CURRICULUM VITAE (CVA)

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

Part A. PERSONAL INFORMATION

CV date:	**25/05/2022**	

First name	Jesús		
Family name	Cambrollé Silva		

(*) Mandatory

A.1. Current position

Position	Profesor Titular de Universidad		
Initial date	14/11/2019		
Institution	Universidad de Sevilla		
Department/Center	Biología Vegetal y Ecología		
Country	Spain	Teleph. number	
Key words	Plant biology; coastal vegetation; ecophysiology		

A.2. Previous positions (research activity interuptions, art. 14.2.b))

Period	Position/Institution/Country/Interruption cause
2007/2011	Predoctoral researcher/Universidad de Sevilla
2011/2012	Postdoctoral researcher/Universita degli studi del Piemonte Orientale
2012	Postdoctoral researcher/IRNAS-CSIC
2013/2016	Postodoctoral researcher/Universidad de Sevilla
2016	Profesor Ayudante Doctor/Universidad de Sevilla
2016/2019	Profesor Contratado Doctor/Universidad de Sevilla

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD in Biology	Universidad de Sevilla	2011

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

My research began in 2006 with a collaboration grant (Ministerio de Educación y Ciencia) and in 2008 I was awarded a FPU grant to complete my doctoral thesis in ecology. I gained my doctorate with the maximum qualification, a European mention in the Doctoral Diploma and the Extraordinary Doctorate Prize from the University of Seville. I held my first postdoctoral post in the Universitá degli Studi del Piemonte Orientale in Italy and continued my training at the Instituto de Recursos Naturales y Agrobiología (CSIC), returning to the University of Seville in 2013 as a contracted postdoctoral researcher. After obtaining national accreditation for the position of "Profesor Titular de Universidad", in 2016, I took up the post of "Profesor Ayudante Doctor", and am currently "Profesor Titular de Universidad" in the Department of Plant Biology and Ecology (University of Seville).

I have conducted several research placements in other universities in Europe and South America, and have participated in numerous RDI projects, some in collaboration with different foreign universities. This has allowed me to make professional contributions to the research in different fields of ecology and the environment. A prominent example of transference with social impact in my work is my participation in various books on climatic change and coastal ecosystem management.

Overall, my research work, which began in 2006, has produced 50 publications in scientific journals indexed in "Web of Science" (1.022 citations; H=17). I am currently leading two research projects as principal investigator, focused on the valorisation of two costal plants as new resources of food and pharmaceutical products (CRITHVAL project, "Retos 2018", Ministerio de Ciencia, Innovación y Universidades; and GLAUVAL project, "Proyectos I+D+i FEDER Andalucía 2020").

My main line of research has centred on evaluation of the ecophysiological response of plants to different types of stress, with most of my studies focusing on coastal ecosystem vegetation, particularly saltmarsh halophytes. In this context, my studies present an applied approach in response to the different effects associated with global change. This line of research has derived in a valorisation of several halophytic species from the evaluation of their potential use in decontamination of degraded ecosystems. Furthermore, in collaboration with different researchers at both national and international level, I have conducted various studies related to climatic change, evaluating the impact of associated abiotic sources of stress on the vegetation. As a result of my collaboration with scientists of the Instituto de Recursos Naturales y Agrobiología (CSIC), I have actively participated in several studies centred on the evaluation of wild varieties of different traditional crops as phytogenetic resources for the improvement of commercial varieties, taking the opportunity to apply my training in ecology and plant physiology to the field of agronomy. **My current scientific objectives are focused on the search for and evaluation of new plant species with which to address the increased demand for food linked to the predicted population increase in the coming decades and, more specifically, to the state of food insecurity in underdeveloped countries.** To this end, as well as integrating my knowledge of ecology, plant physiology and agronomy, I currently collaborate with various scientists of a broad background in terms of plant-based foods and food products.

Part C. RELEVANT MERITS *(sorted by typology)*

C.1. Publications *(see instructions)*

-Martins-Noguerol, R., Matías, L., Pérez-Ramos, I.M., Moreira, X., Muñoz-Vallés, S., Mancilla-Leytón, J.M., Francisco, M., García-González, A., DeAndrés-Gil, C., Martínez-Force, E., Millán-Linares, M.C., Pedroche, Moreno-Pérez, A.J., **Cambrollé, J.** 2022. Differences in nutrient composition of sea fennel (*Crithmum maritimum*) grown in different habitats and optimally controlled growing conditions. Journal of Food Composition and Analysis 106, 104266. **IF 4.56**. 1st Quartile. https://doi.org/10.1016/j.jfca.2021.104266

-Martins-Noguerol, R., Matías, L., Pérez-Ramos, I.M., Moreira, X., Francisco, M., García-González, A., Troncoso-Ponce, A.M., Thomasset, B., Martínez-Force, E., Moreno-Pérez, A.J., **Cambrollé, J.** 2022. *Crithmum maritimum* seeds, a potential source for high-quality oil and phenolic compounds in soils with no agronomical relevance. Journal of Food Composition and Analysis (accepted 15/01/2022). **IF 4.56**. 1st Quartile. https://doi.org/10.1016/j.jfca.2022.104413

-Moreira, X., Pérez-Ramos, I.M., Matías, L., Francisco, M., García-González, A., Martins-Noguerol, R., Vázquez-González, C., Abdala-Roberts, L., **Cambrollé, J.** 2021. Effects of soil abiotic factors and plant chemical defences on seed predation on sea fennel (Crithmum maritimum). Plant and Soil 465, 289-300. **IF 4.19**. 1st Quartile. https://orcid.org/0000-0003-0166-838X

-Martins-Noguerol, R., **Cambrollé, J.**, Mancilla-Leytón, J.M., Puerto-Marchena, A., Muñoz-Vallés, S., Millán-Linares, M.C., Millán, F., Martínez-Force, E., Figueroa, M.E., Pedroche, J., Moreno-Pérez, A.J. 2021. Influence of soil salinity on the protein and fatty acid composition of the edible halophyte *Halimione portulacoides*. Food Chemistry 352, 129370. **IF 7.51**. 1st Decile. DOI:10.1016/j.foodchem.2021.129370

- Pérez-Ramos, I.M., **Cambrollé, J.**, Hidalgo-Gálvez, M.D., Matías, L., Montero-Ramírez, A., Santolaya, S., Godoy, O. 2019. Phenological responses to climate change in communities of plant species with contrasting functional strategies. Environmental and Experimental Botany 170, 103852. **IF 4.27**; 1st Quartile. https://doi.org/10.1016/j.envexpbot.2019.103852

C.2. Congress

-Autores: Martins-Noguerol, R., Matías, L., Pérez-Ramos, I.M., Moreira, X., Moreno-Pérez, A.J., Pedroche, J., DeAndrés-Gil, C., Francisco, M., García-González, A., Millán-Linares, M.C., Millán, F., Cambrollé, J. Título: Efecto de la variabilidad de las propiedades físico-químicas del suelo en el rendimiento de la halófita costera *Crithmum maritimum* L. Tipo de presentación: Póster. Congreso: XV Congreso Nacional de la AEET. Lugar de celebración: Plasencia (España). Fecha: 2021

-Autores: L. Matías, A. Montero-Ramírez, M.D. Hidalgo-Galvez, S. Santolaya, J. Cambrollé, O. Godoy, I.M. Pérez-Ramos. Título: Phenological responses to climate change in plant communities with contrasting functional strategies Tipo de presentación: Póster Congreso: XVI EcoFlor. Lugar de celebración: Granada, España Fecha: 2019
Autores: M.D. Hidalgo-Galvez, L. Matías, S. Santolaya, J. Pérez-Aguilar, J. Cambrollé, I.M. Pérez-Ramos Título: Influence of climate change of the functional structure of herbaceous communities in dehesa ecosystems Tipo de participación: Comunicación oral Congreso: 1st Iberian Ecological Society Meeting Lugar de celebración: Barcelona, España Fecha: 2019

-Autores: M.D. Hidalgo, Rodríguez-Carrasco, T., Herrador, B., L. Matías, J. Cambrollé, I.M. Pérez-Ramos Título: Reproductive fitness of herbaceous species in a drier and warmer world: influence of the flowering phenology Tipo de participación: Comunicación oral Congreso: British Ecological Society Annual Meeting 2018. Lugar de celebración: Birmingham, Reino Unido Fecha: 2018

-Autores: I.M. Pérez-Ramos, M.D. Hidalgo-Galvez, J. Cambrollé, E. Gutiérrez, L. Matías, L. Título: Climate-induced changes in net primary productivity of savannah-like ecosystems: the mitigating role of scattered trees Tipo de participación: Póster Congreso: Restoration in the Era of Climate Change Lugar de celebraciu: Reykjavik, Islandia Fecha: 2018

C.3. Research projects

-"Evaluación del potencial del hinojo marino (*Crithmum maritimum* L.) como cultivo generador de múltiples productos de interés bajo diferentes condiciones ambientales" (RTI2018-099260-A-100). 2019-2021. Ministerio de Ciencia, Innovación y Universidades ("Retos"). Financiation: 106.000 euros. **PI: Jesús Cambrollé Silva.**

-“Efecto de los factores abióticos en la producción de metabolitos secundarios con potencial fitoterapéutico en una especie costera (*Glaucium flavum* Crantz)” (US-1380868). Proyectos I+D+i FEDER Andalucía 2020. 2021-2022. Financiation: 79.000 euros. **PI: Jesús Cambrollé Silva.**

-“Mecanismos funcionales, fisiológicos y genéticos implicados en la adaptación de los bosques mediterráneos al cambio climático” (PID2019-108288RA-I00). 2020-2023. Ministerio de Ciencia e Innovación. Financiation: 150.000 euros. PI: Luis Matías Resina. **Member of working team.**

-"De la ciencia de la biodisponibilidad a la recuperación de suelos: Estimulación sostenible de redes biológicas para la mejora del reciclado del carbono de los contaminantes" (CGL2016-77497-R). 2016-2019. Ministerio de Economía y Competitividad ("Retos"). Financiation: 226.640 euros. PI: José Julio Ortega Calvo (IRNAS-CSIC). **Member of working team.**

-"Las dehesas frente al cambio global: Una aproximación multifuncional" (CGL2015-70123-R). 2016-2019. Ministerio de Economía y Competitividad ("Retos"). Financiation: 136.730 euros. PI: Ignacio Manuel Pérez Ramos (IRNAS-CSIC). **Member of working team.**

-"Puntos débiles para el conocimiento del ciclo del carbono en sistemas estuáricos: relaciones sumidero-emisión" (CTM2008-04453). 2009-2013. Ministerio de Ciencia e Innovación. Financiation: 296.450 euros. PI: Xavier Niell Castanera (Universidad de Málaga). **Member of working team.**

C.4. Contracts, technological or transfer merits

Contracts.-

-"Evaluación de la capacidad de sumidero de CO_2 del sistema verde de municipios andaluces en el marco del Programa Ciudad XXI Bosques por Ciudades. Propuesta de un modelo de planeamiento y gestión del sistema verde urbano ante un escenario de Cambio Climático". 2009-2011. Consejería de Medio Ambiente (Junta de Andalucía). Financiation: 190.000 euros. PI: María T. Luque Palomo.

-"Evaluación de la capacidad de sumidero de CO_2 de la vegetación arbórea y arbustiva susceptible de ser utilizada en la red de carreteras de Andalucía. Generación de un modelo estacional de funcionamiento de sumideros y aplicación práctica". 2008-2010. Consejería de Obras Públicas y Transportes (Junta de Andalucía). Financiation: 160.000 euros. PI: Manuel E. Figueroa Clemente.

-"Proyecto de investigación de ecología de restauración de la fauna y flora de la finca Caracoles (actuación nº 6 del proyecto Doñana 2005). Procesos de colonización y factores que lo regulan. Regulación del ensamblaje de la comunidad vegetal". 2007-2009. Ministerio de Medio Ambiente. PI: Eloy M. Castellanos Verdugo.

Supervision of PhD theses.-

- María Dolores Hidalgo Gálvez (actually in progress; initiated at 2017); "Efectos interactivos del cambio climático y la presión de herbívoros sobre la composición y diversidad funcional de organismos en sistemas agroforestales"; 1 scientific article included in *Science Citation Index*; Expected defense date: 2020.

- Antonio Puerto Marchena (2014-2017); "Avances en la utilización de esquejes de *Halimione portulacoides* (L.) Aellen en estrategias de fitorremediación de suelos contaminados por metales pesados"; Sobresaliente *cum laude*; 1 scientific article included in *Science Citation Index*; Currently working as Environmental Specialist Technician.

Additional transfer merits.-

- Member of the Research Commission of the University of Seville (collegial body for planning, promotion, diffusion and evaluation of scientific research). 2013-2021.

- Member of the specialists working group for the preparation of the "Strategic Sustainability Plan of the University of Seville". 2012-2014.