

CURRICULUM VITAE

Naiara Rodríguez-Ezpeleta

Marine Research Division, AZTI

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Two children (born September 2015 and August 2018)

EDUCATION

- 2007 **Ph. D. in Biochemistry.** *Faculté de Médecine de l'Université de Montréal*, Quebec, CANADA.
Thesis (Dr. B. Franz Lang, supervisor): "Une approche phylogénomique pour inférer l'évolution des eucaryotes" [Written and defended in French]
- 2001 **B.S. in Biology.** *Facultad de Ciencias de la Universidad del País Vasco*, Leioa, SPAIN
[Academic year 1999/2000 spent in France as exchange student]

PROFESSIONAL EXPERIENCE

- 2011 – present **Senior Researcher.** *Marine Research Division, AZTI*, Sukarrieta, SPAIN
- 2009 – 2011 **Bioinformatics Specialist.** Genome Analysis Platform, CIC bioGUNE, Derio, SPAIN
- 2008 – 2009 **Postdoctoral Researcher.** Laboratorio de Genómica Funcional, CIC bioGUNE Derio, SPAIN
- 2007 – 2008 **Postdoctoral Researcher.** Institute for Cell & Mol. Biosc., Newcastle University, Newcastle upon Tyne, UK

GRANTS, HONORS AND AWARDS

- 2018 Recognition of the research trajectory and scientific-technological merit, BASQUE GOVERNMENT
- 2013 – 2017 Ayuda del subprograma Torres Quevedo, SPANISH MINISTRY OF ECONOMY AND COMPETITIVITY
- 2009 – 2010 Marie-Curie Intra European Fellowship, EUROPEAN COMMISSION [withdrawn for personal reasons]
- 2008 – 2009 Postdoctoral Scholarship, BASQUE GOVERNMENT
- 2007 Member of the Dean's Honour List, UNIVERSITÉ DE MONTRÉAL
- 2005 Short-term visit Fellowship, BASQUE GOVERNMENT
- 2001 – 2005 Doctoral Scholarship, BASQUE GOVERNMENT
- 2004 Best PhD poster award. Robert Cedergren Conference, UNIVERSITÉ DE MONTRÉAL
- 2003 Best PhD student presentation award. Simon-Pierre Noël Conference, UNIVERSITE DE MONTREAL
- 2002 – 2003 Excellence Grant, UNIVERSITÉ DE MONTRÉAL
- 2000 – 2001 Intern Scholarship, BASQUE GOVERNMENT
- 1999 – 2000 Erasmus Fellowship, EUROPEAN UNION
- 1999 – 2000 International Exchange Fellowship, BILBAO BIZKAIA KUTXA

TEACHING

- 2020 **Instructor.** *RAD-seq data analysis.* Physalia courses. Berlin, GERMANY (online due to COVID-19)
- 2018 – 2019 **Invited Lecturer.** *Research in Marine Environment & Resources.* Aquarium of San Sebastian, SPAIN
- 2018 **Invited Lecturer.** Omics informed marine management. *Ramón Margalef Summer Colloquia: Ecology through the omic lens.* ICM. Barcelona, SPAIN
- 2017 **Professor.** EMBO course on *Advanced concepts and practice of phylogenetic analyses*, Faro, PORTUGAL
- 2013 – 2016 **Professor.** Master on *Marine Environment and Resources.* University of the Basque Country, SPAIN
- 2011 – 2016 **Co-Director.** Workshop on *Comparative Genomics*, Europe. Český Krumlov, CZECH REPUBLIC
- 2015 **Professor.** Summer school on *Integrative Assessment of Marine Systems.* San Sebastian, SPAIN
- 2015 **Invited Professor.** Annual Retreat of the *NGS Discussion Group.* University of Zurich. SWITZERLAND
- 2014 **Invited Lecturer.** Workshop on *Innovative Monitoring Techniques.* Barcelona, SPAIN

- 2014 **Invited Lecturer.** *Eukaryotic -Omics: Exploring and testing with NGS.* Geneva. SWITZERLAND
2013 **Professor.** Summer school on *Genomics Tools in Marine Ecosystem Monitoring.* San Sebastian, SPAIN
2013 **Professor.** Workshop on *Molecular Tools for detecting alien species and HABS.* Bilbao, SPAIN
2010 – 2012 **Co-Director.** Workshop on *Molecular Evolution,* Europe. Český Krumlov, CZECH REPUBLIC
2012 **Instructor.** Training in *Bioinformatics for the analysis of RAD-tags.* Fisheries and Oceans, Halifax, CANADA
2009 **Instructor.** Workshop on *Molecular Evolution,* Europe. Český Krumlov, CZECH REPUBLIC
2011 **Professor.** Master in *Molecular Biology and Biomedicine.* University of the Basque Country, SPAIN
2009 **Invited Lecturer.** Course on *Population Genetics and Evolution.* University of the Basque Country, SPAIN
2006 **Teaching Assistant.** *BioneQ Phylogenomics Workshop.* Université du Québec à Montréal, CANADA
2005 – 2006 **Teaching Assistant.** Workshop on *Molecular Evolution.* Marine Biological Laboratory, Woods Hole, USA
2005 – 2006 **Teaching Assistant.** Graduate course on *Genomic Analysis.* U. Montréal. Montreal, CANADA

SUPERVISED STUDENTS

PhD Thesis completed:

- 2020 Natalia Díaz-Arce. Zooming into the evolution of Atlantic bluefin tuna (*Thunnus thynnus*) using high-throughput sequencing: towards a phylogenomics and populations dynamics informed management. AZTI (PhD program from the University of the Basque Country), SPAIN
2019 Anaïs Rey. From port to ballast water: application of DNA metabarcoding for the monitoring of ship-borne biodiversity. AZTI (PhD program from University of Oviedo), SPAIN.
2017 Eva Aylagas. Developing biotic indices for environmental status assessment using metabarcoding. AZTI (PhD program from University of the Basque Country), SPAIN.

Master and postgraduate Thesis completed:

- 2020 Cristina Claver. Enabling environmental DNA based mesopelagic fish diversity studies. AZTI (Master of Science in Marine Biological Resources, Ghent University, BELGIUM)
2018 Marie-Catherine Bouquieaux. Assessing biodiversity of sea mammals and reptiles through environmental DNA. AZTI (Master on Marine Environment and Resources, University of Basque Country, SPAIN).
2018 Carlota Bermejo. Illustration of port sampling for biodiversity inventories. AZTI (Postgraduate course on Scientific Illustration, University of Basque Country, SPAIN).
2016 Elsa Cuende. Development of genomic tools for the study of marine predator-prey interactions. AZTI (Master on Marine Biology from Universidad de la Laguna, SPAIN).
2013 Jon Corell. Tuning of protocols and marker selection to evaluate the diversity of zooplankton using metagenetics. AZTI (Master on Ecosystem biodiversity, Functioning and Management, University of Basque Country, SPAIN).

SCIENTIFIC SERVICE

Editor:

- 2020 – present Associate Editor. Molecular Ecology
2020 – present Associate Editor. Molecular Ecology Resources
2011 – 2019 Associate Editor. Frontiers in Genetics
2014 – 2019 Associate Editor. Frontiers in Evolutionary and Population genetics
2018 Associate Editor (special issue). Continental Shelf Research

Manuscript reviewer:

BMC Bioinformatics, BMC Evolutionary Biology, BCM Microbiology, Briefings in Bioinformatics, Ekaia, Canadian Journal of Fisheries and Aquatic Sciences, Diversity and Distributions, Ecological Applications, Evolutionary Applications, Environment International, Evolution, Fish and Fisheries, Frontiers in Genetics, Frontiers in Marine Science, Gene Reports, ICES Journal of Marine Science, Journal of Applied Ecology, Journal of Nature and Conservation, Marine Pollution Bulletin, Methods in Ecology and Evolution, Molecular Biology and Evolution, Molecular Ecology Progress Series, Molecular Ecology, Molecular Ecology Resources, Molecular Genetics and Genomics, Nucleic Acids Research, Nature, PLoS One, Proceedings of the National Academy of Sciences, Protist, Revista de Investigación Marina, Science, Scientific Data, Scientific Reports, Springer, Systematic Biology.

Grant reviewer:

Antarctic Science Program, AUSTRALIA
Bluefin Tuna Research Program, NMFS-NOAA-Department of Commerce, USA
Fondazione Cariverona, ITALY
NSF Evolutionary Genetics Program, USA
NERC Strategic Research Program, UK
NSERC Discovery Frontiers Program, CANADA
Research Council, NORWAY
North Pacific Research Board, USA
Paris Sciences et Lettres Structuring Research Proposals, FRANCE
Junior Leader - Retaining Program, La Caixa Foundation, SPAIN
“Personal Técnico de Apoyo” of the Ministry of Economy and Competitiveness, SPAIN
“Proyectos de I+D+I para jóvenes investigadores” of the Ministry of Economy and Competitiveness, SPAIN
“Proyectos Excelencia y Proyectos Retos” of the Ministry of Economy and Competitiveness, SPAIN
“Proyectos Explora Ciencia” of the Ministry of Economy and Competitiveness, SPAIN
“Severo Ochoa de ayudas predoctorales” of the Ministry of Economy and Competitiveness, SPAIN

Member of grant reviewing panel:

“Ramón y Cajal” of the Ministry of Economy and Competitiveness, SPAIN
“Ayudas postdoctorales” of the Ministry of Economy and Competitiveness, SPAIN
“Stimulus of Scientific Employment”, FCT, PORTUGAL
“Proyectos Excelencia y Proyectos Retos” of the Ministry of Economy and Competitiveness, SPAIN

Research Habilitation thesis examiner:

2018 Lucie Bittner. On the use of Networks to link molecules to ecosystems. Sorbonne University, Paris, FRANCE.

PhD thesis examiner:

2020 Marjorie Couton. High-Throughput sequencing techniques for the detection and survey of marine non-indigenous species: a valuable addition to traditional methods? Sorbonne Université. FRANCE
2020 Miriam Brandt. Metabarcoding in the abyss: uncovering deep-sea biodiversity through environmental DNA. Université de Montpellier. FRANCE
2019 Brian Klitgaard Hansen. Novel DNA methods and instrumentation for species monitoring in fisheries. Technical University of Denmark. DENMARK.
2014 Guiffré Torruella. Phylogeny and Evolutionary Perspective of Opisthokonta protists. University of Barcelona, SPAIN.

Master thesis examiner:

2017 2 final projects of the Master on Marine Environment and Resources. University of the Basque Country, SPAIN

PUBLICATIONS (* INDICATES FIRST AUTHOR IS SUPERVISED POSTDOCTORAL RESEARCHER, PH.D OR MASTER STUDENT)

Peer-reviewed ISI Publications:

1. Jansen T, Nielsen EE, **Rodriguez-Ezpeleta N**, Arrizabalaga H, Post S, MacKenzie BR (2020). Atlantic bluefin tuna (*Thunnus thynnus*) in Greenland – mixed-stock origin, diet, hydrographic conditions and repeated catches in this new fringe area. *Canadian Journal of Fisheries and Aquatic Sciences*. In press (doi:10.1139/cjfas-2020-0156)
2. Gilbey J, Carvalho G, Castillo R, Coscia I, [...], **Rodriguez-Ezpeleta N**, Silva G, Strammer I, Vasemagi A, Volckaert FAM. Life in a drop: sampling environmental DNA for fishery management and ecosystem monitoring. *Marine Policy*. In press (doi:10.1016/j.marpol.2020.104331)
3. Marden E, Abbot RJ, Austerlitz F, [...], **Rodriguez-Ezpeleta N**, [...], Narum S, Rieseberg L (2020). Sharing and reporting benefits from Biodiversity Research. *Molecular Ecology* Advanced access (doi:10.1111/mec.15702)
4. Artetxe-Arrate I, Fraile I, Marsac F, Farley JH, **Rodriguez-Ezpeleta N**, Davies CR, Clear N, Grewe P, Murua H (2020). A review of the fisheries, life history and stock structure of tropical tuna (Skipjack *Katsuwonus pelamis*, yellowfin *Thunnus albacares* and bigeye *Thunnus obesus*) in the Indian Ocean. *Advances in Marine Biology*. In press (doi:10.1016/bs.amb.2020.09.002)

5. Pearman JK, Chust G, Aylagas E, Villarino E, Watson JR, [...], **Rodríguez-Ezpeleta N**, Uyarra MC, Carvalho S (2020). Pan-regional marine benthic cryptobiome Diversity patterns revealed by metabarcoding Autonomous Reef Monitoring Structures. *Molecular Ecology. Advanced access* (doi:10.1111/mec.15692)
6. Brophy D, **Rodríguez-Ezpeleta N**, Fraile I, Arrizabalaga H (2020). Combining genetic markers with stable isotopes in otoliths reveals complexity in the stock structure of Atlantic bluefin tuna (*Thunnus thynnus*). *Scientific Reports* 10:14675
7. Fraija-Fernandez N*, Bouquieaux MC, Rey A, Mendibil I, Cotano U, Irigoien X, Santos M, **Rodríguez-Ezpeleta N** (2020). Marine water environmental DNA provides a comprehensive fish diversity assessment and reveals spatial patterns in a large oceanic area. *Ecology and Evolution* 10: 7560-7584
8. Hernandez I, Alfaro B, **Rodríguez-Ezpeleta N** (2020). Enhancing high throughput sequencing unveils changes in bacterial communities during ready-to-eat lettuce spoilage. *Journal of Horticulture and Postharvest Research* 3: 297-310
9. Rey A*, Basurko OC, **Rodríguez-Ezpeleta, N** (2020). Considerations for metabarcoding-based port biological baseline surveys aimed at marine non-indigenous species monitoring and risk-assessments. *Ecology and Evolution* 10: 2452-2465
10. Leone A*, Álvarez P, García D, Saborido-Rey F, **Rodríguez-Ezpeleta N** (2019). Genome-wide SNP based population structure in European hake reveals the need for harmonizing biological and management units. *ICES J Mar. Sci.* 76: 2260-2266
11. Rey A*, Carney KJ, Quinones LE, Pagenkopp Lohan K, Ruiz GM, Basurko OC, **Rodríguez-Ezpeleta N** (2019). Environmental DNA metabarcoding: a promising tool for ballast water monitoring. *Environmental Science and Technology* 53: 11849- 11859
12. **Rodríguez-Ezpeleta N**, Díaz-Arce N, Walter III, JF, Richardson DER, Rooker JR, [...], Fromentin JM, Arrizabalaga H (2019). Improved Atlantic bluefin tuna management through genetic assignment of natal origin. *Frontiers in Ecology and the Environment* 17: 439-444
13. Díaz -Arce N*, **Rodríguez -Ezpeleta N** (2019). Selecting RAD-seq data analysis parameters for population genetics: the more the better? *Frontiers in Genetics* 10:533
14. Azpeitia K, **Rodríguez-Ezpeleta N**, Mendiola D (2019). Settlement and recruitment pattern variability of the mussel *Mytilus galloprovincialis* Lmk. from the Bay of Biscay (Basque Country). *Regional Studies in Marine Science* 27: 100523
15. Aylagas E*, Borja A, Muxika I, **Rodríguez-Ezpeleta N** (2018). Adapting metabarcoding-based benthic biomonitoring into routine marine ecological status assessment networks. *Ecological Indicators* 95: 194-202
16. Puncher GN, Cariani A, Maes GE, van Houdt J, Herten K, Cannas R, **Rodríguez-ezpeleta N**, [...], Arrizabalaga H, Tinti F (2018). Spatial dynamics and mixing of bluefin tuna in the Atlantic Ocean and Mediterranean Sea revealed using next generation sequencing. *Molecular Ecology Resources* 18: 620-638
17. Van Wyngaarden M, Snelgrove PVR, DiBacco C, Hamilton LC, Rodríguez-Ezpeleta N, Zhan L, Beiko RG, Bradbury IR (2018). Oceanographic variation influences spatial genomic structure in the sea scallop, *Placopecten magellanicus*. *Ecology and Evolution* 8: 2824-2841
18. Villarino E, Watson JR, Jönson B, Gasol JM, [...] **Rodríguez-Ezpeleta N**, [...], Duarte C, Irigoien X, Chust G (2018). Large-scale ocean connectivity and planktonic body size. *Nature Communications* 9:142.
19. Rey A*, Basurco OC, **Rodríguez-Ezpeleta N** (2018). The challenges and promises of genetic approaches for ballast water monitoring. *Journal of Sea Research* 133:134-145
20. **Rodríguez-Ezpeleta N**, Álvarez P, Irigoien X. (2017). Genetic diversity and connectivity in *Mauroliscus muelleri* in the Bay of Biscay inferred from thousands of SNP markers. *Frontiers in Genetics* 8:195.
21. Tricarico E, Borrell YJ, Garcia-Vazquez E, Rico JM, Rech S, Scapini S, Johovic I, **Rodríguez-Ezpeleta N**, Basurko OC, Rey A, Gough P, Aquiloni L, Sposimo P, Inghilesi AF, Haubrock P, Delgado JF, Skukan R, Hall D, Marsh-Smith S, Kilbey D, Monteoliva AP, Muha TP, Rodriguez-Rey M, Rolla M, Rehwald HK, Garcia de Leaniz C, Consuegra S (2017). Developing innovative methods to face aquatic invasions in Europe: the Aquainvad-ED project. *Management of Biological Invasions*. 8: 403:408
22. Cuende E*, Mendibil I, Bachiller E, Álvarez P, Cotano U, **Rodríguez-Ezpeleta N** (2017). A Real-time PCR approach to detect predation on anchovy and sardine early life stages. *Journal of Sea Research* 130: 204-209

23. Van Wyngaarden M, Snelgrove PVR, DiBacco C, Hamilton LC, **Rodríguez-Ezpeleta N**, Stanley RRE, Bradbury IR (2017). Identifying patterns of dispersal, connectivity, and selection in the sea scallop, *Placopecten magellanicus*, using RAD-seq derived SNPs. *Evolutionary Applications* 10: 102–117
24. Aylagas E*, Borja A, Tangherlini M, Dell'Anno A, Corinaldesi C, Michell CT, Irigoien X, Danovaro R, **Rodríguez-Ezpeleta N** (2017). A bacterial community-based index to assess the ecological status of estuarine and coastal environments. *Marine Pollution Bulletin*. 114: 679-688
25. Danovaro R, Carugati L, Berzano M, Cahill AE, [...], **Rodríguez-Ezpeleta N**, [...], Cochrane SKJ, Mangoni O, Borja A (2016). Implementing and innovating marine monitoring approaches for assessing marine environmental status. *Frontiers in Marine Science*. 3: 213
26. Aylagas E*, Mendibil I, Borja A, **Rodríguez-Ezpeleta N** (2016). Laboratory guidelines for metabarcoding marine benthic macroinvertebrates: sample processing for biomonitoring and assessment purposes. *Frontiers in Marine Science*. 3: 203
27. Díaz-Arce N*, Arrizabalaga H, Murua H, Irigoien X, **Rodríguez-Ezpeleta N** (2016). RAD-seq derived genome-wide nuclear markers resolve the phylogeny of tunas. *Molecular Phylogenetics and Evolution*. 102:202-207
28. Aylagas E*, Borja A, Irigoien X, **Rodríguez-Ezpeleta N** (2016). Benchmarking DNA metabarcoding for biodiversity-based monitoring and assessment. *Frontiers in Marine Science*. 3: 96
29. Bucklin A, Lindeque P, **Rodríguez-Ezpeleta N**, Albaina A, Lehtiniemi M (2016). Metabarcoding of Marine Zooplankton: Prospects, Progress, and Pitfalls. *Journal of Plankton Research*. 38: 393–400
30. **Rodríguez-Ezpeleta N**, Bradbury I, Mendibil I, Álvarez P, Cotano U, Irigoien X (2016). Population structure of Atlantic Mackerel inferred from RAD-seq derived SNP markers: effects of sequence clustering parameters and hierarchical SNP selection. *Molecular Ecology Resources*. 16: 991–1001
31. Borja A, Elliot M, Andersen JH, Berg T, Carstensen J, Halpern BS, Heiskanen AS, Korpinen S, Lowndes JSS, Martin G, **Rodríguez-Ezpeleta N** (2016). Overview of integrative assessment of marine systems: the Ecosystem Approach in practice. *Frontiers in Marine Science*: 3:20
32. Kopf A, Bica M, Kottman R, Schnetzer J, [...], **Rodríguez-Ezpeleta N**, [...], Amaral-Zettler L, Gilbert JA, Davies N, Field D, Glöckner FO (2015). The Ocean Sampling Day Consortium. *Gigascience* 4:27
33. Bradbury IR, Bowman S, Borza T, Snelgrove PVR, Hutchings JA, Berg PR, **Rodríguez-Ezpeleta N**, Lighten J, Ruzzante DE, Taggart C, Bentzen P (2014). Long Distance Linkage Disequilibrium and Limited Hybridization Suggest Cryptic Speciation in Atlantic Cod. *PLoS One* 9: e106380
34. Aylagas E*, Borja A, **Rodríguez-Ezpeleta N** (2014). Environmental Status Assessment Using DNA Metabarcoding: Towards a Genetics Based Marine Biotic Index (gAMBI). *PLoS One* 9: e90529
35. Davies N, Field D, Amaral-Zettler L, Clark MS, [...], **Rodríguez-Ezpeleta N**, [...], Wichels A, Wooley JC, Yahara T, Zingone A; GOs-COS (2014). The founding charter of the Genomic Observatories Network. *Gigascience* 3:2
36. Rumbo-Feal S, Gómez MJ, Gayoso C, Alvarez-Fraga L, Cabral MP, Aransay AM, **Rodríguez-Ezpeleta N**, Fullaondo A, Valle J, Tomás M, Bou G, Poza M (2013). Whole Transcriptome Analysis of *Acinetobacter baumannii* Assessed by RNA-Sequencing Reveals Different mRNA Expression Profiles in Biofilm Compared to Planktonic Cells. *PLoS One* 8: e72968
37. Bourlat SJ, Borja A, Gilbert J, Taylor MI, Davies N, Weisberg SB, Griffith JF, Lettieri T, Field D, Benzie J, Glöckner FO, **Rodríguez-Ezpeleta N**, Faith DP, Bean TP, Obst M (2013). Genomics in marine monitoring: New opportunities for assessing marine health status. *Mar Pollut Bull*; 74(1):19-31
38. Vazquez-Chantada M, Gonzalez-Lahera A, Martinez-Arranz I, Garcia-Monzon C, Regueiro MM, Garcia-Rodriguez JL, Schlangen K, Mendibil I, **Rodríguez-Ezpeleta N**, Lozano JJ, Pedersen O, Banasik K, Justesen JM, Joergensen T, Witte DR, Laurintzen T, Hansen T, Veyrie N, Clement K, Tordjman J, Tran A, Le Marchand-Brustel Y, Buque X, Aspichueta P, Echevarria-Uraga JJ, Martin-Duce A, Caballería J, Gual P, Castro A, Mato JM, Martinez-Chantar ML and Aransay AM (2013). Solute carrier family 2 member 1 is involved in the development of nonalcoholic fatty liver disease. *Hepatology*, 57(2):505-14
39. Ferreira MJ, **Rodríguez-Ezpeleta N**, Pérez C, Hackenberg M, Aransay AM, Barrio R, Cantera R (2012). Whole transcriptome analysis of a reversible neurodegenerative process in *Drosophila* reveals the regulation of potential neuroprotective genes. *BMC Genomics*: 13:483

40. Mosén-Ansorena D, Aransay AM and **Rodríguez-Ezpeleta N** (2012). Comparison of methods to detect copy number alterations in cancer using simulated and real genotyping data. *BMC Bioinformatics*, 13(1):192
41. Iruarrizaga-Lejarreta M, Varela-Rey M, Lozano JJ, Fernández-Ramos D, **Rodríguez-Ezpeleta N**, Embade N, Lu SC, van der Kraan PM, Blaney Davidson EM, Gorospe M, Mirsky R, Jessen KR, Aransay AM, Mato JM, Martínez-Chantar ML, Woodhoo A (2012). The RNA-binding protein HuR controls global changes in gene expression during Schwann cell development. *The Journal of Neuroscience*. 32(14):4944-58
42. Díaz-Peña R, Aransay AM, Suárez-Álvarez B, Bruges-Armas J, **Rodríguez-Ezpeleta N**, Regueiro M, Pimentel-Santos FM, Mulero J, Sánchez A, Collantes E, Queiro R, Ballina J, Alves H, López-Larrea C (2012). A high-density SNP genotyping approach within 19q13 chromosomal region identifies an association of a CNOT3 polymorphism with ankylosing spondylitis. *Annals of the Rheumatic Diseases* 71(5):714-7
43. **Rodríguez-Ezpeleta N** and Embley TM (2012). The SAR11 group of alpha-proteobacteria is not related to the origin of mitochondria. *PLoS One*. 7: e30520
44. Vandembroek K, Alvarez J, Swaminathan B, Alloza I, Matesanz F, Urcelay E, Comabella M, Alcina A, Fedetz M, Ortiz MA, Izquierdo G, Fernandez O, **Rodríguez-Ezpeleta N**, Matute C, Caillier S, Arroyo R, Montalban X, Oksenberg JR, Antigüedad and Aransay A. (2012). A cytokine gene screen uncovers SOCS1 as genetic risk factor for multiple sclerosis. *Genes and Immunity* 1: 21-28
45. Diaz-Peña R, Aransay AM, Bruges-Armas J, Lopez-Vazquez A, **Rodríguez-Ezpeleta N**, Mendibil I, Sánchez A, Torre-Alonso JC, Bettencourt BF, Alves H and Lopez-Larrea C (2011). Fine mapping of major histocompatibility complex in ankylosing spondylitis: association of HLA-DPA1 and HLA-DPB1 region. *Arthritis & Rheumatism* 63(11):3305-12
46. Hackenberg M, **Rodríguez-Ezpeleta N** and Aransay AM (2011). miRanalyzer: an update on the detection and analysis of microRNAs in high throughput sequencing experiments. *Nucleic Acids Res* Suppl 2:W132-8
47. **Rodríguez-Ezpeleta N**, Álvarez-Busto J, Imaz L, Regueiro M, Azcárate MN, Bilbao R, Iriondo M, Gil A, Estonba A and Aransay AM (2010). High-density SNP genotyping detects homogeneity of Spanish and French Basques, and confirms their genomic distinctiveness from other European populations. *Hum. Genet.* 128:113-117
48. Baurain D, Brinkmann H, Petersen J, **Rodríguez-Ezpeleta N**, Stechmann A, Demoulin V, Burger G, Lang BF and Philippe H (2010). Phylogenomic evidence for separate acquisition of plastids in cryptophytes, haptophytes and stramenopiles. *Mol. Biol. Evol.* 27:1698-709
49. Liu Y, Leigh J, Brinkmann H, Cushion MT, **Rodríguez-Ezpeleta N**, Philippe H and Lang BF (2009). Phylogenomic analyses support the monophyly of Taphrinomycotina, including Schizosaccharomyces fission yeasts. *Mol. Biol. Evol.* 26:27-34
50. **Rodríguez-Ezpeleta N**, Brinkmann H, Burger G, Roger AJ, Gray MW, Philippe H and Lang BF (2007). Toward the resolution of the eukaryotic tree: the phylogenetic positions of jakobids and cercozoans. *Curr. Biol.* 17:1420-1425
51. **Rodríguez-Ezpeleta N**, Brinkmann H, Roure B, Lartillot N, Lang BF and Philippe H (2007). Detecting and overcoming systematic errors in genome-scale phylogenies. *Syst. Biol.* 56:1-11
52. Roure B, **Rodríguez-Ezpeleta N** and Philippe H (2007). SCAFoS: a tool for Selection, concatenation and fusion of Sequences for phylogenomics. *BMC Evol. Biol.* 7 Suppl.1: S2
53. **Rodríguez-Ezpeleta N**, Philippe H, Brinkmann H, Becker B and Melkonian M (2007). Phylogenetic analyses of nuclear, mitochondrial and plastid multi-gene datasets support the placement of *Mesostigma* in the Streptophyta. *Mol Bio. Evo.* 24: 723-731
54. **Rodríguez-Ezpeleta N** and Philippe H (2006). Plastid origin: replaying the tape. *Curr. Biol.* 16:R53-R56
55. **Rodríguez-Ezpeleta N**, Brinkmann H, Burey S, Roure B, Burger G, Loffelhardt W, Bohnert HJ, Philippe H and Lang BF (2005). Monophyly of primary photosynthetic eukaryotes: green plants, red algae, and glaucophytes. *Curr. Biol.* 15:1325-1330

Peer-reviewed non-ISI Publications:

56. Menchaca I, Zorita I, **Rodríguez-Ezpeleta N**, Erauskin E, Erauskin C, Liria P, Mendibil P, Santesteban M, Urtizbera I (2014). Guide for the evaluation of biofouling in the marine environment. *Revista de Investigación Marina* 21(4)
57. Corell J*, **Rodríguez-Ezpeleta N** (2014). Tuning of protocols and marker selection to evaluate the diversity of zooplankton using metabarcoding. *Revista de Investigación Marina* 21(2)
58. **Rodríguez-Ezpeleta N**, Mendibil I, Álvarez P, Cotano U (2013). Effect of fish sampling and tissue storage conditions in DNA quality: considerations for genomic studies. *Revista de Investigación Marina* 20(6)

Book chapters:

59. Rey A*, Corell J, **Rodríguez-Ezpeleta N** (2020). Metabarcoding to study zooplankton diversity. In *Zooplankton Ecology* (Barbosa and Teodosio, eds). CRC Press (Taylor & Francis Group) ISBN 978-1-1384-9645-3
60. Arrizabalaga H, Arregi I, Medina A, **Rodríguez-Ezpeleta N**, Fromentin JM, Fraile I (2019). Life history and migrations of Mediterranean bluefin populations. In *The Future of Bluefin Tunas* (B. Block, ed). John Hopkins University Press. ISBN 978-1-4214-2963-2
61. Aylagas E*, **Rodríguez-Ezpeleta N** (2016). Analysis of Illumina MiSeq amplicon reads: application to benthic indices for environmental monitoring. In *Methods in Molecular Biology: Marine Genomics - Methods and Protocols*. Vol. 1452 (S. Bourlat, ed.) pp. 237-249. Springer, New York, USA. ISBN 978-1-4939-3774-5
62. **Rodríguez-Ezpeleta N**, Moreira D, Ruíz-Trillo I (2014). The Former “Protists”: Amoebozoa, Rhizaria, Excavata, Haptophyta, Cryptophyta, Heterokonta, and Alveolata. In *The Tree of Life* (P Vargas and R Zardoya eds.). Sinauer Associates Inc. ISBN: 978-1-60535-229-9
63. **Rodríguez-Ezpeleta N**, Moreira D, Ruíz-Trillo I (2012). Protistas: Amoebozoa, Rhizaria, Excavata y Chromalveolata. In *El árbol de la vida* (P Vargas and R Zardoya eds.) pp. 42-55. Madrid, Spain. ISBN 978-84-615-9740-6
64. **Rodríguez-Ezpeleta N** and Aransay AM (2011). Introduction. In *Bioinformatics for High Throughput Sequencing* (Rodríguez-Ezpeleta N, Hackenberg M and Aransay AM eds.). pp. 1-10. Springer, New York, NY, USA. ISBN 978-1-4614-0781-2
65. **Rodríguez-Ezpeleta N** and Philippe H (2009). Phylogenomics. In *Encyclopaedia of Microbiology*, 3rd ed. (M Schaechter ed.) pp. 633-643. Elsevier Ltd. Oxford, UK. ISBN 978-0123739391
66. **Rodríguez-Ezpeleta N**, Teijeiro S, Forget L, Burger G and Lang BF (2009). Construction of cDNA Libraries: Focus on Protists and Fungi. In *Methods in Molecular Biology: Expressed sequence tags - generation and analysis* Vol. 533 (J Parkinson, ed.) pp.1-15. Humana press Inc. Totowa, NJ, USA. ISBN 978-1588297594
67. Leigh J, Seif E, **Rodríguez-Ezpeleta N**, Jacob Y, Lang BF (2003). Fungal evolution meets fungal genomics. In *Handbook of Fungal Biotechnology*, 2nd ed. (D Arora, ed.) pp. 145-161. Marcel Dekker Inc. New York, NY, USA. ISBN 978-0-8247-4018-4

Books edited:

Rodríguez-Ezpeleta N, Hackenberg M and Aransay AM (2011). *Bioinformatics for High Throughput Sequencing*. Springer, New York, NY, USA. ISBN 978-1-4614-0781-2

ORAL COMMUNICATIONS (ONLY THOSE AS MAIN PRESENTER ARE INDICATED)

- 2020 **Invited Speaker**. “Modernizing fisheries management through genomic tools”. *FAO Fisheries Division Seminar Series*. Rome, ITALY (online due to COVID-19)
- 2019 **Speaker**. “Integrating genetic assignment of natal origin into Atlantic bluefin tuna Management Strategy Evaluation”. *ICES Annual Science Conference*. Gothenburg, SWEDEN
- 2019 **Speaker**. “How should DNA metabarcoding based food web data be integrated into marine ecosystem models?”. *ICES Annual Science Conference*. Gothenburg, SWEDEN
- 2019 **Speaker**. “Environmental DNA based approaches for marine biodiversity monitoring and evaluation”. *FSBI Symposium*, Hull, UK
- 2019 **Invited speaker**. “Biological Challenges of the application of the Ballast Water Management Convention”. *World Maritime Week: Future Port*. Bilbao, SPAIN
- 2018 **Invited speaker**. “eDNA based fish biodiversity assessment in estuaries and coastal waters”. *DNAqua-Net Workshop*. Pécs, HUNGARY
- 2017 **Invited Speaker**. “High-throughput the global ocean eukaryotic plankton: promises and challenges”. *Global Ocean Genome*. KAUST, SAUDI ARABIA
- 2017 **Speaker**. “Improving marine management by implementing DNA-based monitoring and evaluation strategies”. *DNAqua-Net Conference*. Essen, GERMANY
- 2017 **Invited Speaker**. “Connectivity and traceability in mackerel and bluefin tuna: providing advice and tools for management”. *EuroMarine Foresight Workshop: The application of population genomics to fisheries management*. Faro, PORTUGAL.

- 2017 **Invited Speaker.** "The promise of genomic approaches for plankton biodiversity assessment" *EuroMarine Foresight Workshop: Plankton Biodiversity*. Pasaia, SPAIN
- 2016 **Speaker.** "Genetic based marine monitoring: deriving biotic indices from macroinvertebrate and bacterial metabarcoding". *Marine biodiversity – the key to healthy and productive seas*, Brussels, BELGIUM.
- 2016 **Speaker.** "Inferring natal homing through population genomics: implications for Atlantic mackerel and bluefin tuna stock management" *FSBI Symposium*, Bangor, UK.
- 2016 **Invited speaker.** "Benchmarking DNA metabarcoding for measuring biodiversity and assessing environmental status" *Sixth International Zooplankton Production Symposium*, Bergen, NORWAY.
- 2015 **Speaker.** "Monitoring biofouling on hard substrata through DNA based approaches". *Satellite meeting on Novel Anti-Fouling Strategies*, Santiago de Compostela, SPAIN.
- 2015 **Speaker, Session organizer & Session Chair.** "Assessing connectivity in migratory and sedentary marine organisms through population structure inferred from genome-wide markers". *ASLO Aquatic Science Meeting*, Granada, SPAIN.
- 2014 **Invited speaker.** "Molecular approaches for biodiversity quantification in monitoring systems". *British Ecological Society and Société Française d'Ecologie Joint Annual Meeting*, Lille, FRANCE.
- 2014 **Speaker.** "Inferring population structure of Atlantic mackerel based on SNPs obtained through RAD-seq". *International Ocean Research Conference*. Barcelona, SPAIN.
- 2014 **Speaker.** "Evaluating the diversity of zooplankton using DNA metabarcoding: potential and drawbacks". *International Ocean Research Conference*. Barcelona, SPAIN.
- 2014 **Speaker.** "Monitoring biofouling on hard substrata through DNA based approaches". *ICES Annual Science Conference*. A Coruña, SPAIN.
- 2014 **Invited Speaker.** "Devotes and Ocean Sampling Day". *16th Genomics Standards Consortium Meeting*. Oxford, UK
- 2014 **Session Chair.** Session on Marine Biotechnology. *European Aquaculture Society Meeting*. San Sebastián. SPAIN
- 2013 **Speaker, Session organizer & Session Chair.** "The potential of genomic tools for environmental status assessment: the development of a genetic Marine Biotic Index as case study". *Coastal and Estuarine Research Federation Meeting*. San Diego. USA.
- 2013 **Invited Speaker.** "Integration of genomics in marine monitoring". *Unlocking the potential of Genomics for Marine Monitoring and Biodiversity Mapping: from concept to realization* (MG4U project). Dublin, IRELAND
- 2012 **Invited Speaker.** "Devotes: activities towards the genomics observatories network and ocean sampling day". *Workshop on Genomics Observatories Network*. Smithsonian Institution. Washington DC, USA
- 2012 **Speaker.** "El grupo SAR11 no está relacionado con el origen de la mitocondria". *Seminarios de Genética de Poblaciones y Evolución*. Orduña, Bizkaia, SPAIN.
- 2012 **Invited Speaker.** "Devotes: activities towards the genomics observatories network and ocean sampling day". *Workshop on Genomics Observatories Network*. Smithsonian Institution. Washington DC, USA
- 2007 **Invited speaker.** "Phylogenomics, systematic error and inference of eukaryotic relationships". *Society for Molecular Biology and Evolution, Annual Meeting*. Dalhousie University, Halifax, Nova Scotia, CANADA.
- 2006 **Speaker.** "Extracting Phylogenetic Signal from Genome-scale datasets". *Society for Molecular Biology and Evolution, Annual Meeting*. Arizona State University, Arizona, USA.
- 2006 **Speaker.** "Extracting Phylogenetic Signal from Genome-scale datasets" *International Congress in Phylogenomics*. Sainte Adèle, Québec, CANADA.
- 2005 **Speaker.** "Phylogenomics, taxon sampling and the monophyly of Plantae". *International Society for Evolutionary Protistology Conference XV*. Melbourne, AUSTRALIA.
- 2004 **Speaker.** "Phylogenomics and the origin of plastids". *18 Canadian Institute for the Advanced Research (Evolutionary Biology) meeting*. Lac Carling, Québec, CANADA.
- 2004 **Speaker.** "Phylogenomics: An empirical example". *Second Comparative and Integrative Bioinformatics Meeting Bromont*, Québec, CANADA.
- 2004 **Speaker.** "Le debat sur l'origine monophylétique des chloroplastes resolu par la phylogénomique". *72 congres de l'Association Canadienne Francophone pour le Savoir Montréal*, Québec, CANADA.
- 2003 **Speaker.** "A monophyletic origin of plastids confirmed by the recovery of kingdom Plantae". *First Comparative and Integrative Bioinformatics Meeting Montréal*, Québec, CANADA.

OUTREACH ACTIVITIES AND MEDIA COVERAGE

- 2020 **Open Webinar** about Modernizing fisheries management using innovative genetic tools: the GECKA project as case study available in the [AZTI YouTube channel](#).
- 2019 **TV news coverage** about the work published in Front. Ecol Env. 17: 439-444 in the [daily news of EITB](#)
- 2019 **Radio news coverage** about the work published in Front. Ecol Env. 17: 439-444 in the [daily news of Cadena Ser and Euskadi Irratia](#)
- 2019 **Radio Interview** about the work published in Front. Ecol Env. 17: 439-444 in the [programs La Mecanica del Caracol \(EITB\) and Españoles en la Mar \(Radio Exterior, RTVE\)](#).
- 2018 **TV documentary** on alien species and ballast water for [Teknopolis EITB](#).
- 2018 **Video interview** on Marine environmental DNA [Zientzia Kaiera of the Scientific Culture Chair of EHU/UPV](#)
- 2017 **Written interview** about how genetics can improve marine ecosystem conservation and management in [The Skimmer on Marine Ecosystems and Management](#)
- 2017 **Written interview** about Fisheries Genetics in [ICES blog "In other words"](#)
- 2014 **Written interview** about personal career in [Zientzia Kaiera of the Scientific Culture Chair of EHU/UPV](#)
- 2010 **Press news coverage** about the work published in Hum. Genet. 128:113-117 in [Basque journal El Correo](#)

PARTICIPATION IN RESEARCH PROJECTS (SELECTED PROJECTS IN PAST 5 YEARS; ASTERISKS INDICATE INTERNATIONAL CONSORTIA)

Public funding:

- 2020 – 2024 *Sustainable Management of Mesopelagic resources (SUMMER). H2020 EU. Role: [Participant](#).
- 2020 – 2024 *Climate Change and Future marine Ecosystem Services and Biodiversity (FutureMares). H2020 EU. Role: [Participant](#).
- 2018 – 2021 Environmental DNA based approaches for marine and aquatic monitoring and evaluation (EDAMAME). Ministry of Economy, Industry and Competitiveness of Spain. Role: [Principal Investigator](#)
- 2013 – 2021 *Biological and Genetic sampling analysis: Grand Bluefin Tuna Year Program (GBYP). Framework of the Atlantic wide Research program of Bluefin Tuna (ICCAT). Role: [Work Package Leader](#)
- 2020 – 2020 Desarrollo y aplicación de métodos genéticos para mejorar la gestión de los ecosistemas marinos y sus recursos (GENGES). Viceconsejería de Agricultura, Pesca y Política Alimentaria (Basque Government). Role: [Principal Investigator](#).
- 2017 – 2020 *Population Structure of IOTC tuna and sharks in the Indian Ocean (PSTBS-IO). FAO-IOTC. Role: [Task leader](#) and [Species coordinator](#).
- 2017 – 2020 *Close Kin Feasibility Studies. FAO-IOTC. Role: [Principal Investigator](#)
- 2017 – 2020 *Genetic Close Kin analysis on white anglerfish for abundance estimates in support of deep-sea fisheries management under the Common Fishery policy (GECKA). Tender Joint Research Centre – European Commission. Role: [Principal Investigator](#)
- 2015 – 2019 *Aquatic invaders: Early detection control and management (AQUAINVAD-ED). Marie Marie Skłodowska-Curie Innovative Training Network (EU H2020). Role: [Work Package Leader](#)
- 2014 – 2019 De los genes a la gestión pesquera (GENOPES). Viceconsejería de Agricultura, Pesca y Política Alimentaria (Basque Government). Role: [Principal investigator](#)
- 2012 – 2016 *Development of innovative tools for understanding marine biodiversity and assessing environmental status (DEVOTES). Research, technological development, and demonstration (EU FP7). Role: [Participant](#)

WORKING GROUPS

Participant:

- 2020 IOTC Working Party on Tropical Tunas
- 2020 IOTC Working Party of Ecosystems and Bycatch
- 2015 – 2017 ICCAT Standing Committee on Research and Statistics

2014 – 2019 ICES Working Group on the Integrated Morphological and Molecular Taxonomy.

2012 – present ICES Working Group on the Application of Genetics for Fisheries and Aquaculture.

Chair:

2021 – 2023 Chair of the ICES Working Group on the Application of Genetics for Fisheries and Aquaculture

2018 – 2019 Chair of the ICES Working Group the Integrated Morphological and Molecular Taxonomy.

OTHER

Accreditation ANECA (National Agency for Quality Assessment and Accreditation of Spain) for research and teaching at the university (*Profesor Contratado Doctor, Profesor Ayudante Doctor and Profesor de Universidad Privada*)

Languages: Spanish (mother tongue); English, French and Basque (C1 level of the Common European Framework)