

Francisco Rodriguez-Valera

CURRICULUM VITAE

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Birthplace: Callosa de Segura, Spain (1952/08/08)

Current Position: Professor of Microbiology (Catedrático), University Miguel Hernández (UMH), Elche, Spain; 1997/02/01 – present.

Education and Positions after Ph.D.:

1974: Licenciado en Biología (Master), University of Barcelona.

1978: Doctorado en Biología (Ph.D.) University of Granada

1997-present Professor, Departamento de Producción vegetal y Microbiología, Universidad Miguel Hernández (Spain)

1984-1997 Professor, Departamento de Genética y Microbiología, University of Alicante

1982-1991 Senior Lecturer (Prof. Titular), Faculty of Medicine, University of Alicante

1982-1983 Lecturer (Prof.Adjunto), Microbiology, University of Alicante

1981-1982 Senior Lecturer (Prof.Agregado), Faculty of Pharmacy, University of Sevilla

1978-1981 Lecturer (Prof. Adjunto), Microbiology, University College of Alicante

1991-1997 Professor of Microbiology, University of Alicante

1989-1997 Head of the Department of Genetics and Microbiology, University of Alicante

1997-present Professor of Microbiology, Evolutionary Genomics Group, University Miguel Hernandez de Elche

Publications

A total of 212 peer-reviewed articles published (including 2 Science/Nature articles, 1 PNAS); Editor of 2 books and one on-line encyclopedia. Bibliography parameters: ISI H-index **52**; Scopus H-index-**53**; Google Scholar H index **65**, **Total citations (Google Scholar) 13300, since 2009, 5032.**

Publications as listed in NCBI

(<http://www.ncbi.nlm.nih.gov/pubmed/?term=rodriguez-valera%20f>)

1: Ghai R, Mehrshad M, Megumi Mizuno C, Rodriguez-Valera F. Metagenomic recovery of phage genomes of uncultured freshwater actinobacteria. ISME J. 2016 Aug 9. doi: 10.1038/ismej.2016.110. [Epub ahead of print] PubMed PMID: 27505348.

- 2: Ivanova EP, López-Pérez M, Webb HK, Ng HJ, Dang TH, Zhukova NV, Mikhailov VV, Crawford RJ, Rodríguez-Valera F. *Thalassospira australica* sp. nov. isolated from sea water. *Antonie Van Leeuwenhoek*. 2016 Aug;109(8):1091-100. doi: 10.1007/s10482-016-0710-9. Epub 2016 May 14. PubMed PMID: 27180097.
- 3: Mizuno CM, Ghai R, Saghai A, López-García P, Rodríguez-Valera F. Genomes of Abundant and Widespread Viruses from the Deep Ocean. *MBio*. 2016 Jul 26;7(4). pii: e00805-16. doi: 10.1128/mBio.00805-16. PubMed PMID: 27460793.
- 4: López-Pérez M, Rodríguez-Valera F. Pangenome Evolution in the Marine Bacterium *Alteromonas*. *Genome Biol Evol*. 2016 Jun 3;8(5):1556-70. doi: 10.1093/gbe/evw098. PubMed PMID: 27189983; PubMed Central PMCID: PMC4898812.
- 5: Rodríguez-Valera F, Martín-Cuadrado AB, López-Pérez M. Flexible genomic islands as drivers of genome evolution. *Curr Opin Microbiol*. 2016 Jun;31:154-60. doi: 10.1016/j.mib.2016.03.014. Epub 2016 Apr 14. Review. PubMed PMID: 27085300.
- 6: Mojica FJ, Rodríguez-Valera F. The discovery of CRISPR in archaea and bacteria. *FEBS J*. 2016 May 27. doi: 10.1111/febs.13766. [Epub ahead of print] Review. PubMed PMID: 27234458.
- 7: Mehrshad M, Amoozegar MA, Ghai R, Shahzadeh Fazeli SA, Rodríguez-Valera F. Genome Reconstruction from Metagenomic Data Sets Reveals Novel Microbes in the Brackish Waters of the Caspian Sea. *Appl Environ Microbiol*. 2016 Jan 4;82(5):1599-612. doi: 10.1128/AEM.03381-15. PubMed PMID: 26729711; PubMed Central PMCID: PMC4771326.
- 8: López-Pérez M, Kimes NE, Haro-Moreno JM, Rodríguez-Valera F. Not All Particles Are Equal: The Selective Enrichment of Particle-Associated Bacteria from the Mediterranean Sea. *Front Microbiol*. 2016 Jun 22;7:996. doi: 10.3389/fmicb.2016.00996. eCollection 2016. PubMed PMID: 27446036; PubMed Central PMCID: PMC4916215.
- 9: Vavourakis CD, Ghai R, Rodríguez-Valera F, Sorokin DY, Tringe SG, Hugenholtz P, Muyzer G. Metagenomic Insights into the Uncultured Diversity and Physiology of Microbes in Four Hypersaline Soda Lake Brines. *Front Microbiol*. 2016 Feb 25;7:211. doi: 10.3389/fmicb.2016.00211. eCollection 2016. PubMed PMID: 26941731; PubMed Central PMCID: PMC4766312.
- 10: León MJ, Rodríguez-Olmos A, Sánchez-Porro C, López-Pérez M, Rodríguez-Valera F, Soliveri J, Ventosa A, Copa-Patiño JL. *Spiribacter curvatus* sp. nov., a moderately halophilic bacterium isolated from a saltern. *Int J Syst Evol Microbiol*. 2015 Dec;65(12):4638-43. PubMed PMID: 26394793.

11: Martin-Cuadrado AB, Pašić L, Rodríguez-Valera F. Diversity of the cell-wall associated genomic island of the archaeon *Haloquadratum walsbyi*. *BMC Genomics*. 2015 Aug 13;16:603. doi: 10.1186/s12864-015-1794-8. PubMed PMID: 26268990; PubMed Central PMCID: PMC4535781.

12: Martin-Cuadrado AB, Garcia-Heredia I, Moltó AG, López-Úbeda R, Kimes N, López-García P, Moreira D, Rodríguez-Valera F. A new class of marine Euryarchaeota group II from the Mediterranean deep chlorophyll maximum. *ISME J*. 2015 Jul;9(7):1619-34. doi: 10.1038/ismej.2014.249. Epub 2014 Dec 23. PubMed PMID: 25535935; PubMed Central PMCID: PMC4478702.

13: Kimes NE, López-Pérez M, Flores-Félix JD, Ramírez-Bahena MH, Igual JM, Peix A, Rodríguez-Valera F, Velázquez E. *Pseudorhizobium pelagicum* gen. nov., sp. nov. isolated from a pelagic Mediterranean zone. *Syst Appl Microbiol*. 2015 Jul;38(5):293-9. doi: 10.1016/j.syapm.2015.05.003. Epub 2015 May 29. PubMed PMID: 26078205.

14: Mizuno CM, Rodríguez-Valera F, Ghai R. Genomes of planktonic Acidimicrobiales: widening horizons for marine Actinobacteria by metagenomics. *MBio*. 2015 Feb 10;6(1). pii: e02083-14. doi: 10.1128/mBio.02083-14. PubMed PMID: 25670777; PubMed Central PMCID: PMC4337565.

15: López-Pérez M, Rodríguez-Valera F, Webb HK, Crawford RJ, Ivanova EP. Correction for López-Pérez et al., Genome Sequence of "*Thalassospira australica*" NP3b2T Isolated from St. Kilda Beach, Tasman Sea. *Genome Announc*. 2015 Jan 22;3(1). pii: e01453-14. doi: 10.1128/genomeA.01453-14. PubMed PMID: 25614566; PubMed Central PMCID: PMC4319594.

16: Ivanova EP, López-Pérez M, Zabalos M, Nguyen SH, Webb HK, Ryan J, Lagutin K, Vyssotski M, Crawford RJ, Rodríguez-Valera F. Ecophysiological diversity of a novel member of the genus *Alteromonas*, and description of *Alteromonas mediterranea* sp. nov. *Antonie Van Leeuwenhoek*. 2015 Jan;107(1):119-32. doi: 10.1007/s10482-014-0309-y. Epub 2014 Oct 19. PubMed PMID: 25326795.

17: Zhang CL, Xie W, Martin-Cuadrado AB, Rodríguez-Valera F. Marine Group II Archaea, potentially important players in the global ocean carbon cycle. *Front Microbiol*. 2015 Oct 13;6:1108. doi: 10.3389/fmicb.2015.01108. eCollection 2015. Review. PubMed PMID: 26528260; PubMed Central PMCID: PMC4602124.

18: Carda-Diéguez M, Mizuno CM, Ghai R, Rodríguez-Valera F, Amaro C. Replicating phages in the epidermal mucosa of the eel (*Anguilla anguilla*). *Front Microbiol*. 2015 Jan 29;6:3. doi: 10.3389/fmicb.2015.00003. eCollection 2015. PubMed PMID: 25688234; PubMed Central PMCID: PMC4310352.

19: Ghai R, Mizuno CM, Picazo A, Camacho A, Rodriguez-Valera F. Key roles for freshwater Actinobacteria revealed by deep metagenomic sequencing. *Mol Ecol*. 2014 Dec;23(24):6073-90. doi: 10.1111/mec.12985. Epub 2014 Nov 21. PubMed PMID: 25355242.

20: López-Pérez M, Rodriguez-Valera F, Webb HK, Crawford RJ, Ivanova EP. Genome Sequence of "Thalassospira australica" NP3b2T Isolated from St. Kilda Beach, Tasman Sea. *Genome Announc*. 2014 Nov 13;2(6). pii: e01139-14. doi: 10.1128/genomeA.01139-14. PubMed PMID: 25395631; PubMed Central PMCID: PMC4241657.

21: Carda-Diéguez M, Ghai R, Rodriguez-Valera F, Amaro C. Metagenomics of the mucosal microbiota of European eels. *Genome Announc*. 2014 Nov 6;2(6). pii: e01132-14. doi: 10.1128/genomeA.01132-14. PubMed PMID: 25377710; PubMed Central PMCID: PMC4223461.

22: Kimes NE, López-Pérez M, Ausó E, Ghai R, Rodriguez-Valera F. RNA sequencing provides evidence for functional variability between naturally co-existing *Alteromonas macleodii* lineages. *BMC Genomics*. 2014 Oct 26;15:938. doi: 10.1186/1471-2164-15-938. PubMed PMID: 25344729; PubMed Central PMCID: PMC4223743.

23: Guo MY, Huo DQ, Ghai R, Rodriguez-Valera F, Shen CH, Zhang N, Zhang SY, Hou CJ. Metagenomics of ancient fermentation pits used for the production of chinese strong-aroma liquor. *Genome Announc*. 2014 Oct 23;2(5). pii: e01045-14. doi: 10.1128/genomeA.01045-14. PubMed PMID: 25342677; PubMed Central PMCID: PMC4208321.

24: Ventosa A, Fernández AB, León MJ, Sánchez-Porro C, Rodriguez-Valera F. The Santa Pola saltern as a model for studying the microbiota of hypersaline environments. *Extremophiles*. 2014 Sep;18(5):811-24. doi: 10.1007/s00792-014-0681-6. Epub 2014 Aug 17. Review. PubMed PMID: 25129545.

25: León MJ, Fernández AB, Ghai R, Sánchez-Porro C, Rodriguez-Valera F, Ventosa A. From metagenomics to pure culture: isolation and characterization of the moderately halophilic bacterium *Spiribacter salinus* gen. nov., sp. nov. *Appl Environ Microbiol*. 2014 Jul;80(13):3850-7. doi: 10.1128/AEM.00430-14. Epub 2014 Apr 18. PubMed PMID: 24747894; PubMed Central PMCID: PMC4054224.

26: López-Pérez M, Gonzaga A, Ivanova EP, Rodriguez-Valera F. Genomes of *Alteromonas australica*, a world apart. *BMC Genomics*. 2014 Jun 18;15:483. doi: 10.1186/1471-2164-15-483. PubMed PMID: 24942065; PubMed Central PMCID: PMC4119200.

- 27: Deschamps P, Zivanovic Y, Moreira D, Rodriguez-Valera F, López-García P. Pangenome evidence for extensive interdomain horizontal transfer affecting lineage core and shell genes in uncultured planktonic thaumarchaeota and euryarchaeota. *Genome Biol Evol.* 2014 Jun 12;6(7):1549-63. doi: 10.1093/gbe/evu127. PubMed PMID: 24923324; PubMed Central PMCID: PMC4122925.
- 28: Fernández AB, Ghai R, Martin-Cuadrado AB, Sánchez-Porro C, Rodriguez-Valera F, Ventosa A. Prokaryotic taxonomic and metabolic diversity of an intermediate salinity hypersaline habitat assessed by metagenomics. *FEMS Microbiol Ecol.* 2014 Jun;88(3):623-35. doi: 10.1111/1574-6941.12329. Epub 2014 Apr 28. PubMed PMID: 24661078.
- 29: Syutkin AS, Pyatibratov MG, Galzitskaya OV, Rodríguez-Valera F, Fedorov OV. Haloarcula marismortui archaeal genes as ecoparalogs. *Extremophiles.* 2014 Mar;18(2):341-9. doi: 10.1007/s00792-013-0619-4. Epub 2013 Dec 25. PubMed PMID: 24368632.
- 30: Rodriguez-Valera F, Mizuno CM, Ghai R. Tales from a thousand and one phages. *Bacteriophage.* 2014 Jan 1;4(1):e28265. Epub 2014 Feb 18. PubMed PMID: 24616837; PubMed Central PMCID: PMC3945994.
- 31: López-Pérez M, Martin-Cuadrado AB, Rodriguez-Valera F. Homologous recombination is involved in the diversity of replacement flexible genomic islands in aquatic prokaryotes. *Front Genet.* 2014 May 22;5:147. doi: 10.3389/fgene.2014.00147. eCollection 2014. PubMed PMID: 24904647; PubMed Central PMCID: PMC4033161.
- 32: Fernández AB, Vera-Gargallo B, Sánchez-Porro C, Ghai R, Papke RT, Rodriguez-Valera F, Ventosa A. Comparison of prokaryotic community structure from Mediterranean and Atlantic saltern concentrator ponds by a metagenomic approach. *Front Microbiol.* 2014 May 8;5:196. doi: 10.3389/fmicb.2014.00196. eCollection 2014. PubMed PMID: 24847316; PubMed Central PMCID: PMC4021199.
- 33: Mizuno CM, Ghai R, Rodriguez-Valera F. Evidence for metaviromic islands in marine phages. *Front Microbiol.* 2014 Feb 3;5:27. doi: 10.3389/fmicb.2014.00027. eCollection 2014. PubMed PMID: 24550898; PubMed Central PMCID: PMC3909814.
- 34: Park SJ, Ghai R, Martín-Cuadrado AB, Rodríguez-Valera F, Chung WH, Kwon K, Lee JH, Madsen EL, Rhee SK. Genomes of two new ammonia-oxidizing archaea enriched from deep marine sediments. *PLoS One.* 2014 May 5;9(5):e96449. doi: 10.1371/journal.pone.0096449. eCollection 2014. PubMed PMID: 24798206; PubMed Central PMCID: PMC4010524.

35: Fernandez AB, Ghai R, Martin-Cuadrado AB, Sanchez-Porro C, Rodriguez-Valera F, Ventosa A. Metagenome sequencing of prokaryotic microbiota from two hypersaline ponds of a marine saltern in Santa Pola, Spain. *Genome Announc.* 2013 Nov 14;1(6). pii: e00933-13. doi: 10.1128/genomeA.00933-13. PubMed PMID: 24233589; PubMed Central PMCID: PMC3828313.

36: López-Pérez M, Ghai R, Leon MJ, Rodríguez-Olmos Á, Copa-Patiño JL, Soliveri J, Sanchez-Porro C, Ventosa A, Rodríguez-Valera F. Genomes of "Spiribacter", a streamlined, successful halophilic bacterium. *BMC Genomics.* 2013 Nov 13;14:787. doi: 10.1186/1471-2164-14-787. PubMed PMID: 24225341; PubMed Central PMCID: PMC3832224.

37: Garcia-Heredia I, Rodriguez-Valera F, Martin-Cuadrado AB. Novel group of podovirus infecting the marine bacterium *Alteromonas macleodii*. *Bacteriophage.* 2013 Apr 1;3(2):e24766. PubMed PMID: 24228219; PubMed Central PMCID: PMC3821669.

38: López-Pérez M, Gonzaga A, Martin-Cuadrado AB, López-García P, Rodríguez-Valera F, Kimes NE. Intra- and intergenomic variation of ribosomal RNA operons in concurrent *Alteromonas macleodii* strains. *Microb Ecol.* 2013 Apr;65(3):720-30. doi: 10.1007/s00248-012-0153-4. Epub 2012 Dec 28. PubMed PMID: 23269455.

39: Mizuno CM, Rodriguez-Valera F, Garcia-Heredia I, Martin-Cuadrado AB, Ghai R. Reconstruction of novel cyanobacterial siphovirus genomes from Mediterranean metagenomic fosmids. *Appl Environ Microbiol.* 2013 Jan;79(2):688-95. doi: 10.1128/AEM.02742-12. Epub 2012 Nov 16. PubMed PMID: 23160125; PubMed Central PMCID: PMC3553755.

40: Leon MJ, Ghai R, Fernandez AB, Sanchez-Porro C, Rodriguez-Valera F, Ventosa A. Draft Genome of *Spiribacter salinus* M19-40, an Abundant Gammaproteobacterium in Aquatic Hypersaline Environments. *Genome Announc.* 2013 Jan;1(1). pii: e00179-12. doi: 10.1128/genomeA.00179-12. Epub 2013 Feb 14. PubMed PMID: 23409269; PubMed Central PMCID: PMC3569344.

41: López-Pérez M, Gonzaga A, Rodriguez-Valera F. Genomic diversity of "deep ecotype" *Alteromonas macleodii* isolates: evidence for Pan-Mediterranean clonal frames. *Genome Biol Evol.* 2013;5(6):1220-32. doi: 10.1093/gbe/evt089. PubMed PMID: 23729633; PubMed Central PMCID: PMC3698932.

42: Mizuno CM, Rodriguez-Valera F, Kimes NE, Ghai R. Expanding the marine virosphere using metagenomics. *PLoS Genet.* 2013;9(12):e1003987. doi: 10.1371/journal.pgen.1003987. Epub 2013 Dec 12. PubMed PMID: 24348267; PubMed Central PMCID: PMC3861242.

- 43: Mizuno CM, Kimes NE, López-Pérez M, Ausó E, Rodríguez-Valera F, Ghai R. A hybrid NRPS-PKS gene cluster related to the bleomycin family of antitumor antibiotics in *Alteromonas macleodii* strains. *PLoS One*. 2013 Sep 19;8(9):e76021. doi: 10.1371/journal.pone.0076021. eCollection 2013. PubMed PMID: 24069455; PubMed Central PMCID: PMC3777966.
- 44: Ghai R, Mizuno CM, Picazo A, Camacho A, Rodríguez-Valera F. Metagenomics uncovers a new group of low GC and ultra-small marine Actinobacteria. *Sci Rep*. 2013;3:2471. doi: 10.1038/srep02471. PubMed PMID: 23959135; PubMed Central PMCID: PMC3747508.
- 45: Gonzaga A, López-Pérez M, Martín-Cuadrado AB, Ghai R, Rodríguez-Valera F. Complete genome sequence of the copiotrophic marine bacterium *Alteromonas macleodii* strain ATCC 27126T. *J Bacteriol*. 2012 Dec;194(24):6998. doi: 10.1128/JB.01565-12. PubMed PMID: 23209244; PubMed Central PMCID: PMC3510622.
- 46: Park SJ, Kim JG, Jung MY, Kim SJ, Cha IT, Ghai R, Martín-Cuadrado AB, Rodríguez-Valera F, Rhee SK. Draft genome sequence of an ammonia-oxidizing archaeon, "Candidatus Nitrosopumilus sediminis" AR2, from Svalbard in the Arctic Circle. *J Bacteriol*. 2012 Dec;194(24):6948-9. doi: 10.1128/JB.01869-12. PubMed PMID: 23209211; PubMed Central PMCID: PMC3510607.
- 47: Park SJ, Ghai R, Martín-Cuadrado AB, Rodríguez-Valera F, Jung MY, Kim JG, Rhee SK. Draft genome sequence of the sulfur-oxidizing bacterium "Candidatus Sulfurovum sediminum" AR, which belongs to the Epsilonproteobacteria. *J Bacteriol*. 2012 Aug;194(15):4128-9. doi: 10.1128/JB.00741-12. PubMed PMID: 22815446; PubMed Central PMCID: PMC3416546.
- 48: Ghai R, McMahon KD, Rodríguez-Valera F. Breaking a paradigm: cosmopolitan and abundant freshwater actinobacteria are low GC. *Environ Microbiol Rep*. 2012 Feb;4(1):29-35. doi: 10.1111/j.1758-2229.2011.00274.x. Epub 2011 Aug 22. PubMed PMID: 23757226.
- 49: Rodríguez-Valera F, Ussery DW. Is the pan-genome also a pan-selectome? *F1000Res*. 2012 Sep 21;1:16. doi: 10.12688/f1000research.1-16.v1. eCollection 2012. PubMed PMID: 24358823; PubMed Central PMCID: PMC3782348.
- 50: Gonzaga A, Martín-Cuadrado AB, López-Pérez M, Megumi Mizuno C, García-Heredia I, Kimes NE, Lopez-García P, Moreira D, Ussery D, Zaballos M, Ghai R, Rodríguez-Valera F. Polyclonality of concurrent natural populations of *Alteromonas macleodii*. *Genome Biol Evol*. 2012;4(12):1360-74. doi: 10.1093/gbe/evs112. PubMed PMID: 23212172; PubMed Central PMCID: PMC3542563.

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52: López-Pérez M, Gonzaga A, Martin-Cuadrado AB, Onyshchenko O, Ghavidel A, Ghai R, Rodríguez-Valera F. Genomes of surface isolates of *Alteromonas macleodii*: the life of a widespread marine opportunistic copiotroph. *Sci Rep*. 2012;2:696. Epub 2012 Sep 26. PubMed PMID: 23019517; PubMed Central PMCID: PMC3458243.

53: Ghai R, Hernandez CM, Picazo A, Mizuno CM, Ininbergs K, Díez B, Valas R, DuPont CL, McMahon KD, Camacho A, Rodríguez-Valera F. Metagenomes of Mediterranean coastal lagoons. *Sci Rep*. 2012;2:490. doi: 10.1038/srep00490. Epub 2012 Jul 3. PubMed PMID: 22778901; PubMed Central PMCID: PMC3391805.

54: Brochier-Armanet C, Deschamps P, López-García P, Zivanovic Y, Rodríguez-Valera F, Moreira D. Complete-fosmid and fosmid-end sequences reveal frequent horizontal gene transfers in marine uncultured planktonic archaea. *ISME J*. 2011 Aug;5(8):1291-302. doi: 10.1038/ismej.2011.16. Epub 2011 Feb 24. PubMed PMID: 21346789; PubMed Central PMCID: PMC3146271.

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58: Mira A, Martín-Cuadrado AB, D'Auria G, Rodríguez-Valera F. The bacterial pan-genome: a new paradigm in microbiology. *Int Microbiol*. 2010 Jun;13(2):45-57.

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59: Rodriguez-Brito B, Li L, Wegley L, Furlan M, Angly F, Breitbart M, Buchanan J, Desnues C, Dinsdale E, Edwards R, Felts B, Haynes M, Liu H, Lipson D, Mahaffy J, Martin-Cuadrado AB, Mira A, Nulton J, Pasić L, Rayhawk S, Rodriguez-Mueller J, Rodriguez-Valera F, Salamon P, Srinagesh S, Thingstad TF, Tran T, Thurber RV, Willner D, Youle M, Rohwer F. Viral and microbial community dynamics in four aquatic environments. *ISME J.* 2010 Jun;4(6):739-51. doi: 10.1038/ismej.2010.1. Epub 2010 Feb 11. PubMed PMID: 20147985.

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63: Ivars-Martinez E, Martin-Cuadrado AB, D'Auria G, Mira A, Ferriera S, Johnson J, Friedman R, Rodriguez-Valera F. Comparative genomics of two ecotypes of the marine planktonic copiotroph *Alteromonas macleodii* suggests alternative lifestyles associated with different kinds of particulate organic matter. *ISME J.* 2008 Dec;2(12):1194-212. doi: 10.1038/ismej.2008.74. Epub 2008 Jul 31. PubMed PMID: 18670397.

64: Quaiser A, López-García P, Zivanovic Y, Henn MR, Rodriguez-Valera F, Moreira D. Comparative analysis of genome fragments of *Acidobacteria* from deep Mediterranean plankton. *Environ Microbiol.* 2008 Oct;10(10):2704-17. doi: 10.1111/j.1462-2920.2008.01691.x. Epub 2008 Jul 8. PubMed PMID: 18627413.

65: Ivars-Martínez E, D'Auria G, Rodríguez-Valera F, Sánchez-Porro C, Ventosa A, Joint I, Mühlhng M. Biogeography of the ubiquitous marine bacterium *Alteromonas macleodii* determined by multilocus sequence analysis. *Mol Ecol.* 2008 Sep;17(18):4092-106. PubMed PMID: 19238708.

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National and International Research Grants (since 2000):

- **“Evolución del Genoma de *Escherichia coli*, naturaleza del DNA de distribución opcional en diferentes cepas de la colección ECOR y del DNA diferencial en diferentes cepas uropatógenas (G.B2).”** Principal investigator: Francisco Rodríguez Valera Ref. **PM00-0078** (MEC 2000-2003) FUNDING: 60,133€
- **“Caracterización de la microbiota asociada a invertebrados marinos productores de sustancias con potencial interés farmacológico”** Principal Investigator: Francisco Rodríguez Valera. Ref. **AR\BIO2000-085-P4-04** (MEC 2001-2004). FUNDING: 100,970.04€
- **“Microbial Marine Communities Diversity: From Culture to Function (MIRACLE)”** ACCIONES ESPECIALES I+D+I Principal Investigator: Francisco Rodríguez Valera Ref. **BIO2002-10816-E**. FUNDING: 48.000€
- **“Gene Discovery through Environmental Metagenomics (GEMINI)”** ACCIONES ESPECIALES I+D+I Principal Investigator: Francisco Rodríguez Valera Ref. **BIO2002-10815-E** FUNDING: 36.000€
- **“Estudio Metagenómico del bacterioplancton en el Mar Mediterráneo profundo”**
Principal Investigator: Francisco Rodríguez Valera Ref. **CTM2005-04564** (MEC 2005-2008) FUNDING: 50,000€
- **“Microbial Diversity in Aquatic Systems (MIDAS)”** Principal Investigator: Francisco Rodríguez Valera. European Commission: 1998-2001. Ref. **MAS3-CT97-0154**. FUNDING: 200,000€
- **“Marine Communities Diversity: From Culture to Function (MIRACLE)”** Principal Investigator (**COORDINATOR**): Francisco Rodríguez Valera. European Commission: 2003-2005. Ref. **EVK3-CT-2002-00087**. FUNDING: 295,779€
- **“Gene Discovery through Environmental Metagenomics (GEMINI)”**. Principal Investigator: Francisco Rodríguez Valera, European Commission 2002-2006. Ref. **QLK3-CT-2002-02056** FUNDING: 255,350€
- **“Secuenciación y análisis de 65 fósidos de librerías metagenómicas del Mediterráneo”** Ref. GEN2007-30014-E. MEC. 2008. Principal investigator: Francisco Rodríguez Valera. FUNDING: 25000€
- **“Genomique Evolutive et des Populations de Microorganismes Non-cultivables de L’Ocean Profond”**. Agence National de la Recherche – ANR (France). 2008. Principal investigator: Purificación López García. Other investigators: Francisco Rodríguez Valera, David Moreira, Celine Brochier-Armanet, Yvan Zivanovic, Ana Belén Martín Cuadrado
- **“Identificación de bioindicadores microbianos en la rizosfera de quercineas (*Quercus ilex ballota* and *Q. pyrenaica*) asociados a cambio climático y evolución post-incendio”**. Junta de Andalucía. Programa de Incentivos a los Agentes del Sistema Andaluz del Conocimiento. 2008. Principal investigator: Manuel Fernández López, Investigador del CSIC, Estación Experimental del Zaidin, CSIC. Other Investigators: Francisco Rodríguez Valera, Ana Belén Martín Cuadrado.
- **“Identificación de nuevos compuestos naturales de origen marino con potencial aplicación terapéutica e industrial”**. Ministerio de Educación y Ciencia, Plan Nacional de I+D+I, Programa de fomento de la Investigación Técnica (PROFIT). UMH (Francisco Rodríguez Valera) and MEDITERRÁNEO SERVICIOS MARINOS. Nº CONVENIO 170/07 (20-DIC-2007). 2007- 2009. 2007:10000€, 2008: 30000€, 2009: 30.000 €

- **"Metagenomics and dynamics of prokaryotes genomes (MAGYK)".** Ref. **BIO2008-02444**. MICINN. 2008. (2008/9-2012/3). Principal investigator: Francisco Rodríguez Valera. FUNDING: 330000€
- **"Microbial comparative genomics (MICROGEN)". CONSOLIDER-INGENIO PROGRAMME.** Ref. CSD2009-00006. MICINN. 2009. (2009/12-2014/12). Coordinator: Francisco Rodríguez Valera. FUNDING: 3.800.000 €
- **"Diversidad Genética del Mar Mediterráneo por Metagenómica (DIMEGEN)". Proyecto Prometeo 2010.** Ref. PROMETEO/2010/89. CONSELLERÍA DE EDUCACIÓN, GENERALITAT VALENCIANA. 2010. (2010/01-2010/12). Principal investigator: Francisco Rodríguez Valera. FUNDING: 46.500 €

10 Selected Peer-reviewed publications

1. Expanding the marine virosphere using metagenomics. Mizuno CM, **Rodríguez-Valera F**, Kimes NE, Ghai R. PLoS Genet. 2013 Dec;9(12):e1003987. doi: 10.1371/journal.pgen.1003987. Epub 2013 Dec 12.
2. Metagenomics uncovers a new group of low GC and ultra-small marine Actinobacteria. Ghai R, Mizuno CM, Picazo A, Camacho A, **Rodríguez-Valera F**. Sci Rep. 2013;3:2471. doi: 10.1038/srep02471.
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4. Metagenome of the Mediterranean deep chlorophyll maximum studied by direct and fosmid library 454 pyrosequencing. Rohit Ghai, Ana-Belén Martín-Cuadrado, Aitor Gonzaga Molto, Inmaculada García Heredia, Raúl Cabrera, Javier Martín, Miguel Verdú, Philippe Deschamps, David Moreira, Purificación López-García, Alex Mira, **Rodríguez-Valera, F**. ISME Journal, (2010).
5. Explaining microbial population genomics through phage predation . **F. Rodríguez-Valera**, Ana-Belen Martín-Cuadrado, Beltran Rodríguez-Brito, T. Frede Thingstad, Forest Rohwer, Alex Mira.. Nature Reviews Microbiology, 7: 826-836 (2009).
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Advisor of Ph.D. Thesis: (21)

Guadalupe Juez - 1982.
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Cristina Zoffmann - 1984.
Marina Torreblanca - 1989.
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Michaela Dane - 1992
Francisco Juan Martínez Mojica - 1993
Susana Benlloch - 1995
Jesús García-Martínez - 1996
Amparo Zavaleta - 1996
Consuelo Ferrer Rodríguez – 1997
Ana Isabel Antón García-1999
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M^aJose Alcántara Noalles-2001
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Sara P. Luz-2002
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Complete list of publications:

11. Estudio taxonómico de 28 cepas de género *Halococcus* procedente de una salina solar". F. Ramón, **F. Rodríguez Valera**, F. Ruiz-Berraquero y A. Ramos-Cormenzana. *Ars Pharmaceutica*, 18: 363-372 (1977)
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