

CURRICULUM VITAE ABREVIADO (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

Part A. PERSONAL INFORMATION

First name	Cristina		
Family name	Sánchez-Porro Álvarez		
		URL Web https://investigacion.us.es/sisius/sis_showpub.php?idpers=4368 https://prisma.us.es/investigador/3969	
Open Researcher and Contributor ID (ORCID)		0000-0002-1834-1239	

A.1. Current position

Position	Full Professor		
Initial date	10/07/2020		
Institution	University of Sevilla		
Department/Center	Department of Microbiology and Parasitology		
Country	Spain		
Key words	Extremophilic microorganisms, Hypersaline habitats, Halophilic Archaea and Bacteria, Molecular Systematics, Metagenomics, Comparative genomics		

A.2. Previous positions (research activity interruptions, indicate total months)

Period	Position/Institution/Country/Interruption cause
20/12/2010-09/07/2020	Associate Professor, University of Sevilla, Spain
01/09/2010-19/12/2010	Assistant Professor, University of Sevilla, Spain
01/09/2007-31/08/2010	Postdoctoral Researcher Project Excelencia Junta de Andalucía, University of Sevilla, Spain
1/07/2005-31/08/2007	Postdoctoral Researcher, University of Sevilla, Spain
1/06/2004-31/06/2005	Predoctoral Researcher, University of Sevilla, Spain
1/06/2000-31/05/2004	Predoctoral Fellow Training Research Personnel (FPI), University of Sevilla, Spain

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD in Pharmacy	University of Sevilla	2005
Graduate in Pharmacy	University de Sevilla	1999

Part B. CV SUMMARY (max. 5000 characters, including spaces)

She graduated in Pharmacy at the University of Sevilla (1994-1999). She defended her Doctoral Thesis in 2005. During her predoctoral studies she carried out short research stays at the Technische Universität Hamburg-Harburg (Hamburg, Germany) (3 months) and at the Institute Pasteur (Paris, France) (12 months). Later she enjoyed a competitive postdoctoral contract (2007-2010) from the Junta de Andalucía (P06-CVI-01829). She held the positions of Assistant Professor (2010), Associate Professor (2010) and Full Professor (2020).

She has published **152 research articles** in international books and journals (27 book chapters and 125 scientific articles).

Indexed publications: 130 (WoS), 132 (Scopus). Total number of citations: 3,030 (WoS), 3,308 (Scopus). Mean citations/article: 22.31 (WoS), 25,06 (Scopus). H index: 27 (WoS), 28 (Scopus).

She has been part of research projects in regional (5), national (9) and international (6) projects, being PI in one (Project PID2023-148654N) and co-PI in two of them.

Supervisor of 6 PhD Thesis (and 1 in progress), 33 Master's Thesis and 36 Graduate projects.



She has been tutored of 32 students in research tasks, and 17 pre- or postdoctoral students from several universities from Brazil, Turkey, Iran, Mexico, Algeria, Czech Republic, Italy and Poland.

She has participated in examination committees of several Doctoral and Master's Thesis. She has also been part of selection committees for Contracted, Assistant and Full Professor positions.

She has acted as a reviewer for articles in scientific journals and is currently guest editor of Marine Drugs' special issue "Genome Mining and Drug Discovery of Marine and Halophilic Microorganisms" and of Microorganisms' special issue "Halophilic Microorganisms".

She has participated in many congresses, contributing with **25 lectures**, **151 communications** (oral and/or poster) at **national conferences** and **104 communications** (oral and/or poster) at **international conferences** being member of the Scientific Committee or chaired sessions in several of them.

She has been involved on the Organizing Committee of the congresses: Halophiles 2001, (Sevilla, 2001); IV Meeting of Microbiology of the Aquatic Environment (Sevilla, 2002); XXI National Congress of Microbiology (Sevilla, 2007); VIII Meeting of the National Network of Extremophilic Microorganisms (Cádiz, 2008); XIII Meeting on Microbial Taxonomy, Phylogeny and Diversity (Sevilla, 2010), 9TH International Congress on Extremophiles (Sevilla, 2012) and XV Meeting of the National Network of Extremophilic Microorganisms (Huelva, 2018), being the Secretary in the last five. Also she has been involved on the Organizing Committee of XXIII National Congress of Parasitology (Sevilla 2024).

She has received the award for Best Doctoral Thesis 2004/2005 (City Council of Seville, 2006) and the Merck, Sharp and Dohme Spain Prize (American Academy of Pharmacy, 2007). She has also received various awards for the best presentations at both national and international conferences and the award "Top Ten 2011 New Species Award" (The International Institute for Species Exploration at Arizona State University, USA), "for the discovery of the remarkable new species *Halomonas titanicae*" (2011).

She is member of the Spanish Society of Microbiology (SEM) since May 2003, as well as member of the SEM Taxonomy, Phylogeny and Biodiversity Group (secretary 2014 to 2021 and vice president since 2020), and of the SEM Teaching and Dissemination Group /secretary since 2024). She is currently a member of the Faculty Board (Faculty of Pharmacy, University of Sevilla) and member of the ICSP-Subcommittee on Taxonomy of *Halobacteria*.

Her research activity is focused on the study of the biodiversity, taxonomy and genomics of halophilic microorganisms. She has described many new halophilic prokaryotes (bacteria and archaea), isolated from hypersaline habitats (salterns and saline soils). She was also involved on culture-independent metagenomic approaches for the study of hypersaline environments, permitting to determine the taxonomic and functional diversity, and lately the isolation of new abundant halophilic microorganisms from these habitats.

Lastly, it should be noted that she is involved in scientific communication activities, she has been part in 5 projects related to scientific dissemination (leading 3 of them), she also participated in 11 congresses of teaching dissemination. She has collaborated in activities such as Salón del Estudiante (since 2015), European Night of Researchers (since 2021), Radius, Ciencia en Boulebar, Café con Ciencia or Joinus (all related to divulgation from the University of Sevilla). She is currently co-directs the MicroMundo Project at the University of Sevilla aimed at raising public awareness about resistance to antibiotics. Finally, she is very active on social networks (X @Crissanpor).

Part C. RELEVANT MERITS

C.1. Publications

1. León MJ, Vera-Gargallo B, de la Haba RR, **Sánchez-Porro C**, Ventosa A. (2024). Integrating genomic evidence for an updated taxonomy of the bacterial genus *Spiribacter*. *Sci Rep* 14: 30057.
2. García-Roldán A, de la Haba RR, **Sánchez-Porro C**, Ventosa A. (2024). 'Altruistic' cooperation among the prokaryotic community of Atlantic salterns assessed by metagenomics. *Microbiol Res* 288:127869.

3. Galisteo C, Puente-Sánchez F, de la Haba RR, Bertilsson S, **Sánchez-Porro C**, Ventosa A. (2024). Metagenomic insights into the prokaryotic communities of heavy metal-contaminated hypersaline soils. *Sci Total Environ* 951:175497.
4. Cui HL, Hou J, Amoozegar MA, Dyll-Smith ML, de la Haba RR, Minegishi H, Montalvo-Rodríguez R, Oren A, **Sánchez-Porro C**, Ventosa A, Vreeland RH. (2024). Proposed minimal standards for description of new taxa of the class *Halobacteria*. *Int J Syst Evol Microbiol* 74:006290.
5. Galisteo C, de la Haba RR, Ventosa A, **Sánchez-Porro C**. (2024). The Hypersaline Soils of the Odiel Saltmarshes Natural Area as a Source for Uncovering a New Taxon: *Pseudidiomarina terrestris* sp. nov. *Microorganisms* 12: 375.
6. de la Haba RR, Arahál DR, **Sánchez-Porro C**, Chuvochina M, Wittouck S, Hugenholtz P, Ventosa A. (2023). A long-awaited taxogenomic investigation of the family *Halomonadaceae*. *Front Microbiol* 14: 1293707.
7. Galisteo C, de la Haba RR, **Sánchez-Porro C**, Ventosa A. (2023). A step into the rare biosphere: genomic features of the new genus *Terrihalobacillus* and the new species *Aquibacillus salsiterrae* from hypersaline soils. *Front Microbiol* 14: 1192059.
8. García-Roldán A, Durán-Viseras A, de la Haba RR, Corral P, **Sánchez-Porro C**, Ventosa A. (2023). Genomic-based phylogenetic and metabolic analyses of the genus *Natronomonas*, and description of *Natronomonas aquatica* sp. nov. *Front Microbiol* 14:1109549.
9. Durán-Viseras A, **Sánchez-Porro C**, Viver T, Konstantinidis KT. and Ventosa A. (2023). Discovery of the streamlined haloarchaeon *Halorutilus salinus*, comprising a new order widespread in hypersaline environments across the world. *mSystems* 8: e01198-22.
10. Durán-Viseras A, **Sánchez-Porro C**. and Ventosa A. (2021). Genomic insights into new species of the genus *Halomicroarcula* reveals potential for new osmoadaptive strategies in halophilic archaea. *Front Microbiol* 12: 751746.
11. Durán-Viseras A, Andrei A.-Ş, Vera-Gargallo B, Ghai R, **Sánchez-Porro C**. and Ventosa A. (2020). Culturomics-based genomics sheds light on the ecology of the new haloarchaeal genus *Halosegnis*. *Environ Microbiol* 23: 3418-3434.
12. Vera-Gargallo B, Chowdhury, T.R., Brown, J., Fansler, S.J., Durán-Viseras A., **Sánchez-Porro C**, Bailey, V.L., Jansson, J.K. and Ventosa A. (2019). Spatial distribution of prokaryotic communities in hypersaline soils. *Sci Rep* 9: 1769.
13. Ventosa A. de la Haba RR, **Sánchez-Porro C**, and Papke RT. (2015). Microbial diversity of hypersaline environments: a metagenomic approach. *Curr Opin Microbiol* 25: 80-87.
14. Fernández AB, Ghai R, Martín-Cuadrado AB, **Sánchez-Porro C**, Rodríguez-Valera F. and Ventosa A. (2014). Prokaryotic taxonomic and metabolic diversity of an intermediate salinity hypersaline habitat assessed by metagenomics. *FEMS Microbiol Ecol* 88: 623-635.
15. León MJ, Fernández AB, Ghai R, **Sánchez-Porro C**, Rodríguez-Valera F. and Ventosa A. (2014). From metagenomics to pure culture: isolation and characterization of the moderately halophilic bacterium *Spiribacter salinus* gen. nov., sp. nov. *Appl Environ Microbiol* 80: 3850-3857.
16. **Sánchez-Porro C**, Mellado E, Pugsley AP, Franceti, O. and Ventosa A. (2009). The haloprotease CPI produced by the moderately halophilic bacterium *Pseudoalteromonas ruthenica* is secreted by the type II secretion pathway. *Appl Environ Microbiol* 75: 4197-4201.
17. Ivars-Martínez E, D'Auria G, Rodríguez-Valera F, **Sánchez-Porro C**, Ventosa A, Joint I, and Mühling M. (2008). Biogeography of the ubiquitous marine bacterium *Alteromonas macleodii* determined by multilocus sequence analysis. *Mol Ecol* 17: 4092-106.

C.2. Congress, indicating the modality of their participation (invited conference, oral presentation, poster)

Invited conferences (selected):

1. Ventosa A, Durán-Viseras A, Galisteo C, Strakova D, García-Roldán A, Vera-Gargallo B, León MJ, de la Haba RR and **Sánchez-Porro C**. 13th International Congress on Extremophiles, Loutraki, Greece, 2024.
2. Ventosa A, Durán-Viseras A, Galisteo C, Strakova D., García-Roldán A, Vera-Gargallo B, León MJ, de la Haba RR. and **Sánchez-Porro C**. 13th Conferencie om Halophilic Microorganisms, Alicante, Spain, 2024.
3. Ventosa, A., Vera-Gargallo, B., León, M.J., de la Haba, R.R. and **Sánchez-Porro C**. XXIV Congreso Latinoamericano de Microbiología, ALAM 2018. Santiago de Chile, Chile, 2018.

C.3. Research projects, indicating your personal contribution. PI: Principal Investigator

1. PI of the reseach project “Multi-ómicas y dinámica de las comunidades de suelos Hipersalinos contaminados con metales pesados”. 2024-2027 (PID2023-148654N). Ministerio de Ciencia, Innovación y Universidades. 130,000 €.
2. Co-PI of the research project “Análisis de los factores determinantes de la microbiota eurihalina de los suelos hipersalinos”. 2021-2024 (PID2020-118136GB-I00). Ministerio de Ciencia e Innovación. 115,000 €.
3. Co-PI of the research project “Filogenómica y genómica comparativa de arqueas y bacterias halófilas”. 2020-2022 (US-1263771). Junta de Andalucía, Consejería de Economía y Conocimiento-Universidad de Sevilla. 80,000 €
4. Researcher of the project “Microbiomas de ambientes hipersalinos: suelos versus salinas”. 2018-2020 (CGL2017-83385-P). Ministerio de Economía, Industria y Competitividad). 102,850 €.
5. Researcher of the project “De la metagenómica al cultivo puro: *Spiribacter salinus*”. 2014-2017. (CGL2013-46941-P). Ministerio de Economía y Competitividad. 96,800 €.
6. Researcher of the project “Biodiversidad microbiana de ambientes hipersalinos basada en estudios metagenómicos”. 2011-2013. (CGL2010-19303). Ministerio de Ciencia e Innovación. 133,100 €.
7. Researcher of the project “Biodiversidad microbiana de suelos salinos: una aproximación molecular y metagenómica”. 2011-2015. (P10-CVI-6226). Junta de Andalucía, Consejería de Economía, Innovación y Ciencia. 208,247 €.
8. Researcher of the project (Subcontract): “Towards comprehending prokaryotic species using *Halorubrum* sp. As a model”, granted by the National Science Foundation (USA). 2009-2012. (Grant DEB-0919290, CFDA 47.082). PI: Robertson Dr. R. Thane Papke. 138,024 \$.
9. Researcher of the project “Metagenómica de ambientes hipersalinos y sus implicaciones biotecnológicas”. 2010 (BIO2009-10138). Ministerio de Ciencia e Innovación. 36,300 €.
10. Researcher of the project “La biodiversidad de los ambientes hipersalinos como fuente de productos microbianos (enzimas y polisacáridos) de interés biotecnológico”. 2007-2010 (P06-CVI-01829). Junta de Andalucía, Consejería de Innovación, Ciencia y Empresa. 208,247 €.
11. Researcher of the project: “Multigenome Access Technology for Industrial Catalysts”. 2002-2006 (QLK3-CT-2002-01972). Quality of Life Programme of the European Comission. 381,159 €.

C.4. Contracts, technological or transfer merits

Patents: **Sánchez-Porro, C.**, Mellado, E., Martín, S., Ventosa, A. Patent number: P200300745 (2003). Protease produced by a moderately halophilic bacterium: mode of production of the enzyme. International patent (non-licensed). Institution granted: University of Sevilla.