

## *Curriculum Vitae*

# Marcos Pérez-Losada

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Senior Research Scientist  
CIBIO, Centro de Investigação em  
Biodiversidade e Recursos Genéticos  
Universidade do Porto  
Campus Agrário de Vairão  
4485-661 Vairão, Portugal  
Phone: +351 252-660406 (office)  
Fax: +351 252-661780  
E-mail: [mlosada@mail.icav.up.pt](mailto:mlosada@mail.icav.up.pt)

Adjunct Faculty  
Department of Biology  
Brigham Young University  
WIDB401  
UT 84602, USA  
Phone: +1 801 422-5594 (lab)  
Fax: +1 801 422-0090  
E-mail: [mlosada323@gmail.com](mailto:mlosada323@gmail.com)

### **EDUCATION**

- 1988-1992 B.S. University of Santiago de Compostela, Spain. *Summa Cum Laude*.  
Major: Biology, emphasis in genetics.
- 1992-1993 M.S. University of Vigo, Spain. *Summa Cum Laude*.  
Master Thesis: Allozyme polymorphisms and phylogenetic relationships among nine cephalopod species from the families Sepiidae, Ommastrephidae, and Loliginidae. Andrés Sanjuan & Angel Guerra, advisors.
- 1993-1998 Ph.D. University of Vigo, Spain. *Summa Cum Laude and Thesis Award*.  
Ph.D. Thesis: Genetic differentiation and phylogenetics of *Sepia* spp. and another ten cephalopod species of the families Ommastrephidae, Loliginidae, Sepiolidae, and Octopodidae. Andrés Sanjuan & Angel Guerra, advisors.

### **PROFESSIONAL EXPERIENCE**

- 1992-1998 Research Assistant, Andrés Sanjuan & Angel Guerra, University of Vigo, Spain
- 1998 Post-doctoral Fellow, Paul Shaw & Gary Carvalho, University of Hull, UK
- 1998-1999 Visiting Assistant Professor, University of Vigo, Spain
- 1999-2001 Fulbright post-doctoral Fellow, Keith A. Crandall, BYU, Utah, USA
- 2002 Visiting Researcher, Jeffrey Boore, Joint Genome Institute, California, USA
- 2001-2005 Research Associate, BYU, Utah, USA
- 2005-2008 Senior Research Scientist, GENOMA LLC, USA
- 2007-2008 Visiting Assistant Professor, BYU, USA
- 2008-2009 Research Scientist, CIBIO, Vairão, Portugal

### **GRANT SUPPORT**

- 2000-2003 National Science Foundation, USA. "Molecular systematics of the freshwater crab family Aeglidae", NSF-DEB 0075600 (\$180,000). Principal Investigator: Keith Crandall\*.
- 2002-2004 United States Forest Service, "*Oreohelix* genetics study", (\$10,000). Principal Investigator: Keith Crandall\*.
- 2003-2006 National Science Foundation, USA. "Systematics and Evolution of Barnacles", NSF-DEB 0236135 (\$300,000). Principal Investigator: Keith Crandall\*.
- 2006-2009 Ministerio de Educación y Ciencia, Spain. "Phylogenetic relationships of Lumbricidae (Oligochaeta) based on molecular and morphological evidence", CGL2006-11928/BOS (\$76,000). Principal Investigators: Jorge Domínguez and Marcos Pérez-Losada.
- 2009 Fundação Calouste Gulbenkian, Portugal (\$1500).

2010-2011 Fundação para a Ciência e a Tecnologia, Portugal. “Unraveling the evolutionary radiation of the acorn barnacles (Thoracica: Sessilia: Balanomorpha) using molecular and morphological data”. PTDC/BIA-BEC/098553/2008 (\$78,525). Principal Investigator: Marcos Pérez-Losada.

\*As a Postdoc at BYU I planned, wrote and managed these grants (see Reference Letter by Keith A. Crandall).

## PEER-REVIEW PUBLICATIONS

### **SCI Journals (48 publications)**

- 1996 **Pérez-Losada M.**, A. Guerra & A. Sanjuan. Allozyme electrophoretic technique and phylogenetic relationships in three species of *Sepia* (CEPHALOPODA: SEPIIDAE). *Comparative Biochemical Physiology* 114B: 11-18.  
Sanjuan A., **M. Pérez-Losada** & A. Guerra. Genetic differentiation in three *Sepia* species (MOLLUSCA: CEPHALOPODA) from Galician waters (northwest Iberian Peninsula). *Marine Biology* 126: 253-259.
- 1997 Sanjuan A., **M. Pérez-Losada** & E. Rolan. Allozyme evidence for cryptic speciation in sympatric populations of the marine pollution indicator *Nassarius* spp. (MOLLUSCA: GASTROPODA). *Journal Marine Biology Association U. K.* 77: 773-784.
- 1999 **Pérez-Losada M.**, A. Guerra & A. Sanjuan. Allozyme differentiation in the cuttlefish *Sepia officinalis* (Mollusca: Cephalopoda) from the NE Atlantic and Mediterranean. *Heredity* 83: 280-289.  
Shaw P. W. & **M. Pérez-Losada**. Polymorphic microsatellites in the common cuttlefish *Sepia officinalis*. *Molecular Ecology* 9: 237-238.
- 2001 Guerra A., **M. Pérez-Losada**, F. Rocha & A. Sanjuan. Species differentiation of *Sepia officinalis* and *Sepia hierredda* (Cephalopoda: Sepiidae) based on morphological and allozyme analyses. *Journal Marine Biology Association U.K.* 81: 271-281.
- 2002 **Pérez-Losada M.**, C. Jara, G. Bond-Buckup & K. A. Crandall. Conservation phylogenetics of Chilean freshwater crabs *Aegla* (ANOMURA, AEGLIDAE): assigning priorities for aquatic habitat protection. *Biological Conservation* 105: 345-353.  
**Pérez-Losada M.**, C. Jara, G. Bond-Buckup, M. Porter & K. A. Crandall. Phylogenetic position of the freshwater anomuran Aeglidae. *Journal of Crustacean Biology* 22: 670-676.  
**Pérez-Losada M.**, J. T. Høeg, G. A. Kolbasov & K. A. Crandall. Reanalysis of the relationships among the Cirripedia and the Ascothoracida and the phylogenetic position of the Facetotecta (Maxillopoda: Thecostraca) using 18S rDNA sequences. *Journal of Crustacean Biology* 22: 661-669.  
**Pérez-Losada M.**, C. Jara, G. Bond-Buckup & K. A. Crandall. Phylogenetic relationships among the species of *Aegla* (ANOMURA: AEGLIDAE) freshwater crabs from Chile. *Journal of Crustacean Biology* 22: 304-313.  
**Pérez-Losada M.**, A. Guerra, G. R. Carvalho, A. Sanjuan & P. W. Shaw. Extensive population subdivision of the cuttlefish *Sepia officinalis* (Mollusca: Cephalopoda) around the Iberian Peninsula indicated by microsatellite DNA variation. *Heredity* 89: 417-424.  
**Pérez-Losada M.**, A. Guerra & A. Sanjuan. Allozyme divergence supporting the taxonomic separation of *Octopus mimus* and *O. maya* from *Octopus vulgaris* (Cephalopoda: Octopoda). *Bulletin of Marine Science* 71: 653-664.
- 2003 Jara C. G., **M. Pérez-Losada** & K. A. Crandall. *Aegla occidentalis* (Crustacea: Decapoda: Aeglidae), a new species of freshwater anomuran crab from the Nahuelbuta Coastal Range, Chile. *Proceeding of the Biological Society of Washington* 116: 954-963.

- 2004 **Pérez-Losada M.**, J. T. Høeg & K. A. Crandall. Unraveling the evolutionary radiation of the thoracican barnacles using molecular and morphological evidence: a comparison of several divergence time estimation approaches. *Systematic Biology* 53: 244-264.
- Pérez-Losada M.**, G. Bond-Buckup, C. Jara & K. A. Crandall. Molecular systematics and biogeography of the southern South American freshwater “crabs” *Aegla* (Decapoda: Anomura: Aeglidae) using multiple heuristic tree search approaches. *Systematic Biology* 53: 767-780.
- 2005 **Pérez-Losada, M.**, J. Eiroa, S. Mato & J. Domínguez. Phylogenetic species delimitation of the earthworms *Eisenia fetida* (Savigny, 1826) and *Eisenia andrei* Bouché, 1972 (Oligochaeta, Lumbricidae) based on mitochondrial and nuclear DNA sequences. *Pedobiologia* 49:317-324.
- Shull, H. C., **M. Pérez-Losada**, D. Blair, K. Sewell, E. A. Sinclair, S. Lawler, M. Ponniah & K. A. Crandall. Phylogeny and biogeography of the freshwater crayfish *Euastacus* (Decapoda: Parastacidae) based on nuclear and mitochondrial DNA. *Molecular Phylogenetics and Evolution* 37: 249-263.
- Pérez-Losada, M.**, Raphael P. Viscidi, & Keith A. Crandall. Population Genetics of *Neisseria gonorrhoeae* in a High Prevalence Community Using a Hyper-Variable Outer Membrane *porB* and Thirteen Slow-Evolving Housekeeping Genes. *Molecular Biology and Evolution* 22: 1887-1902.
- Porter, M. L., **M. Pérez-Losada** & K. A. Crandall. Model based multi-locus estimation of Decapod phylogeny and divergence times. *Molecular Phylogenetics and Evolution* 37:355-369.
- Martínez, P., **M. Pérez-Losada**, A. Guerra & A. Sanjuan. First genetic validation and diagnosis of the short-finned squid species of the genus *Illex* (Cephalopoda: Ommastrephidae). *Marine Biology* 148:97-108.
- 2006 **Pérez-Losada, M.**, E. B. Browne, A. Madsen, T. Wirth, R. P. Viscidi & K. A. Crandall. Population genetics of microbial pathogens estimated from Multilocus Sequence Typing (MLST) data. *Infection, Genetics and Evolution* 6:97-112.
- Crandall, K. A., **M. Pérez-Losada**, R. G. Christensen, D. A. McClellan & R. P. Viscidi. Phylogenomics and molecular evolution of Polyomaviruses. *Advances in Experimental Medicine and Biology* 577:46-59. Review.
- Daniels, S. R., N. Cumberlidge, **M. Pérez-Losada** & K. A. Crandall. Evolution of Afrotropical freshwater crab lineages obscured by morphological convergence. *Molecular Phylogenetics and Evolution* 40:227-235.
- Pérez-Losada, M.**, R. G. Christensen, D. A. McClellan, Byron Adams, R. P. Viscidi, and K. A. Crandall. Phylogenetic codivergence of polyomaviruses and their hosts. *Journal of Virology* 80: 5663-5669.
- Jobs, D. V., M. Daoust, V. T. Nguyen, A. Padua, F. Sinangil, **M. Pérez-Losada**, K. A. Crandall, T. Oliphant, D. Posada, A. Rambaut, J. Fuchs, & P. W. Berman. Longitudinal population analysis of dual infection with recombination in two strains of HIV-1 subtype B in an individual from a Phase 3 HIV vaccine efficacy trial. *AIDS* 22:968-978.
- 2007 **Pérez-Losada, M.**, M. L. Porter, L. Tazi, & K. A. Crandall. New methods for inferring population dynamics from microbial sequences. *Infection, Genetics and Evolution* 7:24-43.
- Pérez-Losada, M.**, M. J. Nolte, K. A. Crandall, & P. W. Shaw. Testing hypotheses of population structuring in the NE Atlantic Ocean and Mediterranean Sea using the common cuttlefish *Sepia officinalis*. *Molecular Ecology* 16:2667-2679.
- Pérez-Losada, M.**, K. A. Crandall, J. Zenilman & R. P. Viscidi. Temporal trends in gonococcal population genetics in a high prevalence urban community. *Infection, Genetics and Evolution* 7:271-278.

- Pérez-Losada, M.**, K. A. Crandall, M. C. Bash, M. Dan, J. Zenilman & R. P. Viscidi. Molecular Epidemiology of Quinolone-Resistant *Neisseria gonorrhoeae* in Israel. *BMC Evolutionary Biology* 7:84-94.
- Porter, M. L., K. Dittmar de la Cruz & **M. Pérez-Losada**. How long does evolution of the troglomorphic form take? Estimating divergence times in *Astyanax mexicanus*. *Acta Carsologica* 36: 173-182.
- 2008 **Pérez-Losada, M.**, M. Harp, J. T. Høeg, Y. Achituv, D. Jones, H. Watanabe & K. A. Crandall. The tempo and mode of barnacle evolution. *Molecular Phylogenetics and Evolution* 46: 328–346.
- Bond-Buckup, G., C. G. Jara, **M. Pérez-Losada**, L. Buckup & K. A. Crandall. An assessment of global diversity of the freshwater ‘crab’ Aeglidae (Decapoda: Anomura). *Hydrobiologia* 595: 267–273.
- Carvajal-Rodríguez, A., D. Posada, **M. Pérez-Losada**, E. Keller, E. J. Abrams, K. A. Crandall and R. P. Viscidi. Disease progression and evolution of the HIV-1 *env* gene in 24 infected infants. *Infection Genetics and Evolution* 8:110-120.
- Weaver, K. F., **M. Pérez-Losada**, R. P. Guralnick, A. Nelson, S. Blatt & K. A. Crandall. Assessing the conservation status of the land snail *Oreohelix peripherica wasatchensis* (Family Oreohelicidae). *Conservation Genetics* 9: 907-916.
- Høeg, J., H. Glenner, M.J. Grygier, Y. Fujita, **M. Pérez-Losada** and K.A. Crandall. Metamorphosis in crustacean Y-larvae. A parasitic solution to an old zoological riddle. *Journal of Morphology* 269: 1471.
- 2009 Xu, J., **M. Pérez-Losada**, C. G. Jara & K. A. Crandall. Pleistocene glaciation leaves deep signature on the freshwater crab *Aegla alacalufi* in Chilean Patagonia. *Molecular Ecology* 18: 904-918.
- Høeg, J. T., Y. Achituv, B. K.K. Chan, K. Chan, P. Gram Jensen & **M. Pérez-Losada**. Cypris Morphology in the barnacles *Ibla* and *Paralepas* (Crustacea: Cirripedia Thoracica) - Implications for Cirripede Evolution. *Journal of Morphology* 270: 241-255.
- Pérez-Losada, M.**, Jens T. Høeg and Keith A. Crandall. Remarkable convergent evolution in specialized parasitic Thecostraca (Crustacea). *BMC Biology* 7: 15.
- Pérez-Losada, M.**, G. Bond-Buckup, C. G. Jara & K. A. Crandall. Conservation assessment of southern South American freshwater ecoregions on the basis of the distribution and genetic diversity of crabs from the genus *Aegla*. *Conservation Biology* 23: 692-702.
- Pérez-Losada, M.**, M. Ricoy, J. Marshall & J. Domínguez. Phylogenetic assessment of the earthworm *Aporrectodea caliginosa* species complex (Oligochaeta, Lumbricidae) based on mitochondrial and nuclear DNA sequences. *Molecular Phylogenetics and Evolution* 52: 293-302.
- Pérez-Losada, M.**, D. Posada, D. V. Jobes, F. Sinangil, P. W. Berman & K. A. Crandall. Ethnic differences in the adaptation rate of HIV gp120 from a vaccine trial. *Retrovirology* 6: 67.
- Santos, S., G. Bond-Buckup, **M. Pérez-Losada**, M. Ladvoat Bartholomei-Santos & L. Buckup. *Aegla manuinflata*, a new species of freshwater anomuran (Decapoda: Anomura: Aeglidae) from the Ibicuí River basin, Rio Grande do Sul, Brazil, determined by morphological and molecular characters. *Zootaxa* 2088: 31-40.
- Høeg, J. T., **M. Pérez-Losada**, Henrik Glenner, Gregory A Kolbasov and Keith A. Crandall. Evolution of morphology, ontogeny and life cycles within the Crustacea Thecostraca. *Arthropod Systematics and Phylogeny* 67: 199-217.
- Pérez-Losada, M.**, David V. Jobes, Faruk Sinangil, Keith A. Crandall, David Posada, and Phillip W. Berman. Phylodynamics of gp120 sequences from a Phase 3 HIV-1 vaccine trial in North America. *Molecular Biology and Evolution* (in press).
- Núñez, J. J., M. T. González & **M. Pérez-Losada**. Testing species boundaries between *Sebastes capensis* and *S. oculatus* (Teleostei: Scorpaenidae) through mitochondrial DNA sequences. *Revista de Biología Marina y Oceanografía* (in press).

- Tazi, T., **M. Pérez-Losada**, W. Gu, L. Xue, K. A. Crandall & R. P. Viscidi. Population Dynamics of *Neisseria gonorrhoeae* in Shanghai, China: A Comparative Study. *BMC Infectious Diseases* (accepted).
- Bond-Buckup, G., C. G. Jara, L. Buckup, **M. Pérez-Losada**, A. A. P. Bueno, K. A. Crandall & S. Santos. New species and new records of endemic freshwater crabs from the Atlantic forest in southern Brazil (Anomura, Aeglidae). *Journal of Crustacean Biology* (accepted).
- Toon, A., **M. Pérez-Losada**, C. E. Schweitzer, R. M. Feldman, M. Carlson & K. A. Crandall. Gondwanan radiation of the southern hemisphere crayfish (Decapoda: Parastacidae): Evidence from fossils and molecules. *Journal of Biogeography* (accepted).

#### **Non-SCI Journals (2 publications)**

- 2004 **Pérez-Losada M.** & K. A. Crandall. Can taxonomic richness be used as a surrogate for phylogenetic distinctness indices for ranking areas for conservation? *Animal Biodiversity and Conservation* 26.1: 77-84.
- 2009 Domínguez, J., M. Ricoy, and **M. Pérez-Losada**. *Eisenia fetida* (Savigny, 1826) y *Eisenia andrei* Bouché, 1972 son dos especies diferentes de lombrices de tierra. *Acta Zoologica Mexicana* (in press).

#### **Book Chapters (7 publications)**

- 2005 Sinclair E. A., M. Pérez-Losada & K. A. Crandall. Molecular phylogenetics for conservation biology. *In* Phylogeny and conservation, pp. 19-56 (Purvis, A., T. Brooks, and J. Gittleman, Eds.). Cambridge University Press, Cambridge, UK.
- 2008 Crandall, K. A. & **M. Pérez-Losada**. Epidemiological and evolutionary dynamics of pathogens. *In*: Evolutionary biology of bacterial and fungal pathogens, pp. 21-30 (Baquero et al., Eds.). American Society of Microbiology Press, Washington, D. C.
- Pérez-Losada, M.**, M. L. Porter & K. A. Crandall. Methods for analyzing viral evolution. *In*: Plant Virus Evolution, pp. 165-204 (M. J. Roossinck, Ed.). Springer-Verlag Berlin Heidelberg.
- 2009 Crandall, K. A., M. L. Porter, **M. Pérez-Losada**. Crabs, shrimps and lobsters (Decapoda). *In*: Time tree of Life, pp. 293-297 (S. Blair Hedges and Sudhir Kumar, Eds.). Oxford University Press, Oxford.
- Pérez-Losada, M.**, J. T. Høeg and K. A. Crandall. Stalked and acorn barnacles (Thoracica). *In*: Time tree of Life, pp. 298-301 (S. Blair Hedges and Sudhir Kumar, Eds.). Oxford University Press, Oxford.
- Breinholt, J., **M. Pérez-Losada** & K. A. Crandall. The timing of the diversification of the freshwater crayfishes. *In*: Decapoda crustacean phylogenetics, pp. 335-347 (J. W. Martin, K. A. Crandall and D. L. Felder, Eds.). CRC Press, Taylor & Francis Group.
- Pérez-Losada, M.** Mandibulados. *In*: El árbol de la vida: sistemática y evolución de los seres vivos, chapter 27 (Rafael Zardoya and P. Vargas-Gómez, Eds.). Museo de Ciencias Naturales, CSIC, Madrid, Spain (in press).

#### **SCIENTIFIC REPORTS**

- 1994 Sanjuan A., M. Pérez-Losada & A. Guerra. Preliminary polymorphisms in *Sepia officinalis* and *S. orbignyana* (Mollusca: Cephalopoda) populations from Galician Waters (NW of the Iberian Peninsula). *In*: Report of the study group on stock identification protocols for finfish and shellfish stocks. International Council for the Exploration of the Sea C.M. 1994/M5 Ref.: G+H+K, pp. 1-48.

#### **SUBMITTED PUBLICATIONS**

- Guerra, A., A. Roura, A. F. González, S. Pascual, Y. Cherel & **M. Pérez-Losada**. Morphological and genetic evidence that *Octopus vulgaris* Cuvier, 1797 inhabits Amsterdam and Saint Paul Islands (Southern Indian Ocean). *Marine Biology*.
- Michael B. Coulthart, Anton Andonov, Gregory A. Dekaban, Keith A. Crandall, **Marcos Pérez-Losada**, David Posada, Ruth Padmore & Antonio Giulivi. New insights into Human T-cell Lymphotropic Virus Type 1 phylogeography based on two Strains from Nunavut, Canada. *Journal of Virology*.
- HIV-1 infected monozygotic twins: a tale of two outcomes. Loubna Tazi, Hiromi Imamichi, Steven Hirschfeld, Julia A. Metcalf, Susan Orsega, **Marcos Pérez-Losada**, David Posada, H. Clifford Lane & Keith A. Crandall

### **TEACHING EXPERIENCE**

- 1995 Teaching Assistant: Genetics, University of Vigo, Spain.
- 1996 Teaching Assistant: Genetics of Marine Organisms, University of Vigo, Spain.
- 1998 Visiting Assistant Professor: Human Genetics, University of Vigo, Spain.
- 1999 Visiting Assistant Professor: Molecular Techniques in Genetics, University of Vigo, Spain.
- 2003 Guest Lecturer: Molecular Systematics, University Austral of Chile, Chile.
- 2004 Guest Lecturer: Bayesian Phylogenetic Analysis, University Autónoma of Morelos, Mexico.
- 2008 Visiting Assistant Professor: Molecular Evolution, BYU, USA.
- 2008 Guest Lecturer: Phylogenetic analysis of DNA sequences, Bar Ilan University, Israel.
- 2009 Guest Lecturer: Molecular Systematics, University Austral of Chile, Chile.
- 2009 Guest Lecturer: Coalescent theory: fundamentals and applications, Museo Nacional de Ciencias Naturales, Madrid, Spain.

### **FELLOWSHIPS and AWARDS**

- 1992-1997 Xunta de Galicia Fellowship, Spain (\$44,000)
- 1997 University of Vigo Fellowship, Spain (\$9,000)
- 1998 University of Vigo Research Fellowship, Spain (\$3,000)
- 1998-1999 University of Vigo Post-doctoral Fellowship, Spain (\$18,000)
- 1999 University of Vigo Ph.D. Thesis Award
- 1999-2001 Fulbright-MEC Postdoctoral Fellowship, Spain/USA (\$45,000)

### **PROFESSIONAL SERVICES**

#### ***Journal Editor:***

Associate editor (2009 - present): *Infection, Genetics and Evolution*.

#### ***Journal Referee:***

Bioinformatics, BioMed Central, Cell Biology International, Evolution, Infection Genetics and Evolution, Invertebrate Systematics, Journal of Crustacean Biology, Journal of Evolutionary Biology, Journal of Natural History, Journal of Biogeography, Journal of Molecular Evolution, Marine Biology, Molecular Biology and Evolution, Molecular Ecology, Molecular Phylogenetics and Evolution, PLOSone, Proceedings of the Biological Society of Washington, and Systematic Biology.

#### ***Grant Referee***

NSF

#### ***Symposium Organizer***

Twelfth International Malacological Congress. Vigo, Spain.

### **STUDENT MENTORING**

Ash Nelson, B.S., ORCA Fellow 2003, BYU, USA.

Project: Molecular systematics of the land snail *Oreohelix*. *Biological Conservation* (in press).

Pilar Martínez, Ph.D. 2003, University of Vigo, Spain.

Thesis: Molecular and morphological phylogenetic analysis of the squid *Illex*. *Marine Biology* 148:97-108.

Aaron Madsen, B.S., ORCA Fellow 2003, BYU, USA.

Project: Population genetics of microbial pathogens based on MLST loci. *Infection, Genetics and Evolution*, 6:97-112.

Emily B. Browne, B.S., ORCA Fellow 2004, BYU, USA.

Project: Population genetics of microbial pathogens based on MLST loci. *Infection, Genetics and Evolution*, 6:97-112.

Mark Nolte, B.S., ORCA Fellow 2004, BYU, USA.

Project: Population structure of the cuttlefish *S. officinalis*. *Molecular Ecology*, 16:2667-2679.

Heather Condie Shull, Honors B.S. 2004, BYU, USA.

Project: Phylogeny and biogeography of the freshwater crayfish *Euastacus*. *Molecular Phylogenetics and Evolution* 37: 249-263.

Margaret Harp, B.S., ORCA Fellow 2004, BYU, USA.

Project: The tempo and mode of barnacle evolution. *Molecular Phylogenetics and Evolution* 46: 328-346.

Maigualida Ricoy Martínez, PhD. 2006-2009, University of Vigo, Spain.

Project: Phylogenetic relationships of Lumbricidae (Oligochaeta) based on molecular and morphological evidence.

Ryan Seamons, B.S. 2007, BYU, USA.

Project: COI barcoding.

Jordan Hulet, B.S. 2007, BYU, USA.

Project: Inference of population dynamics using simulated data.

Nathan Clement, B.S. 2007-2008, BYU, USA.

Project: Inference of population dynamics using simulated data.

Elsa Froufe, FCT Postdoc, 2009, CIBIO, Portugal

Project: Phylogeography of selected marine crustaceans from the Macaronesia

Gustavo Valdigem, FCT PhD, 2009, CIBIO, Portugal

Project: Phylodynamics of gonorrhoea in antibiotic non- and resistant communities

### **INVITED LECTURES**

2003 Systematics, biogeography, and conservation of the southern South American freshwater crabs Aeglidae. Universidad Austral de Chile, Valdivia, Chile.

2004 Evolutionary radiation of the thoracican barnacles using molecular and morphological evidence. University Autónoma of Morelos, Mexico.

2008 Phylogeography and conservation of the Southern South American Freshwater Crabs Aegla (Decapoda: Anomura: Aeglidae). Eilat, Israel.

2009 Fundamentals and applications of molecular phylogenetics, University of the Azores, Portugal.

2009 Barnacle phylogenetics: last insights on the evolution of the first model organism. The Crustacean Society, Summer Meeting. Tokyo, Japan.

### **CONGRESS and SYMPOSIUM PRESENTATIONS**

**Pérez-Losada M.**, A.Guerra & A. Sanjuan, 1993. Polimorfismos alozímicos y relaciones filogenéticas de nueve especies de cefalópodos. XXVIII Jornadas Luso-Espanholas de Genética. Faro (Algarve), Portugal.

- Sanjuan A., **M. Pérez-Losada** & A. Guerra, 1995. Genetic differentiation in the three species of *Sepia* (MOLLUSCA: CEPHALOPODA) from Galician waters (N.W. of the Iberian Peninsula). Twelfth International Malacological Congress. Vigo, Spain.
- Sanjuan A., **M. Pérez-Losada** & E. Rolan, 1995. Genetic divergence between sympatric populations of *Nassarius reticulatus* and *N. nitidus* (MOLLUSCA: GASTROPODA) from Ría de Vigo (N.W. of the Iberian Peninsula). Twelfth International Malacological Congress. Vigo, Spain.
- Pérez-Losada M.**, A. Guerra & A. Sanjuan, 1996. Evolutionary relationships of Sepiidae, Sepiolidae, Loliginidae and Ommastrephidae (MOLLUSCA: CEPHALOPODA) based on allozyme polymorphisms. IV International Symposium Cephalopods - Present and Past. Granada, Spain.
- Pérez-Losada M.**, A. Guerra & A. Sanjuan, 1997. Genetic evidences for *Sepia hierredda* as a different biological species from *S. officinalis* (Cephalopoda: Sepiidae). CIAC'97 International Symposium on Cephalopod Biodiversity, Ecology and Evolution. Cape Town, South Africa.
- Martinez P., **M. Pérez-Losada**, A. Guerra & A. Sanjuan, 1998. Allozyme differentiation and diagnosis of the short-finned squid species of the genus *Illex* (Cephalopoda: Ommastrephidae). 1988 Word Congress of Malacology. Smithsonian Institution, Washington DC., USA.
- Shaw P. W., **M. Pérez-Losada**, A. Guerra & A. Sanjuan, 1999. Isolation by distance, oceanographic barriers to gene flow and secondary contact between Atlantic and Mediterranean populations: new evidence from microsatellite DNA studies of the cuttlefish *Sepia officinalis*". European Symposium in Evolutionary Biology (ESEB), Barcelona, Spain.
- Pérez-Losada M.**, A. Guerra & A. Sanjuan, 2000. Allozyme divergence supporting the taxonomic separation of *Octopus mimus* and *O. maya* from *Octopus vulgaris* (Cephalopoda: Octopoda). Cephalopod Biomass & Production CIAC 2000, Aberdeen, Scotland.
- Shaw P. W., **M. Pérez-Losada**, A. Guerra & A. Sanjuan, 1999. Isolation by distance, oceanographic barriers to gene flow and secondary contact between Atlantic and Mediterranean populations: new evidence from microsatellite DNA studies of the cuttlefish *Sepia officinalis*". Cephalopod Biomass & Production CIAC 2000, Aberdeen, Scotland.
- Pérez-Losada M.**, C. Jara, G. Bond-Buckup & K. A. Crandall, 2001. "Phylogenetic relationships and conservation of the species of *Aegla* (ANOMURA: AEGLIDAE) freshwater crabs from Chile". Molecular Biology and Evolution Meetings, Bloomington, Indiana, USA.
- Porter, M., **M. Pérez-Losada** & K. A. Crandall, 2001. Relationships within the Decapoda: the reptantian riddle. 5th international Crustacean Congress and "Summer" 2001 meeting of the Crustacean Society. Melbourne, Australia.
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- Pérez-Losada, M.** & K. A. Crandall, 2005. Are bacterial MLST genes really neutral? It depends on the “site” of the beholder. *Evolution*. Fairbanks, AK, USA.
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- Pérez-Losada, M.**, 2007. The evolutionary dynamics of HIV-1 subtypes B and A/E in Thailand. Workshop at La Fouly, Switzerland.
- Jara, C., K.A. Crandall & **M. Pérez-Losada**, 2007. *Aegla* (Crustacea: Decapoda: Anomura) en Patagonia: Filogeografía preliminar de tres especies. IV Congreso de la Sociedad Chilena de Limnología y 16º Taller de Limnología. Santiago de Chile, Chile.
- Pérez-Losada, M.**, J. Xu, C. Jara, & K. A. Crandall, 2008. Speciation patterns in Patagonia: insights from *Aegla* freshwater crabs. SICB, San Antonio, Texas.
- Høeg, J. T., **M. Pérez-Losada**, & K. A. Crandall, 2008. Phylogeny of thecostracan Crustacea: Evolution of larvae, sessility, parasitism and growth. International Symposium on Crustacean Phylogeny. Rostock, Germany.
- Høeg, J. T., **M. Pérez-Losada**, & K. A. Crandall, 2008. Metamorphosis in Y-larvae: A remarkable convergence between the facetotectan ypsigon and the rhizocephalan vermigon. TCS meeting, Texas A&M University. Galveston, Texas.
- Pérez-Losada, M.** J. T. Høeg, Y. Achituv, D. Jones & K. A. Crandall, 2008. The Tempo and Mode of Barnacle Evolution. Society for Molecular Biology and Evolution. Barcelona, Spain.
- Pérez-Losada, M.**, D. Posada, P. Berman, F. Sinangil, D. Jobes, and K. A. Crandall, 2008. Population dynamics of HIV-1 subtype B in USA estimated from data collected in a phase III AIDS vaccine trial. Society for Molecular Biology and Evolution. Barcelona, Spain.
- Pérez-Losada, M.**, D. Posada, and K. A. Crandall, 2008. BEAST y LAMARC a la palestra: evaluación de métodos de coalescencia para inferir dinámica de poblaciones usando datos empíricos y simulados. XVII Seminario de genética de poblaciones y evolución. Ribadesella, Spain.

#### **WORKSHOPS ATTENDED**

- 1998 Analysis of the Evolutionary Process, University Complutense, Madrid, Spain.
- 2000 Molecular Evolution, Marine Biological Laboratory, Woods Hole, MA, USA.
- 2007 Estimating Demographic Parameters From Genetic Data. La Fouly, Switzerland.
- 2008 Statistical and computational challenges in molecular phylogenetics and evolution. Royal Society of London, UK.