Part A. PERSONAL INFORMATION

CV date	15-07-2020

First and Family	Eduardo Rodriguez Bejarano

A.1. Current position

Name of University/Institution	Instituto de Hortofruticultura Subtropical y Mediterranea- University of Malaga (IHSM-UMA-CSIC)
Department	Genetics Depart. (UMA) / Plant-virus Interaction Depart. (IHSM)

A.3. JCR articles, h Index, thesis supervise

JCR articles: 80 publications in journals publications ISI

h-index: 31

Total number of citations: 3349

Number of PhD. Thesis supervised: 19

Part C. RELEVANT MERITS

C.1. Publications (last the years)

1. Czosnek H, Eybishtz A, Sade D, Gorovits R., Sobol I., **Bejarano ER**, Rosas-Díaz T and Lozano-Durán R. Discovering host genes involved in the infection by the Tomato yellow leaf curl virus complex and in the establishment of resistance to the virus using Tobacco rattle virus-based post transcriptional gene silencing. Viruses 5: 998-1022 (2013).
2. Rodríguez Negrete E, Lozano-Durán R, Cruzado L, **Bejarano ER** and AG Castillo.Geminivirus Rep reduces the DNA methyltransferases MET1 and CMT3 to supress DNA methylation-mediated gene silencin. New Phytol. 199: 464–475 (2013).
3. Cañizares MC, Lozano-Durán R, Canto T., **Bejarano ER,** Bisaro DM, Navas-Castillo J, and Moriones E. Effects of the crinivirus CP-interacting plant protein SAHH on post-transcriptional RNA silencing and its suppression. Mol Plant Microbe Interact. 26: 1004-1015 (2013).
4. Hanley-Bowdoin L, **Bejarano ER,** Robertson D and Mansoor S. Geminiviruses: masters at redirecting and reprogramming plant processes. Nature Microbiology Review 11, 777-788 (2013).
5. García I, Rosas T, **Bejarano ER,** Gotor C, Romero LC. Transient transcriptional regulation of the CYS-C1 gene and cyanide accumulation upon pathogen infection in the plant immune response. Plant Physiol. 162: 2015-27 (2013).
6. Rodríguez-Negrete, E A. S Sánchez-Campos, Cañizares M. C, Navas-Castillo J., Moriones E., **Bejarano ER**. and Grande-Pérez A. A sensitive method for the quantification of virion-sense and complementary-sense DNA strands of circular single-stranded DNA viruses. Sci Rep 4:6438 (2014).
7. Canizares MC., Rosas-Díaz T., Rodríguez-Negrete E., Hogenhout SA., Bedford ID., **Bejarano ER**., Navas-Castillo J. and Moriones E. Arabidopsis thaliana, an experimental host for tomato yellow leaf curl disease-associated begomoviruses by agroinoculation and whitefly transmission. Plant Pathology (2014).
8. Rufian JS., Lucía A., Macho AP., Orozco-Navarrete B., Arroyo-Mateos MA., **Bejarano ER.** Beuzón CR. Ruiz-Albert J. Auto-acetylation on K289 is not essential for HopZ1a-mediated plant defense suppression. Front Micro (2015) 6:684.
9. Castro PH, Verde N, Lourenço T, Magalhães AP, Tavares RM, **Bejarano ER**, Azevedo H. 2015. SIZ1-dependent post-translational modification by SUMO modulates sugar signalling and metabolism in Arabidopsis thaliana. Plant and Cell Physiology 56: 2297–2311 (2015).
10. Castro PH, Couto D, Freitas S, Verde N, Macho AP, Huguet S, Botella MA, Ruiz Albert J, Tavares RM, **Bejarano ER**, Azevedo H (2016) SUMO proteases ULP1c and ULP1d are required for development and osmotic stress responses in Arabidopsis. Plant Mol Bio. 92: 143-159
11. Rosas-Díaz T., Macho AP., Beuzón CR., Lozano-Durán R. and **Bejarano ER.** The C2 Protein from the Geminivirus Tomato Yellow Leaf Curl Sardinia Virus Decreases Sensitivity to Jasmonates and Suppresses Jasmonate-Mediated Defences. Plants 5: 8 (2016).
12. González Plaza JJ., Ortiz Martín I., Muñoz Mérida A., García López C., Sánchez Sevilla JF, Luque F., Trelles O., **Bejarano ER.,** de la Rosa R., Valpuesta V. and Beuzón CR. Transcriptomic analysis using olive varieties and breeding progenies identify candidate genes involved in plant architecture. Front Plant Sci. 7: 240 (2016).
13. Sánchez-Campos S., Rodríguez-Negrete EA., Cruzado L., Grande-Pérez A., **Bejarano ER.,** Navas-Castillo J., Moriones E. Tomato yellow leaf curl virus: No evidence for replication in the insect vector Bemisia tabaci. Sci Rep. 6:30942 (2016)
14. Luna AP., Rodríguez-Negrete E.A., Morilla, Castillo AG., Soubigou-Taconnat L. and. **Bejarano ER**. V2 from a curtovirus is a suppressor of post-transcriptional gene silencing. J Gen Virol. 98:2607-2614 (2017).

15. Rosas-Dıaz T., Cana-Quijada P., Amorim-Silva V., Botella MA., Lozano-Duran R. and **Bejarano ER**. Arabidopsis NahG Plants as a Suitable and Efficient System for Transient Expression using Agrobacterium tumefaciens. Mol Plant 10, 353–356 (2017).
16. Rosas-Diaz T., Zhang D., Fan P., Wang L., Ding X., Jiang Y., Jimenez-Gongora T., Medina-Puche L., Zhao X, Feng Z., Zhang G, Liu X., **Bejarano** ER., Tan L., Zhu JK., Xing W., Faulkner C, Nagawa S., Lozano-Duran R. A plant receptor-like kinase promotes cell-to-cell spread of RNAi and is targeted by a virus. Proc Natl Acad Sci USA. 115: 1388-1393 (2018).
17. Castro PH, Verde N, Tavares RM, **Bejarano ER.** and, Azevedo H. Sugar signaling regulation by arabidopsis SIZ1-driven sumoylation is independent of salicylic acid. Plant Signal Behav (2018) e1179417
18. Arroyo-Mateos M., Sabarit B., Maio F., Sánchez-Durán MA., Rosas-Díaz T., Prins M., Ruiz-Albert J., Luna AP., van der Burg HA. and **Bejarano ER.** Geminivirus Replication Protein impairs SUMO conjugation of PCNA at two acceptor sites. J Virology 92: e00611-18 (2018).
19. Castro PH, Santos MA, Freitas S, Cana-Quijada P, Lourenço T, Rodrigues MAA, Fonseca F, Ruiz Albert F, Azevedo JE, Manuel Tavares R, Castillo AGC, **Bejarano ER** and Azevedo H. Arabidopsis thaliana SPF1 and SPF2 are nuclear-located ULP2-like SUMO proteases that act downstream of SIZ1 in plant development. J. Exp Bot. 69:4633-4649 (2018).
20. Castro PH, Bachmair A, **Bejarano ER,** Coupland G, Lois LM, Sadanandom A, van den Burg HA, Vierstra RD and Azevedo H. Revised nomenclature and functional overview of the ULP gene family of plant deSUMOylating proteases. J. Exp Bot. 69:4505-4509 (2018).
21. Piedra-Aguilera A, Jiao C, Luna AP, Villanueva-Montiel F, Dabad M, Esteve-Codina A, Diaz-Pendon JA, Fei Z, **Bejarano ER** and Castillo AG. Integrated single-base resolution maps of transcriptome, sRNAome and methylome of Tomato yellow leaf curl virus in tomato. Sci Rep (2019). 9(1):2863.
22. Maio F, Arroyo-Mateos M, Bobay BG, **Bejarano ER**, Prins M and van den Burg HA. A lysine residue essential for geminivirus replication also controls nuclear localization of the Tomato yellow leaf curl virus Rep protein. J Virol. (2019) 93(10). pii: e01910-18.
23. Rodríguez-Negrete EA, Morales-Aguilar JJ, Domínguez-Duran G., Torres-Devora G, Camacho-Beltrán E, Leyva-López NE, Voloudakis AE, **Bejarano ER** and Méndez-Lozano J. High-Throughput sequencing reveals differential Begomovirus species diversity in non-cultivated plants in Northern-Pacific Mexico. Viruses. 11(7). pii: E594 (2019).
24. Corrales-Gutierrez M, Medina-Puche L, Yu Y, Wang L, Ding X, Luna AP, **Bejarano ER**, Castillo AG, Lozano-Duran R. The C4 protein from the geminivirus Tomato yellow leaf curl virus confers drought tolerance in Arabidopsis through an ABA-independent mechanism. (2019) Plant Biotechnol J.18: 1121-1123. doi: 10.1111/pbi.13280.
25. Arce-Leal ÁP, Bautista R, Rodríguez-Negrete EA, Manzanilla-Ramírez MÁ, Velázquez-Monreal JJ, Santos-Cervantes ME, Méndez-Lozano J, Beuzón CR, **Bejarano ER**, Castillo AG, Claros MG, Leyva-López NE. Gene Expression Profile of Mexican Lime (Citrus aurantifolia) Trees in Response to Huanglongbing Disease caused by Candidatus Liberibacter asiaticus. Microorganisms. 2020; 8(4):528. doi: 10.3390/microorganisms8040528.
26. Arce-Leal ÁP, Bautista R, Rodríguez-Negrete EA, Manzanilla-Ramírez MÁ, Velázquez-Monreal JJ, Méndez-Lozano J, **Bejarano ER,** Castillo AG, Claros MG, Leyva-López NE. De novo assembly and functional annotation of Citrus aurantifolia transcriptome from Candidatus Liberibacter asiaticus infected and non-infected trees. Data Brief. 2020. 29:105198. doi: 10.1016/j.dib.2020.105198.
27. López-Márquez D, Del-Espino A , **Bejarano ER**, Beuzón CR, Ruiz-Albert J. Protocol: Low Cost Fast and Efficient Generation of Molecular Tools for Small RNA Analysis. Plant Methods. 2020. 16:41.
28. Luna AP, Romero-Rodríguez B, Rosas-Díaz T, Cerero L, Rodríguez-Negrete EA, Castillo AG**, Bejarano ER**. Characterization of Curtovirus V2 Protein, a Functional Homolog of Begomovirus V2. Frontiers in Plant Science. 2020. 11: 835.
29. Cana-Quijada P, Romero-Rodríguez B, Vallejo PG, Castillo AG and **Bejarano ER**. Cutting-edge Technology to Generate Plant Immunity against Geminiviruses. Current Opinion in Virology. 2020. 42:58-64
30. Pozo MJ, Albrectsen BR, **Bejarano ER**, de la Peña E, Herrero S, Martinez-Medina A, Pastor V, Ravnsko S, Williams M, Biere A. Teaching tolls: “Three-Way Interactions between Plants, Microbes, and Arthropods (PMA): Impacts, Mechanisms, and Prospects for Sustainable Plant Protection”. Plant Cell. 2020. tpc.120.tt0720.doi: 10.1105/tpc.120.tt0720
31. Gruden K, Lidoy J, Petek M, Podpečan V, Flors V, Papadopoulou KK, Pappas ML, Martinez-Medina A, **Bejarano E**, Biere A, Pozo M.J. Menage-a-trois: Unraveling the mechanisms regulating plant-microbe-arthropod interactions. Trends in Plant Science. 2020. S1360-1385(20)30219-3.
32. José S. Rufián, James M. Elmore, **Eduardo R. Bejarano**, Alberto P. Macho Carmen R. Beuzon, Gitta L. Coaker. ER bodies are induced by Pseudomonas syringae and negatively regulate immunity. Molecular Planta-Pathogen interactions. 2021. 202. doi: 10.1094/MPMI-11-20-0330-SC
33. Mengshi Wu, Hua Wei, Huang Tan, Shaojun Pan, Qi Liu, **Eduardo R. Bejarano** and Rosa Lozano-Durán. Plant DNA polymerases α and δ mediate replication of geminiviruses. Nature Communications. 2021. 12:2780

34. Diego López-Márquez, Angel Del-Espino, Nieves López-Pagám Edgar Antonio Rodriguez-Negrete, Ignacio Rubio-Somoza, Javier Ruiz-Albert, **Eduardo R Bejarano***, and Carmen Beuzón* MiR825-5p targets TIR-NBS-LRR gene MIST1 and downregulates basal immunity against Pseudomonas syringae in Arabidopsis. Journal of Experimental Botany. 2021. 72:7316.doi: 10.1093/jxb/erab354.
35. Pedro Humberto Castroa, Daniel Coutob, Miguel Angelo Santos, Sara Freitasa, Tiago Louren, Eva Dias, St phanie Huguet, Jorge Marques Silva, Rui Manuel. Tavares, **Eduardo R. Bejarano**, Herlander Azevedoa. SUMO E3 ligase SIZ1 connects sumoylation and reactive oxygen species homeostasis processes in Arabidopsis. Plant Physiology. 2022. kiac085, https://doi.org/10.1093/plphys/kiac085
36. Functional Analysis of V2 Protein of Beet Curly Top Iran Virus. Bahari, Atiyeh, Castillo, Araceli G. Safaie, Naser, **Bejarano, Eduardo R**., Luna, Ana P., Shams-Bakhsh, Masoud. Plants, 2022, 11(23), 3351
37. The transcriptional regulator JAZ8 interacts with the C2 protein from geminiviruses and limits the geminiviral infection in Arabidopsis Tabata Rosas-Diaz 1 2, Pepe Cana-Quijada , Mengshi Wu, Du Hui, Gemma Fernandez-Barbero, Alberto P Macho, Roberto Solano, Araceli G Castillo, Xiao-Wei Wang, Rosa Lozano-Duran, Eduardo R Bejarano. Journal of Integrative Plant Biology, 2023, 65(7), pp. 1826–1840
38. López-Márquez D, Del-Espino Á, Ruiz-Albert J, Bejarano ER, Brodersen P, Beuzón CR. Regulation of plant immunity via small RNA-mediated control of NLR expression. (Manuscript accepted in Journal of Experimental Botany, July 2023).

Book chapters

39. Rodríguez Negrete E., **Bejarano ER.** and Castillo AG. Using the yeast two-hybrid system to identify protein-protein interactions. In Plant Proteomics Methods and Protocols.Humana Press (Springer Science) Series "Methods in Molecular Biology pp:241-258 (2013). ISBN 978-1-62703-631-3
40. Lozano-Durán R., Rodríguez-Negrete E. y **Bejarano ER.** Proceso patogénico II: Regulación de la expresión génica y virus. In Enfermedades de plantas causadas por virus y viroides. Sociedad Española de Fitopatología (2018) pp 161-178 ISBN: 978-84-686-8985-2.
41. Geminivirus DNA replication in plants. Mengshi Wu**, Eduardo R. Bejarano**, Araceli G. Castillo and Rosa Lozano-Dura. In Geminivirus: Detection, Diagnosis and Management. In. Geminivirus: Detection, Diagnosis and Management. Elseveiver. (2022), pp: 323 – 3461. ISBN: 978-032390587-9, 978-032390711-8

C.2. Research projects and grants (since 2010)

Projects as IP or similar

1. Concepcion y mejora de resistencias a virus transmitidos por insectos en tomate: aproximaciones geneticas e innovadoras en interacciones huesped-patogeno-vector. PID2022-139376OB-C31 Plan Nacional) (2024-2026) IP: Eduard R Bejarano and Araceli G Castillo.
2. Isolation and characterization of mobile sRNA/target pairs in plants by using a viral protein as a probe GeminiDECODER, 8.06.UE/02. Horizon 2020 - Research and Innovation Framework Programme (2021-2023) IP: Rosa Lozano-Duran and Eduardo R Bejarano.
3. Control of whitefly-transmitted viruses in tomato: taking advantage of understanding the basis of plant-virus interaction (wfvirtom). PID2019-107657RB-C22 (Plan Nacional) (2020-2023) IP: Eduardo R Bejarano / Araceli G Castillo
4. Traductional Landscape of plant-virus interaction. Junta de Andalucía. PY18-1218 (2021-2023). IP: Merchante Berg, María Catharina
5. Regulación de genes de resistencia frente a patógenos mediada por miRNA/phasiRNA. UMA18-FEDERJA-070. Ayudas a proyectos I+D+i en el marco del Programa Operativo FEDER. Junta de Andalucía (2020-2021) IP: Eduardo R Bejarano
6. Control of human pathogenic mico-organims in plant production systems. European Cooperation in Science and Technology. COST Action CA16110 (2018-2022). IP: Leo van Overbeek. Eduardo R. Bejarano (member of mangament commitee)
7. Interacciones multitroficas en el patosistema Geminivirus/Crinivirus-Bemisia tabaci-tomate AGL2016-75819-C2-1-R. (2017-2019) IP: Eduardo R Bejarano y Araceli Castillo.
8. Using three-way interactions between plants, microbes and arthropods to enhance crop protection and production". European Cooperation in Science and Technology. COST Action FA1405 (2015-2019). IP: Arjen Biere. Eduardo R. Bejarano (member of mangament commitee)
9. Emergencia viral y mosca blanca: interacciones multitroficas en el patosistema geminivirus/crinivirus-bemisia tabaci-tomate. AGL2013-48913-C2-2-R (2014-2016). IP: Eduardo R. Bejarano /Araceli Castillo Garriga.
10. El patosistema geminivirus/crinivirus-bemisia tabaci-tomate: bases de la interaccion virus-insecto-planta. AGL2010-22287-C02-02 (2011-2013) IP: Eduardo R. Bejarano.

C.5. PhD thesis supervision (last ten years)

1. Pedro Humberto Castro. Universidade do Minho (Braga, Portugal. June 2013. (co-supervised)
2. Tábata Rosas Díaz. University of Malaga. December 2014.
3. Manuel Arroyo Mateos. University of Malaga. May 2015.
4. José Sebastían Rufián Plaza. University of Malaga. December 2015. (co-supervised)
5. Alvaro Piedra Aguilera. 2019. University of Malaga. May 2019. (co-supervised)
6. Angela Paulina Arce Leal. Instituto Politécnico Nacional de Mexico. México. July 2020 (Co-director: Norma Elena Leyva).
7. Diego López Márquez. Previsto September 2020. Co-directo: Carmen Beuzón
8. José Cana Quijada. University of Malaga. December 2022
9. Blanca Sabarii. University of Malaga. July 2023
10. Beatriz Romero Rodríguez. University of Malaga. September 2023

C.6 Institutional responsibilities (last ten years)

- Director of IHSM “La Mayora” (UMA- CSIC). From 2022 to the present
- Vice director of IHSM “La Mayora” (UMA- CSIC). From 2010 to 2022
- Director of the Genetic unit and Secretary of Departament of Celular Biology, Genetics and Physiology. UMA. From 1998 to 2021.

Adacemic management

- Delegate of UMA in the “Comisión Mixta de Seguimiento del Convenio de Colaboración entre la UMA and CSIC, para el desarrollo de los programas de doctorado”. From 2015 to present day.
- Secretary of “Comisión académica del Programa de Doctorado Biotecnología Avanzada. UMA”. From 2014 to present day.
- Academic coordinator of “Programa Oficial de Posgrado de Biotecnología Avanzada”. UMA. From 2008 to 2009 and “Programa de Doctorado y Master en Biotecnología”. Universidad Internacional de Andalucía. From 2007 to 2008

Scientific management

- Coordinator of the activities of the Research and Development Evaluation Area of Agencia para la Calidad Científica y Universitaria de Andalucía (ACCUA)From May 2021 to the present.

Editorial experience

- Senior editor of “Journal of General Virology. From 2015 to 2020.
- “Assistance editor” de Journal of Plant Pathology. From 2014 to present date.
- Senior editor of “Phytophatology”. From 2018 to present date.

C7. Experience in organization and management of R+D activities (last ten years)

- Organiser of the COST FA1405 meeting "Using three-way interactions between plants, microbes and arthropods to enhance crop protection and production". Europe Cooperation and Science and Technology. Málaga. February 2016.
- Member of the organising committee of the "5th International Symposium ot Tomato Diseases". International Society for Horticultural Science (ISHS). Malaga. June 2016.
- Member of the organizing committee of the "XV Reunión Biología Molecular de Plantas". Málaga. November 2020.

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