

JOSÉ ANTONIO FERNÁNDEZ ROBLEDO, Ph.D.

January 20, 2026

CONTACT INFORMATION

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Current Appointment

Senior Research Scientist at Bigelow Laboratory for Ocean Sciences
Research Scientist at Colby College
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Research Gate ([Link](#))

Current USA Immigration Visa Status
USA citizen

EDUCATION

- 1987 Licentiate in Biology, (Molecular Biology), University of Santiago de Compostela, Spain
- 1988 MS, Fish Pathology and Aquaculture, University of Santiago de Compostela, Spain
- 1994 PhD, Biochemistry and Molecular Biology, University of Santiago de Compostela, Spain
Program of Marine Biology and Aquaculture, "Parasites of the blue mussel, *Mytilus galloprovincialis* Lmk. experimentally cultured in Ría de Vigo: Epizootiology, histopathology, and defense mechanisms". Mentor: Antonio Figueras Huerta

POSTGRADUATE EDUCATION AND TRAINING

1995-1996 Post-Doctoral Fellow CSIC at COMB, UMBI

Scholarships and Fellowships

- 1983/1984, 1984/1985, 1985/1986
Undergraduate Fellow of Ministry of Education and Science
- 1986/1987 Undergraduate Fellow of INAPE, Department of Microbiology and Parasitology, Faculty of Pharmacy, University of Santiago de Compostela, Spain, course
- 1988 Undergraduate Fellow of Dirección Xeral de Formación e Promoción Social da Consellería de Pesca, "Fish Farming", Centro de Investigación Couso-Ribeira, Spain
- 1990-1992 Undergraduate Fellow of Diputación Provincial de Pontevedra, IIM -CSIC, Vigo, Spain
- 1991 Undergraduate Fellow of Foundation CAIXA GALICIA, IFREMER-La Tremblade, France
- 1992-1994 Undergraduate Fellow. Xunta de Galicia, IIM-CSIC, Vigo, Spain

Other Training

- 1987/1988 Course of informatics. University of Santiago de Compostela, Spain
- 1989 Techniques on Aquaculture and Culture of Mollusks Bivalves. Santa Cruz de Liáns-Oleiros, March Center of formation on Aquaculture-Fundación Municipal de Cultura, La Coruña, Spain

1989	Course of Genetic in Microorganisms: Introduction to Genetic Engineering, July, Institute of Cell Science –CSIC, Valencia, Spain
1990	Seminary about Culture of mollusks bivalves in Spain. Institute of Marine Sciences-CSIC. Vigo, Spain
1990	Seminar "The Human Genome: New Opportunities, New Dilemmas". August, International University Menéndez Pelayo. Magdalena's Palace, Santander, Spain
1991	Course on Pathology of Marine Organisms. July, University of Vigo, Spain
1991	Third international workshop on Bonamiasis and related disease problems of oysters. Dept. of the Marine, Fisheries Research Center, Dublin, Ireland
1991	Workshop on <i>Bonamia ostreae</i> . IFREMER-La Tremblade, France
2004	Lecture "Starting your Own Lab- The Do's and Don'ts" by Russell J. DiGate, Ph.D. Professor and Associate Dean for Research, School of Pharmacy 29 April
2005	Course "MBL-TIGR Advances in Genome Technology & Bioinformatics", October 3-29, Woods Hole, Massachusetts
2007	DOT-IATA Shipping Certificate. December

Scholar Awards and Certificates

- Certificate of Appreciation. UMBI, November 30, 2005.
- Award Medal "Insignia" from the National Counsel for the Scientific Research (CSIC), 1995, Spain.
- Award "1994 Investigation Award" title "Diseases of commercially important mollusks from the Vigo Bay", presented by José-Antonio Fernández-Robledo and Antonio Figueras Huerta in Excelentísima Diputación de Pontevedra, Spain.

Patents

- Vasta, GR, Marsh, AM, Robledo, JAF, Coss, CA, Wright, AC. Assay for *Perkinsus* in Shellfish. U.S. patent application number 08/900,117, awarded December 2001.
- Robledo, JAF, Vasta, GR. 2008. *Perkinsus* as a system for the production of recombinant proteins. Final patent pending.
- Robledo, JAF, Vasta, GR. 2008. A transfection system for *Perkinsus* species.
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EMPLOYMENT HISTORY

Academic Appointments

1995 – 1997	Postdoctoral Associate, COMB, UMBI
1997 – 2005	Research Associate, COMB, UMBI
2005 – 2009	Research Assistant Professor, COMB, UMBI
2010 – 2012	Assistant Professor, UMB-SOM, IMET
2012 – Present	Senior Research Scientist, Bigelow Laboratory for Ocean Sciences
2013 – Present	Research Scientist at Colby College
2022 – Present	Affiliate Faculty – The Roux Institute at Northeastern University

Professional Society Memberships

1984-1985	Mycological Society "Os Cogordos", Ourense (Spain)
1998-2012	Smithsonian Institution
2002-2004	National Shellfisheries Association
1999-2010	American Association for the Advancement of the Science
2007-2010	Baltimore-Washington Malaria Group
2012-present	American Society of Microbiology
2013-present	American Society of Parasitologists
2017	ECUSA

Honors and Awards

- 1994 Award "1994 Investigation Award" title "Diseases of commercially important mollusks from the Vigo Bay", presented by José-Antonio Fernández-Robledo and Antonio Figueras Huerta, Excelentísima Diputación de Pontevedra, Spain
- 1995 Award Medal "Insignia" from the National Counsel for the Scientific Investigation (CSIC), Spain
- 2005 Certificate of Appreciation. UMBI

Administrative Service

Institutional Service

- 2001-2002 Secretary of *Et al.* (Post-Doc and Technicians) Association at COMB
- 2003-2004 President of *Et al.* (Post-Doc and Technicians) Association at COMB
- 2007-2010 Grant reviewer - UMBI Intercenter Grants

Local and National Service

- 1993-1994 Red Cross, Vigo (Spain)
- 1999-2000 Grant reviewer - The Third World Science Foundation
- 2002 Scientific Committee of the 10th International Congress of Parasitology. Co-Chair the Genomics Session, August 4th to 9th 2002, Vancouver, Canada
- 2004 Reviewer for the Chapter "Parasitology of Pectinid Mollusks" in the book CYTED (Science and Technology Development), México
- 2007-Present Proposal Reviewer - INCITE, Xunta de Galicia, Spain
- Reviewer – Journal of Parasitology
- Reviewer – Disease of Aquatic Organisms
- Reviewer – Journal of Invertebrate Parasitology
- Reviewer – Aquatic Living Resources
- Reviewer – Fish and Shellfish Immunology
- Reviewer – Protist
- Reviewer – PLoS ONE
- Reviewer – Environmental Research
- Reviewer – Research and Reports in Biology
- Reviewer – Marine Ecology Progress Series
- Reviewer – International Journal of International Research and Public Health
- Reviewer – Parasites & Vectors
- Reviewer – Environmental Microbiology. Environmental Microbiology Reports
- Reviewer – Acta Tropica
- Reviewer – Bulletin of the European Association of Fish Pathologists
- 2014-Present Proposal Reviewer – European Commission, Research and Innovation
- 2014-Present Academic Editor PLoS One

Social Media

- Linkedin: Parasitology Interest Group (1,356 members; April 30, 2014)
- Parasitology Professionals (1,148 members; April 30, 2014)
- Infectious Diseases Group (10.292 members; April 30, 2014)

Research Gate [\(Link\)](#)

GRANT SUPPORT

Active Grants

- 2023-2027 Co-PI (1.0)
NSF-EEID
Collaboration grant: Quantifying and modeling the transmission dynamics of bivalve transmissible neoplasia

	\$2,997,443.00 (\$141,846)
2026-2027	PI President and Trustees of Colby College <u>USDA</u> Coast to Cow to Consumers: Marine algae use to enhance milk production mitigate greenhouse gas emissions and recover nutrients \$10,000,000 (CAA)
2026-2027	PI (1.0) <u>MARIA</u> Optimization of Algal-Based Media Supplements for Sustainable Marine Cellular Agriculture \$50,000
Pending	
2026-2029	PI (2.0) <u>USDA</u> Establishing oyster cell lines to advance aquaculture and pathogen research \$649,993
2027-2029	PI (2.0) <u>W. M. Keck Foundation (Phase I)</u> Decoding bivalve hematopoiesis: High-resolution spatial gene expression analysis \$1,000,000
Completed Grants	
2001-2003	Co-PI PI: Vasta, GR <u>Oyster Disease Research Program</u> : Epizootiology and pathogenicity of two <i>Perkinsus</i> species parasitizing the Eastern Oyster <i>Crassostrea virginica</i> <u>NOAA-SeaGrant ORDP</u> \$240,056
2002-2004	Co-PI PI: Vasta, GR <u>Oyster Disease Research Program</u> : "Susceptibility of <i>Crassostrea ariakensis</i> to <i>Bonamia</i> species: potential for increased disease transmission between oyster species" <u>NOAA-SeaGrant ORDP</u> \$210,000
2002-2004	Co-PI PI: Vasta, GR <u>Oyster Disease Research Program</u> : Identification of candidate genes for chemotherapeutic and/or genetic intervention against Dermo disease using expression sequence tags (EST) <u>NOAA-SeaGrant ORDP</u> \$254,323
2003-2005	Co-PI PI: Vasta, GR <u>Oyster Disease Research Program</u> : Infectivity and pathogenicity of recently described <i>Perkinsus</i> species present in the eastern oyster <i>Crassostrea virginica</i> <u>NOAA-SeaGrant ORDP</u> \$247,572
2003-2005	Co-PI PI: Gardner, MJ. (now El-Sajed, NM) J. Craig Venter Institute (former TIGR). <u>MCB-Microbial Genetics</u> : Genome sequencing of the protistan parasite <i>Perkinsus marinus</i> <u>NSF-USDA</u> \$1,656,540
2003-2006	Principal Investigator: Vasta, GR, Co-PI: Robledo, JAF . <u>NSF Program</u> : Intracellular survival of protistan parasites: Role(s) of the host and parasite

	transporter Slc11a in the competition for irons <u>NSF</u> \$451,620
2009-2011	PI (50%) <u>NIH (R21)</u> A heterologous expression system for Apicomplexa genes \$355,806
2008-2011	PI: Gerardo R. Vasta <u>NSF</u> A novel galectin type as a surface receptor for intracellular parasites \$450,000
2010-2013	Co-investigator (0%) PI: Gerardo R. Vasta <u>NSF</u> The role(s) of the cation transporter Nramp in the intracellular survival of protistan parasites \$457,384
2013-2016	Co-investigator PI: Ramunas Stepanauskas Co-Pi Peter Countway, David Emerson, Beth Orcutt <u>NSF</u> Acquisition of genome sequencers for Bigelow Laboratory for Ocean Sciences \$535,212
2015-2016	PI, Co-PI: Claudio H. Slamovits (Dalhousie University) <u>Gordon and Betty Moore Foundation</u> Genetic tools for laboratory culture screening for transformability and manipulation of dinoflagellates \$150,000
2017-2020	Co-PI <u>NSF-FSML</u> Modernizing the Flow and Imaging Cytometry Capabilities at Bigelow Laboratory for Ocean Sciences PI Nicole Poulton, Co-PI, José A. Fernández Robledo, Joaquín Martínez Martínez, Nicole Price, Steve Archer, Peter D. Countway \$297,402
2017-2020	PI (1.0) <u>NSF-CBE</u> Collaborative Research: Culture of marine protozoans using industrial bioreactors \$400,000
2015-2018	PI (20%) Co-PI: Nicholas R. Record, Peter D. Countway (Bigelow Lab) <u>Saltonstall Kennedy Funds (2014/15 S-K)</u> Seasonal patterns of protozoan parasites in the Gulf of Maine and the risk of bioaccumulation of human waterborne pathogens \$394,695
2015-2017	Co PI (20%) PI: Joaquín Martínez Martínez (Bigelow Lab) <u>NSF (EAGER-IOS)</u> Viruses of the protozoan parasites <i>Perkinsus</i> spp.: isolation and characterization \$298,674

RESEARCH INTEREST

- Parasite “omics” (genomics, transcriptomics, proteomics).
- Host-pathogen interactions.
- Molecular and genetic basis of resistance against infectious diseases.

- Identification and characterization of mechanisms involved in parasite virulence.
- Alternative models for production of recombinant proteins.
- Drug discovery.

LANGUAGES:

- Fluent in Spanish and Galician.
- Conversational French and Portuguese.

TEACHING SERVICE

Research Co-Advisor

- 1999 Manuela Almeida, graduate student visitor, Molecular Biology and Biotechnology, Center for Marine Sciences–CCMar, University of Algarve, Faro Portugal
- 2001 Patrícia A. Nunes, graduate student visitor, Molecular Biology and Biotechnology, Center for Marine Sciences–CCMar, University of Algarve, Faro, Portugal
- 2002 Harmony Hancock, Technician
- 2002 Sean T. Berg, Baltimore Polytechnic Institute, Ingenuity Research Practicum, summer Intern
- 2003-4 Kiran Jay Harding, River Hill High School, summer intern
- 2004 Rita Ascenso, graduate student visitor, Molecular Biology and Biotechnology, Centerfor Marine Sciences–CCMar, University of Algarve, Faro Portugal
- 2004 Jerusa Contee, Baltimore Polytechnic Institute, Ingenuity Research Practicum, summer Intern
- 2004 Vincent A. Connors, Division of Natural Sciences and Engineering-Biology, University of South Carolina, Spartanburg
- 2005 Teaike Butts, Living Marine Resources Cooperative Science Center (LMRCSC) NOAA, Center of Marine Biotechnology, summer intern
- 2005 Zhuoer Lin, graduate student, MEES Program, Center of Marine Biotechnology, University of Maryland College Park
- 2005 Gwendolyn Mullen, Visiting Teacher (Morgan State University Graduate School Science Education), Expert Program, Center of Marine Biotechnology, summer intern
- 2006 David Hall. Living Marine Resources Cooperative Science Center (LMRCSC)/NOAA, summer intern
- 2006 Claire Lefebvre. Expert Program, Center of Marine Biotechnology, summer intern
- 2007 Claudia Solís-Román, Thomas Jefferson High School for Science & Technology, April-May
- 2007 Jeewon kim, Thomas Jefferson High School for Science & Technology, April-May
- 2008 Sherwin Farlan, River Hill High School
- 2008 Dana N. Wilson, Visiting Teacher, Towson High School, Expert Program, Center of Marine Biotechnology, summer intern
- 2008 Kwabina Nimarco, Living Marine Resources Cooperative Science Center (LMRCSC) NOAA, Center of Marine Biotechnology, summer intern
- 2009 Patricia Costa. Towson University, Center of Marine Biotechnology, January-May
- 2009 Roberto Olmo-Bermúdez, Living Marine Resources Cooperative Science Center (LMRCSC) NOAA, Center of Marine Biotechnology, summer intern
- 2009 Nana Osei, Living Marine Resources Cooperative Science Center (LMRCSC) NOAA, Center of Marine Biotechnology, summer intern
- 2009 Dana O. Johnson, NSF, 2009 ESEP Chesapeake Teacher Research Fellowship
- 2010 Negash Adugna, CCBC Volunteer.
- 2011 Darbi R. Jones, undergraduate student LMRCS-IMET Program.
- 2011 Oluwakemi Adewuyi, undergraduate, NSF fellow.
- 2011 Samuel Adekanye, ExPERT Program.
- 2011 Surekha Shridhar, CCBC Volunteer.
- 2013 Yesmalie Alemán Resto, REU (NSF Program).

- 2013 Jonah Belk Colby Semester.
- 2014 Nicholas D. Marquis REU (NSF Program).
- 2014 Alexa Williams REU (NSF Program).
- 2015 Emma R. Cold REU (NSF Program).
- 2015 Robert D. Morefield REU (NSF Program).
- 2015 Sarah Conlisk, Western Massachusetts, Volunteer.
- 2015 Afia Oben, Colby College, Colby Semester at Bigelow.
- 2016 Nastasia J. Freyria, Université de Toulon, France, Master Student.
- 2016 Mathieu Lazare, Université de Toulon, France, Master Student.
- 2016 Sydney Tiemann REU (NSF Program).
- 2016 Allie L. Irish, Colby College, Colby Semester at Bigelow.
- 2017 Theodore J. Bishop, REU (NSF Program).
- 2017 Madelaine M. Schuldt, Bowdoin College, Honors Thesis.
- 2017 Duncan B. Cole, Colby College, Colby Semester at Bigelow.
- 2018 Lovely Uberita, Intern, Boothbay Region High School.

Postdoctoral advisee

- 2011 Leslie Smidth, IMET, University of Maryland School of Medicine.

Ph.D. Committee

- 2005-2010 Zhuoer Lin, Ph.D. MEES Program, IMET, University of Maryland College Park
- 2010- Liuh, Jarren, Graduate Student MEES Program, UMCES-IMET, University of Maryland College Park.

Teaching

- 2022-Present The Roux Institute at Northeastern University. "Biotechnology Masters's)
- 2017-218 Colby College, Jan Plan, "Synthetic Biology".
- 2010-2012 Medical Spanish, Intermediate II, University of Maryland Baltimore, School of Medicine.

PUBLICATIONS (60+)

Peer Review Journals ([Research Gate Profile](#))

1. Murphy, C., J.A. Fernández Robledo, and G.P. van Walsum. 2023. *Perkinsus marinus* in bioreactor: growth and a cost-reduced growth medium. *J Ind Microbiol Biotechnol*, **50**(1).
2. Puritz, J.B., H. Zhao, X. Guo, M.P. Hare, et al. 2022. Nucleotide and structural polymorphisms of the eastern oyster genome paint a mosaic of divergence, selection, and human impacts. *bioRxiv*: p. 2022.08.29.505629.
3. Giersch, R.M., S.F.M. Hart, S.G. Reddy, M.A. Yonemitsu, et al. 2022. Survival and detection of bivalve transmissible neoplasia from the soft-shell clam *Mya arenaria* (MarBTN) in seawater. *Pathogens*, **11**(283): p. 1–14.
4. Yadavalli, R., K. Umeda, H.A. Waugh, A.N. Tracy, et al. 2021. CRISPR/Cas9 ribonucleoprotein-based genome editing methodology in the marine protozoan parasite *Perkinsus marinus*. *Frontiers in Bioengineering and Biotechnology*, **9**: p. 238.
5. Yadavalli, R., K. Umeda, and **J.A. Fernández Robledo**. 2020. *Perkinsus marinus*. *Trends in Parasitology*, **36**(12): p. 1013–1014.
6. Tracy, A.N., R. Yadavalli, K.S. Reed, R. Parnaik, et al. 2020. Genome to phenome tools: In vivo and in vitro transfection of *Crassostrea virginica* hemocytes. *Fish Shellfish Immunol*, **103**: p. 438–441.
7. Marquis, N.D., T.J. Bishop, N.R. Record, P.D. Countway, et al. 2020. A qPCR-Based Survey of *Haplosporidium nelsoni* and *Perkinsus* spp. in the Eastern Oyster, *Crassostrea virginica* in Maine, USA. *Pathogens*, **9**(4).
8. Faktorová, D., R.E.R. Nisbet, **J.A. Fernandez Robledo**, E. Casacuberta, et al. 2020. Publisher Correction: Genetic tool development in marine protists: emerging model organisms for experimental cell biology. *Nat Methods*, **17**(5): p. 551.

9. Faktorová, D., R.E.R. Nisbet, **J.A. Fernández Robledo**, E. Casacuberta, et al. 2020. Genetic tool development in marine protists: emerging model organisms for experimental cell biology. *Nat Methods*, **17**(5): p. 481–494.
10. **Fernández Robledo, J.A.**, R. Yadavalli, B. Allam, E. Pales Espinosa, et al. 2019. From the raw bar to the bench: Bivalves as models for human health. *Dev Comp Immunol*, **92**: p. 260–282.
11. Marquis, N.D., T.J. Bishop, N.R. Record, P.D. Countway, et al. 2019. Molecular epizootiology of *Toxoplasma gondii* and *Cryptosporidium parvum* in the eastern Oyster (*Crassostrea virginica*) from Maine (USA). *Pathogens*, **8**(3).
12. **Fernández Robledo, J.A.**, N.D. Marquis, P.D. Countway, N.R. Record, et al. 2018. Pathogens of marine bivalves in Maine (USA): A historical perspective. *Aquaculture*, **493**: p. 9–17.
13. Cold, ER, Vasta GR, **Fernández-Robledo JA**. (2017). Transient expression of *Plasmodium berghei* MSP8 and HAP2 in the marine protozoan parasite *Perkinsus marinus*. *Journal of Parasitology*. 103(1): 118-122.
14. Van Voorhis, W, ... Alemán Resto, Y, **Fernández Robledo JA** et al. Open-source drug discovery with the Malaria Box compound collection for neglected diseases and beyond. 2016. *PLoS Pathogens*.
15. Cold, ER, Freyria, NJ, Martínez Martínez, J, **Fernández Robledo JA** An agar- based method for plating marine protozoan parasites of the genus *Perkinsus*. 2016 *PLoS One*.
16. Cunningham, C., **Fernández-Robledo, JA**. 2015. *Molluscan Immunology. Fish and Shellfish Immunology*. 05/2015; DOI:10.1016/j.fsi.2015.05.015
17. Marquis, ND, Record, NR, **Fernández-Robledo, JA**. 2015. Survey for protozoan parasites in eastern oysters (*Crassostrea virginica*) from the Gulf of Maine using PCR-based assays. *Parasitology International*. **64**(5): 299-302
18. Alemán Resto, Y, **Fernández Robledo JA** 2014. Identification of MMV Malaria Box inhibitors of *Perkinsus marinus* using an ATP-based bioluminescence assay. *PLoS One* **9**(10): e111051 ([pdf](#))
19. **Fernández-Robledo, JA**, Vasta, GR, Record, NN. 2014. Protozoan parasites of bivalve molluscs: literature follows culture. *PLoS One*. **9**(6): e100872 ([pdf](#))
20. Wathsala Wijayalath, Sai Majji, Yuliya Kleschenko, Teodor D. Brumeanu, Eileen Franke Villasante, Gerardo R. Vasta, **José-Antonio Fernández-Robledo**, and Sofia Casares 2014. Humanized HLA-DR4 mice fed with the protozoan pathogen of oysters *Perkinsus marinus* (Dermo) do not develop noticeable pathology but elicit systemic immunity. *PLoS One*. **9** (1): e87435 ([pdf](#)).
21. Feng, C, Ghosh, A, Amin, M, Giomarelli, B, Sridhar, S, Banerjee, A, **Fernández-Robledo, JA**, Bianchet, MA, Wang, L-X, Wilson, IBH, Vasta, GR. 2013. The galectin CvGal1 from the eastern oyster (*Crassostrea virginica*) binds to blood group A oligosaccharides on the hemocyte surface. *The Journal of Biological Biochemistry*. **288**: 24394-24409 ([Abstract](#)).
22. Shridhar, S, Hassan, K, Sullivan, DJ, Vasta, GR, **Fernández-Robledo, JA**. 2013. Quantitative assessment of the proliferation of the protozoan parasite *Perkinsus marinus* using a bioluminescence assay for ATP content. *International Journal for Parasitology: Drugs and Drug Resistance*. **3**: 85-92. ([pdf](#)).
23. Vasta, GR. Ahmed, H, Bianchet, MA, **Fernández-Robledo, JA**, Amzel, LM. 2012. Diversity in recognition of glycans by F-type lectins and galectins: Molecular, structural, and biophysical aspects. *Annals of the New York Academy of Sciences* 1253, E14-26 ([Abstract](#)).
24. Vasta, GR. Ahmed, H, Lazar, MN, Banerjee, A, Pasek, M, Shridhar, S, Guha, P, **Fernández-Robledo, JA**. 2012. Galectins as self/non-self recognition receptors in innate and adaptive immunity: An unresolved paradox. *Frontiers in Immunology*, **3**: 199 ([Abstract](#)).
25. **Fernández-Robledo, JA**, Matsuzaki, M, Caler, Keeling, PJ, Roos, DS, Vasta, GR. 2011. The search for the missing link: a relic plastid in *Perkinsus*? *International Journal for Parasitology*. **41**(12): 1217-1229 ([PubMed](#)).
26. Lin, Z, **Fernández-Robledo, JA**, Cellier, MFM, Vasta, GR. 2011. The natural resistance-associated macrophage protein from the protozoan parasite *Perkinsus marinus* mediates iron uptake. *Biochemistry*, **120**(2): 257-268 ([Abstract](#)).

27. **Fernández-Robledo JA**, Vasta GR. 2010. Production of recombinant proteins from protozoan parasites. *Trends in Parasitology*, **26**(5): 244-254 ([Abstract](#)).
28. Joseph SJ*, **Fernández-Robledo JA***, Gardner MJ, El-Sayed NM, Kuo C-H, Schott EJ, Wang, H, Kissinger JC, Vasta, G.R. 2010. The Alveolate *Perkinsus marinus*: Biological insights from EST gene discovery. *BMC Genomics*. **11**: 228 * Contributed equally ([Abstract](#)).
29. Lin, Z, **Fernández-Robledo, JA**, Cellier, MFM, Vasta, GR. 2009. Metals and membrane metal transporters in biological systems: The role(s) of Nramp in host-parasite interactions. *Journal of the Argentinean Society of Chemistry*. **97**: 210-25 ([pdf](#)).
30. Alavi, MR, **Fernández-Robledo, JA**, Vasta, GR. 2009. Development of an *in vitro* assay to examine intracellular survival of *Perkinsus marinus* trophozoites upon phagocytosis by oyster (*Crassostrea virginica* and *Crassostrea ariakensis*) hemocytes. *Journal of Parasitology*. **95**: 900-7 ([Abstract](#)).
31. **Fernández-Robledo JA**, Lin Z, Vasta GR. 2008. Transfection of the protozoan parasite *Perkinsus marinus*. *Molecular and Biochemical Parasitology* **157**: 44-53 ([Abstract](#)).
32. **Fernández-Robledo JA**, Schott EJ, Vasta GR. 2008. *Perkinsus marinus* superoxide dismutase 2 (PmSOD2) localizes to single-membrane subcellular compartments. *Biochemical and Biophysical Research Communications* **375**: 215-9 ([Abstract](#)).
33. Pecher W, Alavi M, Schott E, **Fernández-Robledo JA**, Roth L, Berg S, et al. 2008. Assessment of the northern distribution range of selected *Perkinsus* species in eastern oysters (*Crassostrea virginica*) and hard clams (*Mercenaria mercenaria*) using PCR-based detection assays. *Journal of Parasitology* **94**: 410–22 ([Abstract](#)).
34. Schott EJ, **Fernández-Robledo JA**, Alavi MR, Vasta GR. 2008. Susceptibility of *Crassostrea ariakensis* (Fujita 1913) to *Bonamia* and *Perkinsus* spp. infections: potential for disease transmission between oyster species. *Journal of Shellfish Research*: 541–9 ([Abstract](#)).
35. Structural/functional aspects of protein–carbohydrate interactions in innate immunity: Applications to fisheries and aquaculture. Vasta, GR, Du, SJ, Ahmed, H, **Robledo JAF**, Tasumi, S, Jackson, SS, Saito, K. *Journal of Biotechnology*. **136**: Supplement(0): S252 ([Abstract](#)).
36. Elandalloussi LM, Leite RM, Afonso R, Nunes PA, **Robledo JAF**, Vasta GR, et al. 2004. Development of a PCR-ELISA assay for diagnosis of *Perkinsus marinus* and *Perkinsus atlanticus* infections in bivalve molluscs. *Molecular Cell Probes* **18**: 89-96 ([Abstract](#)).
37. Pecher WT, **Robledo JAF**, Vasta GR. 2004. Identification of a second rRNA gene unit in the *Perkinsus andrewsi* genome. *Journal of Eukaryotic Microbiology* **51**: 234-45 ([Abstract](#)).
38. **Robledo JAF**, Courville P, Cellier MF, Vasta GR. 2004. Gene organization and expression of the divalent cation transporter Nramp in the protistan parasite *Perkinsus marinus*. *Journal of Parasitology* **90**: 1004-14 ([Abstract](#)).
39. Schott EJ, **Robledo JAF**, Wright AC, Silva AM, Vasta GR. 2003. Gene organization and homology modeling of two iron superoxide dismutases of the early branching protist *Perkinsus marinus*. *Gene* **309**: 1-9 ([Abstract](#)).
40. Quesenberry M, Saito K, Krupatkina D, **Robledo JAF**, Drgon T, Pecher W, et al. 2002. Bioassay for ichthyocidal activity of *Pfiesteria piscicida*: Characterization of a culture flask assay format. *Journal of Applied Phycology* **14**: 241-54 ([Abstract](#)).
41. **Robledo JAF**, Nunes PA, Cancela ML, Vasta GR. 2002. Development of an *in vitro* clonal culture and characterization of the rRNA gene cluster of *Perkinsus atlanticus*, a protistan parasite of the clam *Tapes decussatus*. *Journal of Eukaryotic Microbiology* **49**: 414-22 ([Abstract](#)).
42. Saito K, Drgon T, **Robledo JAF**, Krupatkina DN, Vasta GR. 2002. Characterization of the rRNA Locus of *Pfiesteria piscicida* and Development of Standard and Quantitative PCR-Based Detection Assays Targeted to the Nontranscribed Spacer. *Applied and Environmental Microbiology* **68**: 5394-407 ([pdf](#)).
43. Coss CA, **Robledo JAF**, Ruiz GM, Vasta GR. 2001a. Description of *Perkinsus andrewsi* n. sp. Isolated from the Baltic clam (*Macoma balthica*) by Characterization of the Ribosomal RNA Locus, and Development of a Species-Specific PCR-Based Diagnostic Assay. *Journal of Eukaryotic Microbiology* **48**: 52-61 ([Abstract](#)).

44. Coss CA, **Robledo JAF**, Vasta GR. 2001b. Fine structure of clonally propagated in vitro life stages of a *Perkinsus* sp. isolated from the Baltic clam *Macoma balthica*. Journal of Eukaryotic Microbiology **48**: 38-51 ([Abstract](#)).
45. **Robledo JAF**, Coss CA, Vasta GR. 2000. Characterization of the ribosomal RNA locus of *Perkinsus atlanticus* and development of a polymerase chain reaction-based diagnostic assay. Journal of Parasitology **86**: 972-8 ([Abstract](#)).
46. Robledo JAF, Saito K, Steidinger KA, Vasta GR. 2001. The non-transcribed spacer for the rRNA locus as a target for specific detection of the dinoflagellate *Pfiesteria piscicida* and protistan parasites (*Perkinsus* spp.). Ninth International Conference on Harmful Algal Blooms, at Hobart, Australia, 7-11 February 2000: 238-41 ([Abstract](#)).
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Non-Peer Review Journals

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Under review

Pathogens of bivalve mollusks in Maine (USA): a historical perspective. **José A. Fernández Robledo**, Nicholas D. Marquis, Peter D. Countway, Nicholas R. Record, Ellie L. Irish, Madeline M. Schuldt, Sarah E. Kingston, Theodore J. Bishop, Nicole A. Messerman, Timothy J. Bowden. Submitted to *Aquaculture*.

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GENOME PROJECTS

Perkinsus marinus ATCC 50983 (PRA240), whole genome shotgun sequencing project. ([Link](#)), ([Link](#))
Genome strain deposit. ([Link](#)).

INVITED TALKS

“Science on the Half Shell: How Oyster Parasites Might Benefit Human Health” Camden Public Library. April 24, 2017.
“The Oyster Goes to the Vet” Skidompha Public Library. February 22, 2017.
“Protozoan parasites of oysters: Four stories in the history of “Dermo” disease” Sveučilište u Dubrovniku, December 14, 2016.
“Protozoan parasites of oysters in Maine: epizootiology and biotechnological applications” Gloucester Marine Genomics Institute Science Forum. September 17, 2016.
“Forecasting Protozoan Parasites in the Gulf of Maine and the Risk of Bioaccumulation of Human Waterborne Pathogens in Oysters” The Damariscotta River: Understanding What Makes a Productive Estuary. DRA facility at Round Top Farm, Damariscotta, April 1, 2016.
“Oysters, protozoans, and malaria: from basic science to vaccines using the marine protozoan parasite *Perkinsus marinus*” Colby College, February the 12, 2016.
“Bioengineering the marine protozoan parasite *Perkinsus marinus*: from basic science to vaccines” University of Maine, Chemical and Biological Engineering, Orono, November 13, 2015.
“The protozoan parasite *Perkinsus marinus*: Lemons and lemonade” Southern Maine Community College, Portland, October 29, 2015.
“Dermo” versus “MSX” in Maine: Who is to blame? Shellfish Working Group. Patten Free Library, Bath, May 6 2015.
“Protozoan parasites in oysters from Maine: “Dermo” versus MSX”. IMET, University of Maryland; Baltimore, USA. April 1st 2015.
“Dermo” in Maine, epizootiology, treatment, and biotechnological applications. University of Maine; Orono, USA. January 21st 2015.
“Dermo” un protozoo parásito de moluscos: perspectiva histórica y aplicaciones biotecnológicas. Universidad de Murcia, Spain, December 19th 2014.
“Dermo” disease: the story of an oyster parasite with an unexpected twist. Dalhousie University; Halifax, Nova Scotia, Canada. September 27th 2014.
Oysters, parasites, and malaria: Guess what? University of New Mexico, Department of Biology, Albuquerque, NM, April 27th 2014.
Science Communication: oyster diseases and human diseases. Bigelow Laboratory for Ocean Sciences. October 17th 2013.
The oyster parasite *Perkinsus marinus*: an unexpected link between oysters and malaria. Senior College at USM Lewiston- Auburn College. November 8th 2013.
“Shucking” news: marine protozoan parasites in oysters. Café Scientifique, Boothbay Opera House, August 13th 2013.
Molecular biology of the protozoan *Perkinsus marinus*: what is there to learn? Plentziako Itsas Estazioa (PIE-UPV/EHU) Join European MSc Degreee European Master in Marine Environment and Resources. Plentzia, Spain, September 28, 2012.
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Marine organisms as models in biotechnology and biomedicine. Plentziako Itsas Estazioa (PIE-UPV/EHU), Join European MSc Degreee European Master in Marine Environment and Resources. Plentzia, Spain, September 18, 2012.
The protozoan parasite *Perkinsus marinus*: searching for clues for intervention and beyond.

- UPV, Bigelow Laboratory for Ocean Sciences, West Boothby Hbr, ME, January 17, 2012.
- The protozoan parasite *Perkinsus marinus*: catching up with the big leagues. UPV, Bilbao, December 27, 2011.
- The protozoan parasite *Perkinsus marinus* in the XXI century: new perspectives for an old problem. CICESE, Ensenada, México, January 14, 2011.
- Production of recombinant proteins from protozoan parasites: Current approaches and novel platforms. Invited speaker. Pep Talks, The Protein Science Week, San Diego, California, January 2011.
- Perkinsus marinus* (Alveolata, Perkinsea): The human parasite wannabe? Walter Reed Army Institute of Research, Silver Spring, Maryland, November 2010.
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- Applications of molecular probes to differential diagnostic of *Perkinsus marinus* from other *Perkinsus* spp. in farmed shellfish production. Annual Aquaculture Research, Extension and Business Opportunities Update. Northeastern Regional Aquaculture, February 24 2005. NRAC (UMass Dartmouth Campus), Modular Building # 3, 285 Old Westport Road. N. Dartmouth, Massachusetts, USA.
- Genomic approaches to study the protozoan parasite *Perkinsus marinus*. Veterinary Medicine, University of Georgia. 28 September 2004. Athens, Georgia, USA.
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- Perkinsus marinus*-*Crassostrea virginica*, as a model for parasite/host interactions.
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