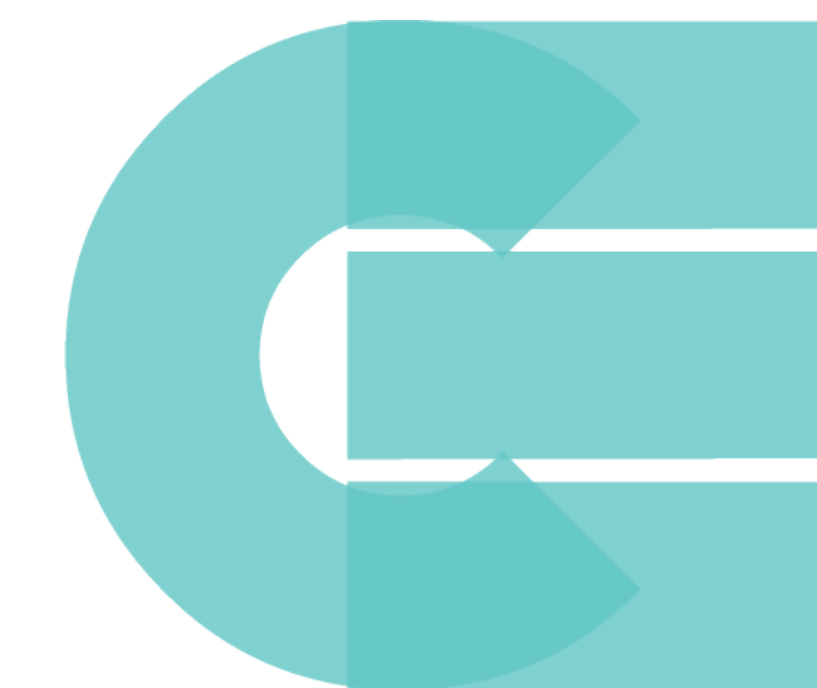


# Rodrigo Gonzalez-Romero



Postdoctoral Research Associate, Department of Biological Sciences  
Florida International University

## EDUCATION

November 2010- Ph.D. in Biology. University of A Coruña, Spain. Dr. J.M. Eirin-Lopez, advisor (Genetics, Evolution).

July 2007- M.S. in Genetics and Biochemistry University of A Coruña, Spain.

July 2005- B.S. in Biology (honors). University of A Coruña, Spain.

## RESEARCH INTERESTS

Marine Biology, Genotoxicology, Chromatin, Reproduction, Molecular Evolution, Genomics, Epigenetics.

## POSITIONS AND EMPLOYMENT

2012 - present Postdoctoral Researcher, "Spanish Ministry of Education" Fellow. Dept. Biochemistry and Microbiology, University of Victoria, BC Canada.  
Advisor: Dr. Juan Ausio.

2011 Research Assistant. Dept. Cellular and Molecular Biology, University of A Coruña, Spain.

2009/10 Visiting Scholar, Dept. Biochemistry and Microbiology, University of Victoria, BC Canada.

2005/10 Graduate student, Dept. Cellular and Molecular Biology, University of A Coruña, Spain.

## PEER REVIEWED JOURNAL PUBLICATIONS

2013 Suarez-Ulloa, V., Fernandez-Tajes, J., Aguiar-Pulido, V., Rivera-Casas, C., Gonzalez-Romero, R., Ausio, J., Mendez, J., Dorado, J. and Eirin-Lopez, J.M. The Chromevaloa database: a resource for the evaluation of okadaic acid contamination in the marine environment based on the chromatin-associated transcriptome of the mussel *Mytilus galloprovincialis*. *Marine Drugs* 11, 830-841.

2012 Gonzalez-Romero, R., Rivera-Casas, C., Frehlick, L.J., Mendez, J., Ausio, J., and Eirin-Lopez, J.M. Histone H2A (H2A.X and H2A.Z) variants in molluscs: molecular characterization and potential implications for chromatin dynamics. *PLoS ONE* 7, e30006.

2012 Gonzalez-Romero, R., Rivera-Casas, C., Fernandez-Tajes, J., Ausio, J., Méndez, J., and Eirin-Lopez, J.M. Chromatin specialization in bivalve molluscs: a leap forward for the evaluation of okadaic acid genotoxicity in the marine environment. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* 155, 175-181.

2010 Gonzalez-Romero, R., Rivera-Casas, C., Ausio, J., Mendez, J., and Eirin-Lopez, J.M. Birth-and-death long-term evolution promotes histone H2B variant diversification in the male germinal cell line. *Molecular Biology and Evolution* 27, 1802-1812.

2009 Gonzalez-Romero, R., Ausio, J., Mendez, J., and Eirin-Lopez, J.M. Histone genes of the razor clam *Solen marginatus* unveil new aspects of linker histone evolution in protostomes. *Genome* 52, 597-607.

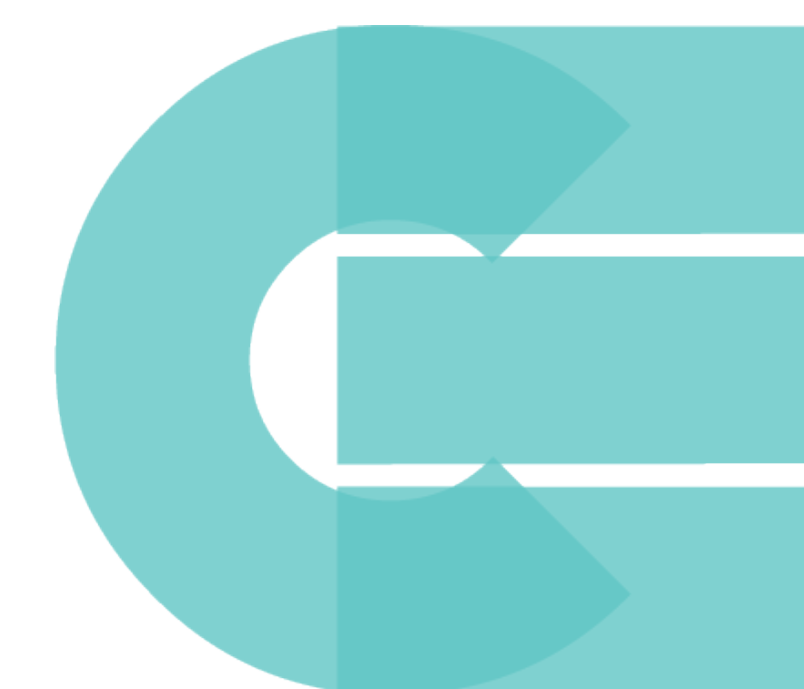
2009 Eirin-Lopez, J.M., Gonzalez-Romero, R., Dryhurst, D., Ishibashi, T., and Ausio, J. The evolutionary differentiation of two histone H2A.Z variants in chordates (H2A.Z-1 and H2A.Z-2) is mediated by a stepwise mutation process that affects three amino acid residues. *BMC Evolutionary Biology* 9, 31.

2008 Gonzalez-Romero, R., Mendez, J., Ausio, J., and Eirin-Lopez, J.M. Quickly evolving histones, nucleosome stability and chromatin folding: All about histone H2A.Bbd. *Gene* 413, 1-7.

2008 Gonzalez-Romero, R., Ausio, J., Mendez, J., and Eirin-Lopez, J.M. Early evolution of histone genes: prevalence of an 'orphon' H1 lineage in protostomes and birth-and-death process in the H2A family. *Journal of Molecular Evolution* 66, 505-518.

## PEER REVIEWED BOOKS AND BOOK CHAPTER PUBLICATIONS

2009 Eirin-Lopez, J.M., Gonzalez-Romero, R., Dryhurst, D., Mendez, J., and Ausio, J. Long-term evolution of histone families: old notions and new insights into their diversification mechanisms across eukaryotes. In "Evolutionary Biology: Concept, Modeling, and Application", P. Pontarotti, ed. (Berlin Heidelberg, Springer-Verlag), pp. 139-162.



## GRANTS

### Postdoctoral Researcher

2011 MICINN, Spanish Research Program. Specialization imparted by histone variants H2A.X y H2A.Z to chromatin in bivalve molluscs: protostome evolution and genotoxicity tests. CGL201124812, 36 months, \$125,000.

### Graduate Student

2010 Regional Government of Galicia, Spain. Study of the specialization imparted by histone variants to chromatin in bivalves. 10PXIB103077PR, 36 months, \$50,000.

2008 Spanish Ministry of Science and Innovation, Spanish Research Program. Study of the genotoxic effects of the marine biotoxin okadaic acid on mussel aquaculture industry. AGL2008-05346-C02-01, 36 months, \$150,000.

2006 Regional Government of Galicia, Spain. Identification of DNA markers in the clam *Venerupis pullastra* and application for genetic variability analysis and population structure. PGIDIT06RMA50101PR, 36 months, \$90,000.

## HONORS AND AWARDS

2012 "Spanish Ministry of Education" Competitive Postdoctoral Fellowship.

2012 Outstanding Ph.D. Award, University of A Coruña, Spain.

2010 Visiting Fellowship, Dept. Biochemistry and Microbiology, University of Victoria. Canada.

2009 Visiting Fellowship, Dept. Biochemistry and Microbiology, University of Victoria. Canada.

2009 UDC Ph.D. competitive Fellowship, University of A Coruña. UDC.

2008 Research Fellowship, Deputación de A Coruña (Local Government of A Coruña)

2006 Visiting Fellowship, Dept. Biochemistry and Microbiology, University of Victoria. Canada.

2006 UDC M.S. competitive Fellowship, University of A Coruña. UDC.

## EXTERNAL PRESENTATIONS AND SEMINARS

2012 Gonzalez-Romero, R. Characterization of histone variants in bivalve molluscs and their relevance in the development of chromatin-based tests for evaluating okadaic acid genotoxicity in the marine environment. Asilomar Chromatin and Chromosomes Conference. Pacific Grove, CA, USA. December.

2010 Gonzalez-Romero, R. Birth-and-death long-term evolution promotes histone H2B variant diversification in the male germinal cell line. Annual Meeting of the Society for Molecular Biology and Evolution (SMBE). Lyon, France. July.

2009 Gonzalez-Romero, R., and Eirin-Lopez, J.M. The evolutionary differentiation of two histone H2A.Z variants in chordates (H2A.Z-1 and H2A.Z-2) is mediated by a stepwise mutation process that affects three amino acid residues. Annual Meeting of the Society for Molecular Biology and Evolution (SMBE). Iowa City, IA, USA. June.

2008 Gonzalez-Romero, R., and Eirin-Lopez, J.M. Long-term evolution of the histone H2A family mediated by a Birth-and-death process. 13th Evolutionary Biology Meeting at Marseilles, France. September.

## TEACHING EXPERIENCE

2009-2010 B.S. in Biology- Majors. Teaching Assistant: Genetics. University of A Coruña, A Coruña, Spain.

## PROFESSIONAL MEMBERSHIP

Society for Molecular Biology and Evolution (SMBE), Spanish Society of Genetics (SEG).

## PROFESSIONAL WORKSHOPS

2008 DNA Phylogenies and Genealogies: Inference and Applications. University of Barcelona, Spain.

## SCIENCE OUTREACH

2011 Gonzalez-Romero, R., J. Mendez, J. Ausio, and Eirin-Lopez, J.M. "The key role of histones". Investigación y Ciencia, Spanish edition of Scientific American.