

CURRICULUM VITAE

Fernando Rodriguez, Ph.D.

Research Scientist
Adjunct Faculty
College of Science
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EDUCATION

- | | | |
|------|--|---------------------------|
| 2009 | Ph.D. Biology, Molecular Biology and Biochemistry Program
Advisors: Dr. Ana Dominguez Sanjurjo and Dr. Trinidad Perez Mendez | Oviedo University (Spain) |
| 2004 | M.Sc. in Biology
Advisor: Dr. Ana Dominguez Sanjurjo | Oviedo University (Spain) |
| 2002 | BS, Biology (Molecular Biology and Biotechnology) | Oviedo University (Spain) |

APPOINTMENTS

- | | | |
|-------------|---|--|
| 2024 - | Research Scientist
Adjunct Faculty | Thomas H. Gosnell School of Life Sciences, Rochester Institute of Technology, NY (USA) |
| 2018 - 2024 | Research Scientist | Josephine Bay Paul Center, Marine Biological Laboratory, Woods Hole, MA (USA) |
| 2015 - 2018 | Research Associate | Josephine Bay Paul Center, Marine Biological Laboratory, Woods Hole, MA (USA) |
| 2010 - 2015 | Postdoctoral Scientist | Josephine Bay Paul Center, Marine Biological Laboratory, Woods Hole, MA (USA) |
| 2004 - 2009 | Research Assistant | Oviedo University (Spain) |

PUBLICATIONS (PDF copies available at <https://rodriguezf.org/cv>)
(** indicates publication of special relevance, undergraduate authors are underlined)

In Preparation

[24] Yushenova I, **Rodriguez F**, Wilkinson M, Metzger B, Gladyshev E, Zhang F, Arkhipova I. *In Preparation*. Reverse transcriptase-related genes at the intersection of stress response pathways.

Original Research in Peer-Reviewed Journals

[23] Peredo EL, Kulp R, **Rodriguez F**, Weintraub MN, Anand M, Bixler S, Koller J, Lee C, Mathai D, Tuytschaevers S, Kumar G. 2026. Metagenome-assembled genomes from biological soil crusts in sandy sediments of Kitty Todd Nature Preserve, OH, USA. **Microbiology Resource Announcements** 0:e00380-26. <https://doi.org/10.1128/mra.00380-26>

[22] Nowell R, **Rodriguez F, Hecox-Lea B, Arkhipova I, Mark Welch D, Barraclough T, Wilson C. 2024. Bdelloid rotifers deploy biosynthetic genes acquired from bacteria against attack by pathogenic fungi. **Nature Communications** 15, 578. <https://doi.org/10.1038/s41467-024-49919-1>

Significance: In this paper, we report the activation of complex genes in bdelloid rotifers that code for antibiotics. When rotifers are exposed to fungal infection, they switch on hundreds of genes acquired from bacteria and other microbes. <https://www.the-microbiologist.com/news/small-animals-acquire-genes-from-bacteria-that-can-produce-antibiotics/3639.article>

[21] Arkhipova I, Yushenova I, **Rodriguez F**. 2023. Shaping eukaryotic epigenetic systems by horizontal gene transfer. **Bioessays** 45:e2200232. <https://doi.org/10.1002/bies.202200232>

[20] **Rodriguez F**, Arkhipova IR. 2023. An overview of best practices for transposable element identification, classification, and annotation in eukaryotic genomes. In: Branco, M.R., de Mendoza Soler, A. (eds) **Transposable Elements. Methods in Molecular Biology** vol 2607. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-2883-6_1

[19] Darras H, De Souza Araujo N, Baudry L, Guiglielmoni N, Lorite P, Marbouty M, **Rodriguez F**, Arkhipova I, Koszul R, Flot J-F, Aron S. 2022. Chromosome-level genome assembly and annotation of two lineages of the ant *Cataglyphis hispanica*: stepping stones towards genomic studies of hybridogenesis and thermal adaptation in desert ants. **Peer Community Journal** vol 2. <https://doi.org/10.24072/pcjournal.140>

** [18] **Rodriguez F**, Yushenova IA, DiCorpo D, Arkhipova IR. 2022. Bacterial N4-Methylcytosine as an epigenetic mark in eukaryotic DNA. **Nature Communications** 13, 1072. <https://doi.org/10.1038/s41467-022-28471-w>

Significance: In this paper we report a new DNA modification system, previously unknown in eukaryotes, captured from bacteria. We propose it has a role in transposon domestication. Altimetric 180. Over 20 news outlets reported this research <https://nature.altmetric.com/details/123800850/news>

[17] Kalendar R, Sabot F, **Rodriguez F**, Karlov GI, Natali L, Alix K. 2021. Editorial: mobile elements and plant genome evolution, comparative analyzes and computational tools. **Frontiers of Plant Sciences** 12, 735134. <https://doi.org/10.3389/fpls.2021.735134>

[16] Craig RJ, Yushenova IA, **Rodriguez F**, Arkhipova IR. 2021. An ancient clade of Penelope-like retroelements with permuted domains is present in the green lineage and protists, and dominates many invertebrate genomes. **Molecular Biology and Evolution** 38, 5005–5020. <https://doi.org/10.1093/molbev/msab225>

[15] †Schön I, †**Rodriguez F**, Dunn M, Martens K, Shribak M, Arkhipova IR. 2021. A survey of transposon landscapes in the putative ancient asexual ostracod *darwinula stevensoni*. **Genes** 12, 401. <https://doi.org/10.3390/genes12030401> . †Authors contributed equally to this work.

[14] Nowell RW, Wilson CG, Almeida P, Schiffer PH, Fontaneto D, Becks L, **Rodriguez F**, Arkhipova IR, Barraclough TG. 2021. Evolutionary dynamics of transposable elements in bdelloid rotifers. **eLife** 10, e63194. <https://doi.org/10.7554/eLife.63194>

[13] Vakhrusheva OA, Mnatsakanova EA, Galimov YR, Neretina TV, Gerasimov ES, Naumenko SA, Ozerova SG, Zalevsky AO, Yushenova IA, **Rodriguez F**, Arkhipova IR, Penin AA, Logacheva MD, Bazykin GA, Kondrashov AS. 2020. Genomic signatures of recombination in a natural population of the bdelloid rotifer *Adineta vaga*. **Nature Communications** 11, 6421. <https://doi.org/10.1038/s41467-020-19614-y>

[12] Sharko FS, Nedoluzhko AV, Lê BM, Tsygankova SV, Boulygina ES, Rastorguev SM, Sokolov AS, **Rodriguez F**, Mazur AM, Polilov AA, Benton R, Evgen'ev MB, Arkhipova IR, Prokhortchouk EB, Skryabin KG. 2019. A partial genome assembly of the miniature parasitoid wasp, *Megaphragma amalphantum*. **PLOS ONE** 14, e0226485. <https://doi.org/10.1371/journal.pone.0226485>

[11] **Rodriguez F**, Arkhipova IR. 2018. Transposable elements and polyploid evolution in animals. **Current Opinion in Genetics & Development, Genome Architecture and Expression** 49, 115–123. <https://doi.org/10.1016/j.gde.2018.04.003>

[10] Pérez T, **Rodriguez F**, Fernández M, Albornoz J, Domínguez A. 2017. Ancient mitochondrial pseudogenes reveal hybridization between distant lineages in the evolution of the *Rupicapra* genus. **Gene** 628, 63–71. <https://doi.org/10.1016/j.gene.2017.07.035>

[9] Arkhipova IR, Yushenova IA, **Rodriguez F. 2017 Giant reverse transcriptase-encoding transposable elements at telomeres. **Molecular Biology and Evolution** 34(9):2245-2257. <https://doi.org/10.1093/molbev/msx159>

Significance: We proposed that the newly discovered DNA sequences can protect chromosome ends in rotifers. Findings may have implications for aging research. <https://www.eurekalert.org/news-releases/745538>

[8] **Rodriguez F**, Kenefick AW, Arkhipova IR. 2017. LTR-Retrotransposons from bdelloid rotifers capture additional ORFs shared between highly diverse retroelement types. **Viruses** 11;9(4). <https://doi.org/10.3390/v9040078>

** [7] **Rodriguez F**, Arkhipova IR. 2016. Multitasking of the piRNA silencing machinery: targeting transposable elements and foreign genes in the bdelloid rotifer *Adineta vaga*. **Genetics** 203, 255–268. <https://doi.org/10.1534/genetics.116.186734>

*Significance: The genome of the bdelloid rotifer Adineta vaga is characterized by massive horizontal gene transfer, low transposon content, and highly diversified RNA-mediated silencing machinery. Selected article in **Genetics Spotlight 2016** of the GSA. <https://genestogenomes.org/2016-genetics-spotlight/>*

[6] Arkhipova IR, Yushenova IA, **Rodriguez F**. (2013). Endonuclease-containing Penelope retrotransposons in the bdelloid rotifer *Adineta vaga* exhibit unusual structural features and play a role in expansion of host gene families. **Mobile DNA** 4:19. <https://doi.org/10.1186/1759-8753-4-19>

** [5] Flot J-F, Hespeels B, Li X, Noel B, Arkhipova I, Danchin EGJ, Hejnol A, Henrissat B, Koszul R, Aury J-M, Barbe V, Barthélémy R-M, Bast J, Bazykin GA, Chabrol O, Couloux A, Da Rocha M, Da Silva C, Gladyshev E, Gouret P, Hallatschek O, Hecox-Lea B, Labadie K, Lejeune B, Piskurek O, Poulain J, **Rodriguez F**, Ryan JF, Vakhrusheva OA, Wajnberg E, Wirth B, Yushenova I, Kellis M, Kondrashov AS, Mark Welch DB, Pontarotti P, Weissenbach J, Wincker P, Jaillon O, Van Doninck K, 2013. Genomic evidence for ameiotic evolution in the bdelloid rotifer *Adineta vaga*. **Nature** 500, 453–457. <https://doi.org/10.1038/nature12326>

Significance: The genome analysis of bdelloid rotifers offers key insights of the evolution without sex. Altmetric 151, covered in 11 news outlets. <https://nature.altmetric.com/details/1638293/news>

[4] Arkhipova IR, **Rodriguez F**. 2013. Genetic and epigenetic changes involving (retro)transposons in animal hybrids and polyploids. **Cytogenetic and Genome Research** 140, 295–311. <https://doi.org/10.1159/000352069>

[3] **Rodriguez F**, Pérez T, Hammer SE, Albornoz J, Domínguez A. 2010. Integrating phylogeographic patterns of microsatellite and mtDNA divergence to infer the evolutionary history of chamois (genus *Rupicapra*). **BMC Evolutionary Biology** 10, 222. <https://doi.org/10.1186/1471-2148-10-222>

[2] **Rodriguez F**, Hammer S, Pérez T, Suchentrunk F, Lorenzini R, Michallet J, Martinkova N, Albornoz J, Domínguez A. 2009. Cytochrome b phylogeography of chamois (*Rupicapra* spp.). population contractions, expansions and hybridizations governed the diversification of the genus. **Journal of Heredity** 100, 47–55. <https://doi.org/10.1093/jhered/esn074>

[1] **Rodriguez F**, Albornoz J, Domínguez A. 2007. Cytochrome b pseudogene originated from a highly divergent mitochondrial lineage in genus *Rupicapra*. **Journal of Heredity** 98, 243–249. <https://doi.org/10.1093/jhered/esm013>

REVIEWS, ARTICLES, BOOK CHAPTERS

[4] **Rodriguez F**, Arkhipova I. 2016. Multitasking of the piRNA silencing machinery: targeting transposable elements and foreign genes in the bdelloid rotifer *Adineta vaga*. **Genetics Spotlight 2016**.
<https://genestogenomes.org/2016-genetics-spotlight/>

[3] Ana Domínguez Sanjurjo, **Fernando Rodriguez Vazquez**, Jesús Albornoz Pons, Trinidad Pérez Méndez. 2009, El rebeco cantábrico, filogeografía e historia evolutiva. In: El Rebeco Cantábrico (*Rupicapra pyrenaica parva*), "Conservación y gestión de sus poblaciones". Edited by Pérez-Barbería, F.J. & Palacios, B. Colección Naturaleza y Parques Nacionales. Serie Técnica.

[2] **Rodriguez F**, Hammer S, Pérez T, Suchentrunk F, Lorenzini R, Michallet J, Martinkova N, Albornoz J, Domínguez A. (2008). Cytochrome b phylogeography of chamois (*Rupicapra* spp.): Population contractions, expansions and hybridizations characterize the diversification of the genus. 82nd Annual Meeting of the German Society of Mammalogy. Vienna, 14-18 September 2008. Mammalian Biology. 73 [Suppl. 1]: 16.

[1] Domínguez A and **Rodriguez F**. 2004. Beef traceability based on DNA fingerprinting. Feedinfo News Service.

TEACHING AND MENTORING EXPERIENCE

Teaching certifications

- 2024 Inclusive Practices Cohort at College of Science, Rochester Institute of Technology.
- 2004 Master in Education (250h) Pedagogical Training for Secondary and Upper Secondary School Education, Vocational Training and Languages (Certificate of Pedagogical Aptitude).

Invited Lecturer

- 2025 Invited Speaker Bioinformatics Club, Rochester Institute of Technology, NY (USA).
- 2025 Invited Lecturer Molecular Biology (BIOL-206) Computational Methods, Rochester Institute of Technology, NY (USA).
- 2024 Invited Lecturer at Molecular Biology (BIOL-206) Computational Methods, Rochester Institute of Technology, NY (USA).
- 2024 The Georgia Gosnell Seminar Speaker, Rochester Institute of Technology, NY (USA).

Undergraduate/MSc Teaching

- 2026 Bioinformatics Algorithms BIOL-530/630 3 credits, Rochester Institute of Technology, NY (USA).
- 2025 Introduction to Biology Laboratory: Organisms and Ecosystems BIOL-125 1 credit, Rochester Institute of Technology, NY (USA).
- 2025 Bioinformatics Algorithms BIOL-530/630 3 credits, Rochester Institute of Technology, NY (USA).
- 2024 Bioinformatics Algorithms BIOL-530/630 3 credits, Rochester Institute of Technology, NY (USA).
- 2008 Lecturer (invited speaker) in MSc Courses, Oviedo University (Spain).
- 2005 Lecturer in Biotechnology applied to plant breeding and conservation and Conservation and genetic characterization of plant resources (University Oviedo, Spain).

High School Research Mentoring

- 2024 **Karun Kulamavalavan**, ISEF student, New Rochelle High School (New York). Project: Quantitative analysis of heat shock gene expression in seagrass populations using RT-PCR assay.
- 2022 **Feodor Morozov**, Lexington High School (Massachusetts). Project: Protein priming activity in domesticated reverse transcriptase.
- 2022 **Adilya Sunyaev**, Newton South High School (Massachusetts). Project: Cryoconservation and freeze resistance of bdelloid rotifers.

Undergraduate Research Mentoring (peer-reviewed publications are indicated)

- 2025 **Rachel Kulp**, Rochester Institute of Technology. Project: Microbial metagenome analysis in soil crust ([Peredo, Kulp, Rodriguez et al., 2026](#))
- 2024 **Francesca Molee**, Rochester Institute of Technology. Project: Stress response in algae from retention/non-retention sites.
- 2022 **Daniel Pugatch**, University of Massachusetts. Project: Development of optimal conditions to produce soluble recombinant proteins from aquatic animals for functional assays.
- 2021 **Ahmad Alkhatin**, Brown University. Project: Identification of rotifer repeat elements in metagenomes.
Anton Tarazi, Brown University. Project: Identification of rotifer genome components in permafrost.
- 2020 **Bridget Beaudoin**, University of Massachusetts. Project: Identification of rotifer genome components in metagenomes.
Matthew Dunn, University of Massachusetts. Project: Transposon Analysis in *Darwinula stevensoni* ([Rodriguez et al., 2021](#)).
- 2019 **Samuel Maffa**, Brown University. Project: Function of reverse transcriptase-related (rvt) genes in metal stress response.
- 2018 **Bria Metzger**, Brown University. Project: Role of reverse transcriptase-related (rvt) genes in metal stress response ([Yushenova, Rodriguez et al., In Preparation](#))
- 2017 **Jonathan N. Dow**, Brown University. Project: Mini-Mu vector design and in vitro cloning of circular bdelloid rotifer transposition intermediates.
Brandon M. Le, Brown University. Project: Annotation of repeat regions in the miniature parasitoid wasp *Megaphragma amalphanum* ([Sharko et al., 2019](#)).
Katherine Dunham, Brown University. Project: Purification of reverse transcriptase-related (rvt) gene in *Neurospora crassa*.
Laura Swain, University of Chicago. Project: Identifying extrachromosomal intermediates of transposition in bdelloid rotifers
- 2016 **Samantha Spear**, Brown University. Project: *Neurospora* mutagenesis and selection of rvt-gene related pathways.
Brandon M. Le, Brown University. Project: Genome transposon analysis benchmarking.
Vishok Srikanth, University of Chicago. Project: Domain structure of reverse transcriptase-related proteins.
- 2015 **Tatsiana Mello**, Wellesley College. Project: *In vitro* activity of reverse transcriptase-related (rvt) genes.
- 2014 **Aubrey W. Kenefick**, Williams College. Project: Analysis of LTR-Retrotransposons in bdelloid rotifers ([Rodriguez et al., 2017](#)).

2013 **Daniel DiCorpo**, Brown University. Project: Detection of methylated DNA in bdelloid rotifers (Rodriguez *et al.*, 2022).

Graduate Research Mentoring

- 2024- **Andrew Alford**, Rochester Institute of Technology. MSc Thesis: DNA methylation variation and demethylation effects in Rotifers.
- 2024- **Yelle Vandenboer**, Institute of Natural Sciences, Brussels (Belgium). PhD Thesis: Transposons in Ostracod Evolution.
- 2010-2012 **Anupriya Dutta**, Brown University. PhD Thesis: Purification and analysis of small RNAs in bdelloid rotifers.

PROFESSIONAL SERVICE

Invited Reviewer for:

BMC Biology, BMC Plant Biology journal, PeerJ, Molecular Biology and Evolution, Scientific Reports, Frontiers in Microbiology, Nucleic Acid Research, Mobile DNA, Hydrobiologia.
<http://www.webofscience.com/wos/author/record/E-9392-2013>

Invited Guest Associate Editor for:

- Frontiers in Plant Systems and Synthetic Biology (Research topic: Mobile Elements and Plant Genome Evolution, Comparative Analyses and Computational Tools).
- Genes (Basel).

Editorial Board Member for Microbiology Resource Announcements

- <https://journals.asm.org/journal/mra/board-editors>

NSF panelist (2025)

Memberships:

- The Genetics Society of America.
- AAAS/Science membership. Full membership in AAAS (the American Association for the Advancement of Science) sponsored by AAAS/Science Program for Excellence in Science (2 years full membership).
- The Marine Biological Laboratory (MBL) Society.
- The Global Invertebrate Genomics Alliance (GIGA).
- The National Shellfisheries Association.

MEETINGS AND CONFERENCES PRESENTATIONS AS LEAD AUTHOR

(** indicates Invited Speaker)

[30] Integrating environmental drivers, phenology, and gene expression to understand flowering and seed production in *Zostera marina*. **Rodriguez F**, Peredo EL, Moreira-Saporiti A, Dixon G, Merolla S, Teichberg M. Botany 2025, Palm Springs, California, USA, 2025

** [29] Advances in transposable element annotation for genome analysis in aquaculture species of interest. **Rodriguez F**. Aquaculture 2025, World Aquaculture Society, New Orleans, Louisiana, USA, 2025.

- [28] Optimization of electroporation conditions for a suite of Chlorophyte algae. **Rodriguez F**, Sena M, Morrison C, Peredo EL. Botany. Grand Rapids, Michigan, USA, 2024.
- [27] Comparing the transposon landscapes of a putative ancient asexual and a sexual non-marine ostracod (Crustacea, Arthropoda). **Rodriguez F**, Arkhipova I, Martens K, and Schön I. ENvironmental cHANGES, Conservation biology, and Evolution – ENHANCE (online), 2024.
- [26] Comparing the transposon landscapes of a putative ancient asexual and a sexual non-marine ostracod (Crustacea, Arthropoda). **Rodriguez F**, Arkhipova I, Martens K, and Schön I. International Congress on Transposable Elements – ICTE, Saint Malo, France, 2024.
- ** [25] Overview of transposable element identification, classification, and annotation for a better epigenetic landscape generation in non-model eukaryotic genomes. **Rodriguez F**, Arkhipova I. National Shellfisheries Association 115 Annual Meeting, Baltimore, MD, USA, 2023.
- [24] Bacterial N4-methylcytosine as an epigenetic mark in eukaryotic DNA. **Rodriguez F**, Yushenova I, Arkhipova I. Transposable Elements, CSHL, Cold Spring Harbor, NY, USA, 2022.
- [23] Non-canonical base modifications of bacterial origin as an epigenetic mark in eukaryotic DNA. **Rodriguez F**, Yushenova I, Arkhipova I. EPIMAR – Epigenetics in Marine Biology Conference, Woods Hole, MA, USA, 2022.
- [22] Epigenetic regulation in aquatic micro-invertebrates: a non-canonical system of bacterial origin. **Rodriguez F**, Yushenova I, Arkhipova I. Aquaculture, San Diego, MA, USA, 2022.
- [21] An ancient clade of Penelope-like retroelements with permuted domains is present in many invertebrate genomes with exceptionally high copy numbers. **Rodriguez F**, Craig R, Yushenova I, Arkhipova I. The Mobile DNA Conference (FASEB), virtual, 2021.
- ** [20] Non-canonical epigenetic system of bacterial origin in aquatic micro-invertebrates. **Rodriguez F**, Yushenova I, Arkhipova I. National Shellfisheries Association 113 Annual Meeting, virtual, 2021.
- [19] Transposon Landscapes in the Putative Ancient Asexual Ostracod *Darwinula stevensoni*. **Rodriguez F**, Schön I, Dunn M, Martens K, Shribak M, Arkhipova I. 4th Uppsala Transposon Symposium, virtual, 2020.
- **[18] Non-canonical epigenetic system of bacterial origin in aquatic micro-invertebrates. **Rodriguez F**, Yushenova I, Arkhipova I. National Shellfisheries Association 112 annual Meeting (canceled due to COVID-19), Baltimore, MD, USA, 2020.
- [17] Non-canonical base modifications of bacterial origin in a eukaryotic genome. **Rodriguez F**, Yushenova I, Arkhipova I. The Mobile DNA Conference (FASEB), Palm Springs, CA, USA, 2019.
- [16] Transposon silencing and non-canonical base modifications of bacterial origin in a eukaryotes. **Rodriguez F**, Yushenova I, Arkhipova I. Mobile Genetic Elements in Woods Hole, MA, USA, 2019.
- [15] The epigenetic landscape in the bdelloid rotifer *Adineta*. **Rodriguez F**, Arkhipova I. Transposable Elements, CSHL, Cold Spring Harbor, NY, USA, 2018.
- [14] The epigenetic landscape in the bdelloid rotifer *Adineta*. **Rodriguez F**, Arkhipova I. GIGA III, Global Invertebrate Genomics Alliance, Curacao, 2018.
- [13] N6-methyladenine and N4-methylcytosine: amino-methylation as an epigenetic mark in rotifers. **Rodriguez F**, Arkhipova I. Mobile Genetic Elements in Woods Hole, MA, USA, 2017.
- [12] N6-methyladenine and N4-methylcytosine base modifications are broadly distributed in the bdelloid *rotifer Adineta*. **Rodriguez F**, Arkhipova I. Transposable Elements, CSHL, Cold Spring Harbor, NY, USA, 2016.

- [11] Transposable elements in the bdelloid rotifer *Adineta vaga*: how to invite them to a party but not let them spoil it. **Rodriguez F**, Arkhipova I. Mobile Genetic Elements in Woods Hole, MA, USA, 2015.
- [10] piRNA-mediated silencing in the bdelloid rotifer *Adineta vaga* targets transposons as well as genes of foreign origin. **Rodriguez F**, Arkhipova I. Regional Meeting on Mobile Genetic Elements, CSHL, Cold Spring Harbor, NY, USA, 2013.
- [9] An increase in relative abundance of pi-like RNAs in response to ionizing radiation in the bdelloid rotifer *Adineta vaga*. **Rodriguez F**, Arkhipova I. Genomic Impact of Eukaryotic Transposable Elements, Asilomar, CA, USA, 2012.
- [8] Initial characterization of PIWI-interacting RNAs in *Adineta vaga*. **Rodriguez F**, Arkhipova I. North East Mobile Genetic Element Meeting, Woods Hole, MA, USA, 2011.
- [7] Microsatellite and mt-DNA phylogenies of the chamois (genus *Rupicapra*) and taxonomic implications. **Rodriguez F**, Pérez T, Hammer S, Albornoz J, Domínguez A. V World Conference on Mountain Ungulates, Granada, Spain, 2009.
- [6] Diversification of the chamois (genus *Rupicapra*). Discordance between microsatellite and mt-DNA phylogenies. **Rodriguez F**, Pérez T, Hammer S, Albornoz J, Domínguez A. XII Congress European Society for Evolutionary Biology, Turin, Italy, 2009
- [5] Filogeografía y diversificación del género *Rupicapra*. **Rodriguez F**, Hammer S, Pérez T, Suchentrunk F, Lorenzini R, Michallet J, Martinkova N, Albornoz J, Domínguez A. XVII Seminario de Genética de Poblaciones y Evolución, Ribadesella, Spain, 2008.
- [4] Cytochrome b Phylogeography of Chamois (*Rupicapra* spp.): Population Contractions, Expansions and Hybridizations characterize the Diversification of the Genus. **Rodriguez F**, Hammer S, Pérez T, Suchentrunk F, Lorenzini R, Michallet J, Albornoz J, Domínguez A. 82nd Annual meeting of the German Society of Mammalogy, Vienna, Austria, 2008.
- [3] Filogeografía mitocondrial del rebeco (*Rupicapra* spp.) basada en el citocromo b. **Rodriguez F**, Hammer S, Pérez T, Suchentrunk F, Lorenzini R, Michallet J, Albornoz J, Domínguez A. XXXVI Congreso de la Sociedad Española de genética, León, Spain, 2007.
- [2] Mitochondrial Phylogeography of chamois (*Rupicapra* spp.) based on cytb. **Rodriguez F**, Hammer S Pérez T, Suchentrunk F, Lorenzini R, Michallet J, Albornoz J, Domínguez A. XI Congress European Society for Evolutionary Biology, Uppsala, Sweden, 2007.
- [1] Evolución del gen citocromo b y su correspondiente pseudogen nuclear en el rebeco (*Rupicapra* spp.). **Rodriguez F**, Albornoz J, Domínguez A. XXXV Congreso de la Sociedad Española de genética, Almería, Spain, 2005.

WORKSHOPS

- 2025 - How can plant biotechnology advance seagrass conservation? Woods Hole, MA, USA.
- 2019 - Hydra Workshop: Resources and information for using *Hydra* as a model system. Woods Hole, MA, USA.
- 2013 - Writing about Science for the Public: A Hands-On Workshop for Scientists. Woods Hole, MA, USA.
- 2013 - GMOD Summer School. GMOD component installation, configuration, and usage (GBrowse, JBrowse, Galaxy, MAKER, Tripal, WebApollo, and Chado). NESCent. Durham, NC, USA.
- 2013 - Statistical Analysis and Graphics with R. MBL. Woods Hole, MA, USA.
- 2011 - CCV Bioinformatics Workshop. Brown University, RI, USA.
- 2011 - Genome Assembly Special Forces Workshop. Brown University, RI, USA.
- 2010 - Next-Generation Sequencing Data Analysis. Brown University, RI, USA.
- 2010 - Programmatic Access to Biological Databases (Perl). EMBL-EBI. Hinxton, UK.

SELECTED PRESS

- Genetics Spotlight 2016: Selected Article “Multitasking of the piRNA silencing machinery: targeting transposable elements and foreign genes in the bdelloid rotifer *Adineta vaga*”. Genetics 203, 255–268. <https://genestogenomes.org/2016-genetics-spotlight/>
- EUREKA ALERT: Newly discovered DNA sequences can protect chromosomes in rotifers. <https://www.eurekalert.org/news-releases/745538>
- The Scientist: Bacterial enzyme keeps rotifers' transposable elements in check. <https://www.the-scientist.com/news-opinion/bacterial-enzyme-keeps-rotifers-transposable-elements-in-check-69766>
- EUREKA ALERT: MBL team discovers new DNA modification system in animals, captured from bacteria more than 60 MYA. <https://www.eurekalert.org/news-releases/944730>
- Marine Biological Laboratory: MBL team discovers new DNA modification system in animals, captured from bacteria. <https://www.mbl.edu/news/mbl-team-discovers-new-dna-modification-system-animals-captured-bacteria>
- The Microbiologist: Small animals acquire genes from bacteria that can produce antibiotics. <https://www.the-microbiologist.com/news/small-animals-acquire-genes-from-bacteria-that-can-produce-antibiotics/3639.article>

WEBSITES

Rochester Institute of Technology <https://www.rit.edu/science/directory/frvsbi-fernando-rodriguez>
 ORCID <https://orcid.org/0000-0003-4044-8734>
 WordPress <https://rodriguezf.org/>
 Google Scholar <https://scholar.google.com/citations?user=2nk7Gt8AAAAJ&hl=en>
 Web of Science <https://www.webofscience.com/wos/author/record/E-9392-2013>