inc.

Caballero, S. and J. P. Giraldo. 2005. Filogeografía del manatí antillano (*Trichechus manatus*) y del manatí amazónico (*Trichechus inunguis*) en Colombia. Caicedo-Herrera, D., Trujillo, F., Rodríguez, C. L. and M. Rivera (Eds). Programa Nacional de Manejo y Conservación de Manatíes en Colombia. Ministerio de Ambiente, Vivienda y Desarrollo Territorial y Fundación Omacha, Bogotá, Colombia.

REPORTS

Barragán-Barrera, D., May-Collado, L. J., Quiñones-Lebrón, S. and S. Caballero. 2013. Population at risk: low genetic diversity in bottlenose dolphins of Bocas del Toro, Panama. Report to the Scientific Committee of the International Whaling Commission. SC/65a/SM15.

Salinas, C., Cubillos, J. C., Gómez, R., Trujillo, F. and **S. Caballero**. 2013. The “mota” (*Calophysus macropterus*) fishery as the main threat for river dolphins in the Amazon: molecular evidence of commercialization and toxicological analyses. Report to the Scientific Committee of the International Whaling Commission. SC/65a/SM02.

Félix, F., **Caballero, S.** and C. Olavarría. 2009. Genetic diversity and population structure of humpback whales (*Megaptera novaeangliae*) from Ecuador based on mitochondrial DNA analyses. Update of SC/59/SH11. Report to the Scientific Committee of the International Whaling Commission. SC/61/SH1.

Félix, F., **Caballero, S.** and C. Olavarría. 2007. A preliminary assessment of the genetic diversity in humpback whales (*Megaptera novaeangliae*) from Ecuador and population differentiation with other southern hemisphere breeding grounds and feeding areas. Report to the Scientific Committee of the International Whaling Commission. SC/59/SH11.

Caballero, S., Barrios-Garrido, H., Beltrán-Pedrerros, S., Montiel, M.G. and C.S. Baker. 2003. Mitochondrial DNA diversity and differentiation among South American river and coastal dolphins *Sotalia* sp. Report to the Scientific Committee of the International Whaling Commission. SC/55/SM13.

Dalebout, M.L., Lavery, S., Baker, C.S., **Caballero, S.**, Cipriano, F., Ewing, G., Goode, M., LeDuc, R.G., Lento, G.M., Pichler, F.B., Rodrigo, A.G., Rosel, P.E., Ross, H.A. and D.Steel. 2003. www.DNA-surveillance Vs.3.1: progress with a validated and comprehensive DNA database for species identification of whales, dolphins and porpoises. Report to the Scientific Committee of the International Whaling Commission. SC/55/SD8

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Caballero, S., Hamilton, H., Flórez-González, L., Capella, J., Olavarría, C., Rosenbaum, H.C and C.S. Baker. 2000 Stock identity and diversity of humpback whale mitochondrial DNA lineages on the Colombian winter breeding grounds. Report to the Scientific Committee of the International Whaling Commission. SC/52IA14.

Olavarría, C., Baker, C.S., Medrano, L., Aguayo, A., **Caballero, S.**, Flórez-González, L., Capella, J., Rosenbaum, H.C., Garrigue, C., Greaves, J., Bannister, J.L., Jenner, M and C. Jenner. 2000. Stock Identity of Antarctic Peninsula Humpback Whales Inferred from mtDNA variation. Report to the Scientific Committee of the International Whaling Commission. SC/52IA15

Garrigue, C., Aguayo, A., Baker, C.S., **Caballero, S.**, Clapham, P., Constantine, R., Denkinger, J., Donoghue, M., Flórez-González, L., Greaves, J., Hauser, N., Olavarría, C., Pairoa, C., Peckham, H and M. Poole. 2000. Movements of humpback whales in Oceania, South Pacific. Report to the Scientific Committee of the International Whaling Commission. SC/52/CAWS3.

CONFERENCES & SYMPOSIUM PRESENTATIONS

Identificación de dos unidades evolutivas significativas (ESU) para el tiburón zorro pelágico *Alopias pelagicus* en el Océano Pacífico: evidencia a partir de análisis de ADN mitocondrial y microsatélites. Cardeñosa, D., Hyde, J. and **S. Caballero**. Primer Congreso Latinoamericano de Genética para la Conservación, Estado Vargas, Venezuela. May 5-9, 2014

Análisis molecular de la estructura genética de poblaciones de *Ischnura capreolus* e *Ischnura cyane* (Odonata: Coenagrionidae) y su posible morfotipo intermedio en Colombia. Velásquez-Vélez, M. I., Realpe, E.,

Saldamando-Benjumea, C. I. and **S. Caballero**. Primer Congreso Latinoamericano de Genética para la Conservación, Estado Vargas, Venezuela. May 5-9, 2014.

Spatial temporal analyses of Eastern Pacific green turtle (*Chelonia mydas/Chelonia agasizii*) foraging as mixed stock in Gorgona NNP, Colombian Pacific Ocean. Correa-Cárdenas, C. A., Amorocho, D. F. and **S. Caballero**. 2014 International Sea Turtle Symposium, New Orleans, Louisiana, USA. April 14-18, 2014.

Phylogeography and population structure of *Sotalia guianensis* and *Sotalia fluviatilis*: initial evidence of male-biased dispersal. **Caballero, S.**, Rodríguez, S., Hollatz, C., Trujillo, F. and C. S. Baker. 20th Biennial Conference of the Biology of Marine Mammals, Dunedin, New Zealand. December 8-13, 2013

Population at risk: low genetic diversity in bottlenose dolphins of Bocas del Toro, Panamá. Barragán-Barrera, D., May-Collado, L. J., Quiñones-Lebrón, S. G. and **S. Caballero**. 20th Biennial Conference of the Biology of Marine Mammals, Dunedin, New Zealand. December 8-13, 2013

First report of two Terenid bivalve species in mangrove roots from Cartagena Bay and Barbacoas Bay, Caribbean Sea, Colombia. Ahrens, M. J., Niño, A. M., Luna, A., Ruiz, S. and **S. Caballero**. ESF Exploratory Workshop on Marine Woodborers: new frontiers for European waters, Venice, Italy, April 14-16, 2013.

Genetic differentiation between humpback whales (*Megaptera novaeangliae*) from Atlantic and Pacific breeding grounds of South America. Cypriano-Souza A. L., Engel, M. H., **Caballero, S.**, Flórez-González, L., Olavarría, C., Capella, J., Steel, D., Baker, C. S. and Bonatto, S. L. 15^a Reunión de Trabajo de Expertos en Mamíferos Acuáticos de América del Sur – 9^o Congreso SOLAMAC. Puerto Madryn, Argentina. September 16 – 20, 2012.

Efectos a largo plazo del turismo de observación de delfines nariz de botella (*Tursiops truncatus*) en Bocas del Toro, Panamá. Barragán-Barrera, Dalia C., Quiñones-Lebrón, S., Palacios-Alfaro, D., **Caballero, S.** and L. May-Collado. 15^a Reunión de Trabajo de Expertos en Mamíferos Acuáticos de América del Sur – 9^o Congreso SOLAMAC. Puerto Madryn, Argentina. September 16 – 20, 2012.

Sex-biased dispersal across riverine manatee populations (*Trichechus inunguis* and *Trichechus manatus*) in South America. Satizábal, P., Mignucci-Giannoni, A. A., Duchene, S., Caicedo-Herrera, D., Perea-Sicchar, C. M., García-Dávila, C. R., Trujillo, F. and **S. Caballero**. 15^a Reunión de Trabajo de Expertos en Mamíferos Acuáticos de América del Sur – 9^o Congreso SOLAMAC. Puerto Madryn, Argentina. September 16 – 20, 2012.

Phylogeography and population structure of the black arowana (*Osteoglossum ferreirai*) in Brazil and Colombia: implications for its management. Olivares, A. M. and **S. Caballero**. Annual Meeting of the Ecological Genetic group of the UK, Edimburg, Scotland, April 10-12, 2012.

Mitogenome phylogenetics: variation in topologies, date estimation, and mutation rates among analysis partitions. Duchêne, S., Archer, Frederick, H., Vilstrup, J., **Caballero, S.** and P. Morin. 19th Biennial Conference of the Biology of Marine Mammals, Tampa, FL, U. S. A. November 26, December 2, 2011.

The “mota” (*Calophrysus macropterus*) fishery as the main threat for river dolphins in the Amazon, new molecular evidence and toxicological analysis. Salinas, C., Cubillos, J. C., Gómez, R., Trujillo, F. and **S. Caballero**. 19th Biennial Conference of the Biology of Marine Mammals, Tampa, FL, U. S. A. November 26, December 2, 2011.

Combining genetics and acoustics as a tool to define management units of West Indian and Amazonian manatees. Satizábal, P., Mignucci-Giannoni, A., Caicedo-Herrera, D., Self-Sullivan, C., Perea-Sicchar, C. M., García-Dávila, C. R., Trujillo, F., Alicea-Pou, J. A. and **S. Caballero**. 19th Biennial Conference of the Biology of Marine Mammals, Tampa, FL, U. S. A. November 26, December 2, 2011.

Risk analysis of Mekong River Dolphin Stressors. Dove, V., Robertson, I., Warren, K., Holyoake, C., **Caballero S.** and F. Trujillo. Second International Conference on Marine Mammal Protected Areas, Fort-de-France, Martinique, November 7-11, 2011.

Salinas, C., **Caballero, S.** and F. Trujillo. Evaluación de la comercialización de pez mota *Calophysus macropterus* (Siluriformes: Pimelodidae) en los mercados de Colombia: una aproximación desde la biología molecular. XI Congreso Colombiano de Ictiología y II Encuentro Suramericano de Ictiólogos, Ibagué, Colombia, May 8-13, 2011.

García-Villamil, D. A., Lasso, C. and **S. Caballero**. Sistemática molecular de las rayas de agua dulce (Rajiformes: Potamotrygonidae) en la cuenca del Orinoco, Magdalena, Caribe (Atrato) y Maracaibo (Catatumbo). XI Congreso Colombiano de Ictiología y II Encuentro Suramericano de Ictiólogos, Ibagué, Colombia, May 8-13, 2011.

Caballero, S. Ecología molecular como herramienta en procesos de conservación de mamíferos acuáticos en Colombia. III Congreso Colombiano de Zoología, Medellín, Colombia, November 21-26, 2010.

Olivares, A. M., and **Caballero, S.** Determinación de la diversidad genética de la arawana azul (*Osteoglossum ferreirai*) para su manejo y conservación en la Amazonía Colombiana. III Congreso Colombiano de Zoología, Medellín, Colombia, November 21-26, 2010.

García-Villamil, D. A., and **Caballero, S.** Identificación molecular de especies de rayas del género *Potamotrygon* spp en el mercado ornamental de peces en Colombia. III Congreso Colombiano de Zoología, Medellín, Colombia, November 21-26, 2010

Correa, C. A., **Caballero, S.** and Trujillo, F. Diversidad Genética e Hipótesis de Estructura Poblacional para la Nutria Gigante (*Pteronura brasiliensis*) entre el Orinoco y el Amazonas. XIV Reunión de Trabajo de Especialistas en Mamíferos Acuáticos de América del Sur / 8o Congreso SOLAMAC. Florianópolis, Brazil, October 24-28, 2010.

Beltrán, N., **Caballero, S.**, Caicedo, D. and Trujillo, F. Estatus Taxonómico y Estructura Poblacional de la Nutria Neotropical (*Lontra longicaudis*) en Colombia. XIV Reunión de Trabajo de Especialistas en Mamíferos Acuáticos de América del Sur / 8o Congreso SOLAMAC. Florianópolis, Brazil, October 24-28, 2010.

Rodríguez-Arévalo, K., Matteo, M., Mantero, P., Loureiro, J., Boccio, J., Zubillaga, M., Cremaschi, G., Catalano, M., **Caballero, S.** and Goldman, C. G. Genes putativos de virulencia en *Helicobacter* spp. de mamíferos marinos. XII Congreso Argentino de Microbiología, October 17-20, Buenos Aires, Argentina, 2010.

Vianna, J.A., Ayerdi, P.R., Medina-Vogel, G., Santos, F., **Caballero, S.**, Mangel J.C., Zeballos, H., Apaza, M., Olavarría, C., Sielfeld, W., Chehébar, C., Faugeron, S. Historia evolutiva y genética de la conservación de nutrias sudamericanas (Evolutionary History and Conservation genetics of South American otters). XIV Congreso Latinoamericano de Genética, Viña del Mar, Chile, October 1-5, 2010.

Caballero, S., Prada, D. F., Cardeñosa, D., Bessudo, S. and G. Soler. Identificación Molecular de tiburones del Pacífico Colombiano. II Encuentro Colombiano sobre Condrictios, Cali, Colombia, August 16-20, 2010.

Bessudo, S., **Caballero, S.**, Cardeñosa, D. And G. Soler. Tiburón Solrayo, *Odontaspis ferox* (Lamniformes: Odontaspidae), del Santuario de Flora y Fauna Malpelo, Colombia: presencia en la isla, identificación molecular y perfiles de profundidad. II Encuentro Colombiano sobre Condrictios, Cali, Colombia, August 16-20, 2010.

D. Cardeñosa, Stum, K., **Caballero, S.**, de Tezanos-Pinto, G., DiBattista, J. And S. Gruber. Effects of habitat loss on the survival and growth rates of juvenile lemon sharks (*Negaprion brevirostris*) in Bimini, Bahamas. II Encuentro Colombiano sobre Condrictios, Cali, Colombia, August 16-20, 2010.

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Caballero, S., Steel, D., Flórez-González, L., Capella, Olavarría, C., Capella, J., Rosenbaum, H and C. S. Baker. Powerful tools: fine scale population patterns of humpback whales off the coast of Colombia revealed by long-term genetic and ecological analyses. 18th Biennial Conference on the Biology of Marine Mammals. Quebec City, Canada, October 12-16, 2009.

Duchene, S and **S. Caballero**. Conquering the Amazon: Comparative phylogeography of the genus *Sotalia* and the oscillating connectivity hipótesis. 18th Biennial Conference on the Biology of Marine Mammals. Quebec City, Canada, October 12-16, 2009.

Satizábal, P., Caicedo-Herrera, D., Mignucci-Giannoni, A. A., Trujillo, F and **S. Caballero**. Male gene flow hypothesis and population structure in Colombian West Indian manatees (*Trichechus manatus*) and Amazonian manatees (*Trichechus inunguis*). 18th Biennial Conference on the Biology of Marine Mammals. Quebec City, Canada, October 12-16, 2009.

Téllez, R., **Caballero, S** and A. A. Mignucci-Giannoni. Short-finned pilot whale (*Globicephala macrorhynchus*) mitochondrial genetic diversity in the Caribbean. 18th Biennial Conference on the Biology of Marine Mammals. Quebec City, Canada, October 12-16, 2009.

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Caballero, S., Trujillo, F., Vianna, J.A., Barrios, H., Montiel, M.G., Beltrán, S., Marmontel, M., Santos, M.C., Rossi-Santos, M. Santos, F.R. and C.S. Baker. Phylogeography of the South American riverine and coastal dolphins *Sotalia fluviatilis* and *Sotalia guianensis*. Workshop on Research and Conservation of the Genus *Sotalia*. Armação dos Búzios, Rio de Janeiro, Brazil, June 19-23, 2006.

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Félix, F., Palacios, D., **Caballero, S.**, Haase B. And J. Falconi. The 2005 Galápagos humpback whale expedition: a first attempt to assess and characterize the population in the archipelago. SC/A06/HW15. International Whaling Commission Workshop on Comprehensive Assessment of Southern Hemisphere humpback whales. Hobart, Tasmania, April 3-7, 2006.

Caballero, S., Barrios, H., Mignucci-Giannoni, A., Beltrán, S., Montiel, M.G. Robertson, K. and C.S. Baker. Molecular Systematics of the South American Dolphin *Sotalia* sp: Sister taxa determination and phylogenetic relationships. 16th Biennial Conference on the Biology of Marine Mammals. San Diego, California, USA, December 12-16, 2005.

Tezanos-Pinto, G., Russell, K., Hutt, A., Stone, G., Oremus, M., Garrigue C., Olavarria, C., **Caballero, S.** and C. S. Baker. A diverse neighborhood: population structure of coastal bottlenose dolphins (*Tursiops truncatus*) in New Zealand with a world-wide perspective. 16th Biennial Conference on the Biology of Marine Mammals. San Diego, California, USA, December 12-16, 2005.

Steel, D. J., Holland, O., **Caballero, S.**, Heimeier, D. and C.S. Baker. The ins and outs of cetacean introns: a screen for introns useful in cetacean studies. 16th Biennial Conference on the Biology of Marine Mammals. San Diego, California, USA, December 12-16, 2005.

Hamilton, H. and **S. Caballero**. The *Platanista* conundrum: remarkably low mitochondrial diversity in geologically disjunct populations. 16th Biennial Conference on the Biology of Marine Mammals. San Diego, California, USA, December 12-16, 2005.

Caballero, S., Trujillo, F., Vianna, J.A., Barrios, H., Beltrán, S., Montiel, M.G., Santos, F.R, Marmontel, M., Santos, M.C., Rossi-Santos, M. and C.S. Baker. Phylogeography of the South American Coastal and River Dolphin *Sotalia* sp.: Diving into the Amazonian Biodiversity. Molecular Biology and Evolution Conference, Auckland, New Zealand, June 19-32, 2005.

Caballero, S., Baker, C.S., Medrano-González, L., Trujillo, F., Vianna, J.A., Santos, F.R., Barrios, H., Montiel, M.G and S. Beltrán. Molecular Systematics of the South American Coastal and River Dolphin *Sotalia* sp. Workshop on shortcomings of cetacean taxonomy in relation to needs of conservation and management, La Jolla, California, USA, April 30 - May 2, 2004.

Caballero, S., Barrios, H., Beltrán, S., Montiel, M.G., Trujillo, F. & C.S. Baker. We are family...Still? Mitochondrial DNA Diversity and Differentiation among South American River and Coastal Dolphins *Sotalia* sp. 15th Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina, USA, December 13-19, 2003

Giraldo, J.P., **Caballero, S.**, Montoya-Ospina, R., Montiel, M.G., Trujillo, F., Barrios, H., Mignucci-Gianonni, A. & Bonde, R. Phylogeography of the West Indian Manatee (*Trichechus manatus*) and the Amazonian manatee (*Trichechus inunguis*) in Colombia. 15th Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina, USA, December 13-19, 2003

Olavarria, C., Poole, M., Hauser, N., Garrigue, C., **Caballero, S.**, Russell, K., Oremus, M., Dodemont, R., Flórez-González, L., Capella, J., Rosenbaum, H., Rosenbaum, H. & Baker, C. S. 2003. Population Differentiation of South Pacific Humpback Whales based on Mitochondrial and Nuclear DNA markers. 15th Biennial Conference on the Biology of Marine Mammals. Greensboro, North Carolina, USA, December 13-19, 2003

Caballero, S., Hamilton, H., Trujillo, F. & Diazgranados M.C. Amazon River Dolphin DNA Extracted from Local Skeletal Remains and Museum Specimens: Potential for Phylogeographic Analyses (Poster). 14th Biennial Conference on the Biology of Marine Mammals. November 28- December 3, 2001, Vancouver, Canadá.

Rodríguez-López, M., **Caballero, S.**, Falcon-Matos, L. & Mignucci-Giannoni, A. Population Structure of Manatees in Puerto Rico. (Poster). 14th Biennial Conference on the Biology of Marine Mammals. November 28- December 3 del 2001, Vancouver, Canadá.

Caballero, S., Hamilton, H., Capella, J., Flórez-González, L., Rosenbaum, H. & C.S. Baker. Caracterización genética de la población de ballenas jorobadas (*Megaptera novaeangliae*) del Pacífico Colombiano a partir de secuencias de la región control del ADN mitocondrial. 9^a Reunión de Trabajo de Especialistas en mamíferos acuáticos de América del Sur. October 29- November 3, 2000, Buenos Aires, Argentina

Felix, F., **Caballero, S.**, Lento, G. & J. Capella. Presencia del lobo fino de Galápagos, *Arctocephalus galapagoensis*, en las costas de Ecuador y Colombia (Oral presentation). 9^a Reunión de Trabajo de Especialistas en mamíferos acuáticos de América del Sur. October 29- November 3, 2000, Buenos Aires, Argentina.

THESIS SUPERVISION:

“Identification of two Evolutionarily Significant Units (ESUs) of the pelagic thresher shark (*Alopias pelagicus*) in the Pacific Ocean.” Diego Cardeñoso, MSc. Thesis, Universidad de los Andes, December 2013.

“High levels of gene flow in phenotypically divergent populations of a coral reef fish (*Sparisoma rubripinne*)”. Sergio Gómez, MSc. Thesis, Universidad de los Andes, May 2013. Supervisor.

“Diversidad genética de las poblaciones del langostino blanco *Litopenaeus schmitti* (Burkenroad, 1936) en el Caribe colombiano”. Allan Valle, MSc Thesis, Universidad de los Andes, May 2013. Supervisor.

“Temporal genetic structure and mix stock analysis of green-black turtle (*Chelonia mydas/Chelonia agassizii*) foraging in Gorgona NNP (Colombian Pacific Ocean) and its relationship to ocean environmental features”. Camilo Andrés Correa, MSc. Thesis, Universidad de los Andes, December 2012. Supervisor.

“Molecular systematics of the freshwater stingrays (Myliobatiformes: Potamotrygonidae) of the Amazon, Orinoco, Magdalena, Esequibo, Caribe and Maracaibo basins (Colombia- Venezuela): evidence from mitochondrial genes”. David Alejandro García, MSc. Thesis, Universidad de los Andes, December 2012. Supervisor.

“Genetics and acoustics of the West Indian and Amazonian manatees”. Paula Satizábal, MSc. Thesis, Universidad de los Andes, Bogotá, Colombia, May 2012. Supervisor.

“Population structure of the black arowana (*Osteoglossum ferreirai*) in Brazil and Colombia: implications for its management”. Ana María Olivares, MSc. Thesis, Universidad de los Andes, Bogotá, Colombia, May 2012. Supervisor.

“Variación estacional del pez dorado (*Coryphaena hippurus*) en el Pacífico Colombiano”. Ricardo Téllez, MSc. Thesis, Universidad de los Andes, Bogotá, Colombia, May 2012. Supervisor.

“Caracterización de la microbiota intestinal del manatí antillano (*Trichechus manatus*)”. Paula Otálora, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia, May 2012, Co-supervisor.

“Mitogenome Phylogenetics: The Impact of Using Single Regions and Partitioning Schemes on Topology, Substitution Rate and Divergence Time Estimation”. Sebastián Duchene, MSc. Thesis, Universidad de los Andes, Bogotá, Colombia, May 2011. Supervisor.

“Filogeografía del tiburón de puntas negras (*Carcharhinus limbatus*) en el Pacífico Colombiano”. Susana Casas, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia, December 2011. Supervisor.

“Diversidad en el ADN mitocondrial y estructura poblacional de las ballenas jorobadas (*Megaptera novaeangliae*) en el Hemisferio Sur”. Sebastián Rodríguez Claros, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia, December 2011. Supervisor.

- “Evaluación de la comercialización de pez mota *Calophysus macropterus* (Siluriformes: Pimelodidae) en los mercados de Colombia: Una aproximación desde la biología molecular”. Cristian Salinas, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia, January 2011. Supervisor
- “Diversidad Genética y estructura poblacional del tiburón azul (*Prionace glauca*) en el Pacífico Este Tropical”. Ximena Escobar, BSc. Thesis, Universidad de los Andes, Colombia, December 2010. Supervisor.
- “Patrones de migración e identificación de especies de atún (género *Thunnus*) en las costas del Pacífico Norte Colombiano”. Camila Mariño, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia, December 2010. Supervisor.
- “Identificación Molecular de especies de rayas del género *Potamotrygon* spp en el mercado ornamental de peces en Colombia”, David Alejandro García, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. July 2010. Supervisor.
- “Diversidad Genética e Hipótesis de Estructura Poblacional para la Nutria Gigante (*Pteronura brasiliensis*) entre el Orinoco y el Amazonas”, Camilo Andrés Correa, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. July 2010. Supervisor.
- “Estatus Taxonómico y Estructura Poblacional de la Nutria Neotropical (*Lontra longicaudis*) en Colombia”, Néstor Beltrán, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. May 2010. Supervisor.
- “Determinación de la diversidad genética de la Arawana Azul (*Osteoglossum ferreirai*) para su manejo y conservación en la Orinoquia Colombiana”, Ana Maria Olivares, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. May 2010. Supervisor.
- “Diversidad genética de Odontocetos del Caribe”, Pablo Tovar, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. May 2010. Supervisor.
- “Effects of Habitat Loss in Juvenile Lemon Sharks (*Negaprion brevirostris*) on Mortality and Growth Rates in Bimini, Bahamas”, Diego Cardeñoso, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. May 2010. Supervisor.
- “Estudios filogeográficos y filogenéticos de los osos perezoso de tres dedos (*Bradypus variegatus*) y de dos dedos (*Choloepus hoffmanni*) mediante el gen mitocondrial Citocromo Oxidasa I”, Diego Chacón, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. May 2010. Co-supervisor.
- “Widespread Distribution of *Symbiodinium* clade G in excavating sponges (*Cliona* spp.) from the Southern Caribbean”, Laura Rubio, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. May 2010. Co-supervisor.
- “Caracterización genética de la población de ballenas jorobadas (*Megaptera novaeangliae*) de la costa Pacífica Colombiana mediante el uso de secuencias de ADN mitocondrial. Cambio en diez años?” María Victoria Rodríguez Maldonado, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. January 2010. Supervisor.
- “Identificación de especies de tiburones del Pacífico Colombiano afectadas por el aleteo extractivo usando métodos moleculares”, Diego Prada, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. January 2010. Supervisor.
- “Mercury Determination on Aquatic Food Chain in Puerto Nariño, (Amazonas; Colombia): Ecological Implications at Regional Level”, Juan Camilo Cubillos, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. January 2010. Co-supervisor.

“Hielo, trópico y la foca de casco: panmixia aparente ó flujo genético reciente que esconde poblaciones del pasado”, Sergio Gómez, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia. December 2009. Supervisor.

“Hipótesis de flujo genético mediado por machos y filogeografía del manatí del Caribe (*Trichechus manatus*) y el manatí Amazónico (*Trichechus inunguis*), de Colombia”. Paula Satizábal, BSc Thesis, Universidad de los Andes, Bogotá, Colombia, July 2009. Supervisor.

“The oscillating connectivity hypothesis as seen from phylogeographic patterns at an ancient Amazon lagoon”. Sebastián Duchene, BSc Thesis, Universidad de los Andes, Bogotá, Colombia, July 2009. Supervisor.

“Bacterias del género *Helicobacter* en mamíferos marinos: Investigación de genes putativos de virulencia relacionados con el desarrollo de patología gastroduodenal”. Karen Rodríguez, BSc thesis, Universidad de los Andes, Bogotá, Colombia, July 2009. Co-supervisor.

“Mitochondrial diversity of short-finned Pilot Whales (*Globicephala macrorhynchus*) and roughed toothed dolphins (*Steno bredanensis*) in the Caribbean”. Ricardo Téllez, BSc Thesis, Universidad de los Andes, Bogotá, Colombia, May 2009. Supervisor.

“Diferenciación genética de delfines de la especie *Sotalia fluviatilis* a partir de RAPD-PCR”. Jair García, BSc. thesis, Universidad de Los Andes, Bogotá, Colombia, September 2003. Co-supervisor.

“Análisis de la diversidad filogenética de la tortuga verde (*Chelonia mydas*) en el golfo de Venezuela”. Héctor Barrios, BSc thesis, Departamento de Biología. Facultad Experimental de Ciencias, La Universidad del Zulia, Maracaibo , Venezuela. July 2003. Co-supervisor.

“Diversidad genética en muestras de manatí (*Trichechus manatus*) del Sistema del Lago de Maracaibo”. María Gabriela Montiel, BSc. Thesis, Departamento de Biología. Facultad Experimental de Ciencias, la Universidad del Zulia, Maracaibo , Venezuela. July 2003. Co-supervisor.

“Amplificación de dos loci microsatélites a partir de restos óseos del delfin del Amazonas, *Inia geoffrensis*”, Diego Acosta, MSc thesis, Universidad de los Andes, Bogotá, Colombia, September 2002. Co-supervisor.

“Filogeografía del manatí caribeño (*Trichechus manatus*) y el manatí amazónico (*Trichechus inunguis*) en Colombia.” Juan Pablo Giraldo, BSc. Thesis, Universidad de los Andes, Bogotá, Colombia, September 2002. Co-supervisor.

SEMINARS & COURSES

Secuenciación de próxima generación y su uso en la genética para la conservación. Speaker. Course post-Congreso. Primer Congreso Latinoamericano de Genética para la Conservación, Estado Vargas, Venezuela. May 5-9, 2014

III Taller Interregional para la Ordenación y Conservación de Tiburones en el Océano Pacífico Oriental. Participant. July 6-9, 2010. Manta, Ecuador.

Recent Advances in Conservation Genetics. Participant. August 17-30, 2002. Front Royal, Virginia, U.S.A.

Biology and Conservation of Marine Mammals in Venezuela. Speaker. December 4 –11, 2000, Porlamar, Isla Margarita, Venezuela

Recent Advances in the Study of Marine Mammals. Speaker. Curso preRT de Especialistas en Mamíferos Acuáticos de América del Sur. October 23-27, 2000. Buenos Aires, Argentina

Workshop on South Pacific Humpback Whales. Participant and speaker. March 4-6, 2000. University of Auckland, Auckland, New Zealand.

Identification and Study Techniques of Aquatic Mammals in Colombia. Participant and speaker. Fundación Omacha, November 24-26, 1999. Bogotá, Colombia.

II International Course on Ecology of Neotropical Mammals. Universidad Javeriana, October 12-16, 1999. Bogotá, Colombia.

III International Course on Molecular Techniques for the Study of Biodiversity. Participant. Instituto "Alexander von Humboldt", Smithsonian Institute, CIAT. May 31 - June 12, 1999. Palmira, Colombia

LANGUAGES

Spanish: 100%

English: 100%

French: 80%