

ABBREVED CURRICULUM VITAE (CVA) – maximum 4 PAGES

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Part A. PERSONAL INFORMATION

CV date 05/05/2021

First and Family name	Susana Redondo Gómez		

(*) *Optional*

(**) *Mandatory*

A.1. Current position

Name of University/Institution	Universidad de Sevilla		
Department	Biología Vegetal y Ecología		
Address and Country	Avda. Reina Mercedes s/n, 41012 Sevilla, Spain		
Current position	Professor	From	31/10/2016
Key words	Halophytes, Ecophysiology, Abiotic stress, Phyto-tools, Synergy, Biofertilizers, Plant-microbial interactions		

A.2. Education

PhD, Licensed, Graduate	University	Year
PhD in Biology	Universidad de Sevilla	2004
Licensed in Biology	Universidad de Sevilla	2000

A.3. Career breaks*

* *if applicable*

A.4. General indicators of quality of scientific production (see instructions)

Investigation sexennium number: 3 (05/06/2019)

Transfer sexennium number: 1 (16/12/2019)

Thesis supervised since 2010: 4

Total nº of citations / average nº of citations during the last five years (2016-20): 2358 / 255.4 (Scopus)

Total nº of publications in the first quartile (Q1): **57** (47 since January 1, 2010)

Total nº of publications (JCR): 95

h-index: 29 (Scopus)

Part B. CV SUMMARY (max. 3500 characters, including spaces)

In the year 2001 I obtained an FPU scholarship for the realization of my PhD Thesis, which I finished in 2004, obtaining the Seville City Council Award for the Best PhD Thesis. Since the beginning of my research career, I have conducted ecophysiological studies of halophytes in response to different types of abiotic stresses, emphasizing their potential as bio-tools. In recent years, I have focused on the study of the synergistic response of halophytes to various stress factors and, more recently, to halophytes as functional foods and the role of plant growth promoting bacteria (PGP) and its application in the improvement of traditional and alternative crops. Thus, the research lines developed by the research group that I lead, Applied Vegetable Ecophysiology (RNM035), are: i) Interactions plant-microorganism: applications. ii) Phytodesalination: recovery of agricultural soils. lii) Phytoremediation of pollutants. iv) Ecophysiology of crops and multifunctional halophytes.

Since 2003 to the present, I have published 133 research papers, 94 of them in scientific journals with impact indexes included in JCR. 57 have been published in the highest impact journals of their category (Q1), among which are: Bioresource Technology, Journal of Agricultural and Food Chemistry, Journal of Experimental Botany, Science of the Total Environment, Desalination, Ecology. In addition, I have made 109 contributions to national



and international scientific congresses and I have been a Member of the Organizing Committee 'MEDECOS XIV International Conference & XIII AEET Meeting' (Seville, 2017), as well as Commissioner of the Symposium 'Ecology of the landscape' (Seville, 2010).

I have participated continuously, since 2002, in 27 projects obtained in competitive calls: 6 international projects, being IP project AP / 039614/11 (AECID) with Tunisia; 6 national projects, being IP of CGL2016-75550-R AEI / FEDER, UE and RTA2012-00006-C03-02; 7 projects of the Junta de Andalucía, being project IP 2012/215; and 8 local projects, being IP of 5 of them (PPI, US). I have also participated in 21 research contracts with the Public Administration, with Institutions or Companies, being IP of three of them. After my PhD, I obtained an I3P-CSIC scholarship for training and specialization in research lines with interest for the industrial sector (Ref. I3P-BPG2004), where I could make a technology transfer, applying the techniques I developed in my doctorate to Agrarian Research. I complemented this national stay (6.5 months) with an 8-month stay at the University of the Algarve (Faro, Portugal).

I am part of 4 international networks, one of them constituted by the COST Action FA0901 project in which researchers from 26 countries participate, and the other three formed to request projects from the European Union: ERA-CAPS, BiodivERsA and PRIMA. In addition, I belong to the group of experts in charge of the preparation of the inventory 'Alien Invasive Species In Europe (DAISIE)', financed by the 6th Framework Program of the EU.

I have directed 5 Doctoral Theses, all with the European or International Doctorate Mention and two of them with Extraordinary Doctorate Award. I currently direct one more. I have also directed 1 bachelor's thesis, 3 master's theses, 3 DEAs and 3 doctoral scholarships. On November 17, 2017, I won the V Losada Villasante Award for Excellence in Research in the Agrifood area.

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications (see instructions)

1. Mateos-Naranjo E, López-Jurado J, Mesa-Marín J, Luque CJ, Castellanos EM, Pérez-Romero JA, **Redondo-Gómez S** (2021) Understanding the impact of a complex environmental matrix associated with climate change on the European marshes engineer species *Spartina maritima*. *Environmental and Experimental Botany* 182, 104304. (Q1: 26/234 Plant Sciences. IF 4.027).
2. Mesa-Marín J, Pérez-Romero JA, Mateos-Naranjo E, Bernabeu-Meana M, Pajuelo E, Rodríguez-Llorente ID, **Redondo-Gómez S** (2019) Effect of Plant Growth Promoting Rhizobacteria on *Salicornia ramosissima* seed germination under salinity, CO₂ and temperature stress. *Agronomy* 9, 655. (Q1: 18/91 Agronomy. IF 2.603).
3. Barcia-Piedras JM, Pérez-Romero JA, Mateos-Naranjo E, Camacho M, **Redondo-Gómez S** (2019) Effect of prior salt experience on desalination capacity of the halophyte *Arthrocnemum macrostachyum*. *Desalination* 463, 50-54. (D1: 2/90 Water Resources. IF 6.603).
4. Mesa-Marín J (AC), Barcia-Piedras JM, Mateos-Naranjo E, ..., **Redondo-Gómez S** (11/11) (2019) Soil phenanthrene phytoremediation capacity in bacteria-assisted *Spartina densiflora*. *Ecotoxicology and Environmental Safety* 182, 109382. (Q1: 44/250 Environmental Sciences. IF 4.527).
5. Mesnoui M, Mateos-Naranjo E, Pérez-Romero JA, Barcia-Piedra JM, Lotmani B, **Redondo-Gómez S** (2018) Combined effect of Cr-toxicity and temperature rise on physiological and biochemical responses of *Atriplex halimus* L. *Plant Physiology and Biochemistry* 132, 675-682. (Q1: 50/222 Plant Sciences. IF 2.718).
6. Mesnoui M, Mateos-Naranjo E, Barcia-Piedras JM, Pérez-Romero JA, Lotmani B, **Redondo-Gómez S** (2016) Physiological and biochemical mechanisms preventing Cd-toxicity in the hyperaccumulator *Atriplex halimus* L. *Plant Physiology and Biochemistry* 106, 30-38. (Q1: 49/212 Plant Sciences. IF 2.724).
7. **Redondo-Gómez S**, Petenello MC, Feldman SR (2014) Growth, nutrient status, and photosynthetic response to diesel-contaminated soil of a cordgrass, *Spartina argentinensis*. *Marine Pollution Bulletin* 79, 34-38. (D1: 9/102 Marine & Freshwater Biology. IF 2.991).
8. **Redondo-Gómez S** (2013) Bioaccumulation of heavy metals in *Spartina*. *Functional Plant Biology* 40, 913-921. (Q1: 49/199 Plant Sciences. IF 2.569).



9. Mateos-Naranjo E, Andrades-Moreno L, **Redondo-Gómez S** (2012) Tolerance to and accumulation of arsenic in the cordgrass *Spartina densiflora* Brongn. Bioresource Technology 104, 187-194. (D1: 1/12 Agricultural Engineering. IF 4.750).

10. **Redondo-Gómez S**, Andrades-Moreno L, Mateos-Naranjo E, Parra R, Valera-Burgos J, Aroca R (2011) Synergic effect of salinity and zinc stress on growth and photosynthetic responses of the cordgrass *Spartina densiflora*. Journal of Experimental Botany 62, 5521-5530. (D1: 11/190 Plant Sciences. IF 5.364).

C.2. Research projects

TITLE: Improving the sustainability of strawberry cultivation using bio-tools (FEDER US-1262036)

FINANCIAL ENTITY AND CALL: competitive participation in R + D + i projects within the framework of the FEDER Andalusia Operational Program 2014-2020

MAIN RESEARCHER AND AFFILIATION: Enrique Mateos Naranjo and Ignacio D. Rodríguez Llorente, Univ. Sevilla

DURATION: 01/02/2020 - 31/01/2022

BUDGET: 79.701 € TYPE OF PARTICIPACION: Researcher

TITLE: Establishment of new tools for the conservation and management of the marshes of Patagonia, Argentina: Scientific-technical training of the Soil Laboratory of the Patagonian Institute for the Study of Continental Ecosystems (IPEEC) in Microbiology of hydromorphic soils

FINANCIAL ENTITY AND CALL: Sevilla University. Development Cooperation Office. Call for Aid for Development Cooperation Activities and Projects

MAIN RESEARCHER AND AFFILIATION: Jennifer Mesa Marín, Univ. Sevilla

DURATION: 24/06/2019 - 24/08/ 2019

BUDGET: 9.000 € TYPE OF PARTICIPACION: Researcher

TITLE: The halophytes and their rhizospheric relationships: tools for the adaptation of traditional agriculture to Climate Change (CGL2016-75550-R AEI/FEDER, UE)

FINANCIAL ENTITY AND CALL: Ministry of Economy and Competitiveness / Call Challenges, National Plan

MAIN RESEARCHER AND AFFILIATION: Enrique Mateos Naranjo and **Susana Redondo Gómez**, Univ. Sevilla

DURATION: 30/12/2016 - 29/12/2019

BUDGET: 215380 € TYPE OF PARTICIPACION: Principal researcher

TITLE: Regulation by arbuscular mycorrhizae of the integrated physiological response to salinity in rice plants (P11-CVI-7107).

FINANCIAL ENTITY AND CALL: Counseling of Innovation, Science and Business, Junta de Andalucía / Projects of Excellence

MAIN RESEARCHER AND AFFILIATION: Juan Manuel Ruiz Lozano, Zaidín-CSIC

DURATION: 16/05/2013-15/05/2016

BUDGET: 131722.73 € TYPE OF PARTICIPACION: Researcher

TITLE: Low cost ecological strategies for the recovery of Andalusian estuaries contaminated with heavy metals. Rhizostabilization with native plants and inoculants (P11-RNM-7274).

FINANCIAL ENTITY AND CALL: Counseling of Innovation, Science and Business, Junta de Andalucía / Projects of Excellence

MAIN RESEARCHER AND AFFILIATION: Eloísa Pajuelo Domínguez, Univ. Sevilla

DURATION: 16/05/2013-15/05/2016

BUDGET: 185847 € TYPE OF PARTICIPACION: Researcher

TITLE: Evaluation of the desalination capacity of *Arthrocnemum macrostachyum* (RTA2012-00006-C03-02)

FINANCIAL ENTITY AND CALL: Ministry of Economy and Competitiveness / Subprogram of Fundamental Research Projects Oriented to Agricultural Resources and Technologies in Coordination with the Autonomous Communities

MAIN RESEARCHER AND AFFILIATION: **Susana Redondo Gómez**, Univ. Sevilla



DURATION: 13/05/2013-12/05/2016

BUDGET: 31000.8 € TYPE OF PARTICIPACION: Principal researcher

TITLE: Phytodesalination assisted by microorganisms: a new strategy for the recovery of arid zones in the Mediterranean area (AP/039614/11)

FINANCIAL ENTITY AND CALL: Spanish Agency for International Cooperation for Development (AECID) / Interuniversity Cooperation and Scientific Research Program

MAIN RESEARCHER AND AFFILIATION: **Susana Redondo Gómez**, Univ. Sevilla

DURATION: 01/01/2012-31/03/2013

BUDGET: 9500 € TYPE OF PARTICIPACION: Principal researcher

TITLE: Weak points for the knowledge of the carbon cycle in estuary systems: sink-emission relationships (CTM2008-04453)

FINANCIAL ENTITY AND CALL: Ministry of Science and Innovation / State Plan

MAIN RESEARCHER AND AFFILIATION: Xavier Niell Castanera, Univ. Málaga

DURATION: 01/01/2009 - 31/12/2015

BUDGET: 350000 € TYPE OF PARTICIPACION: Researcher

TITLE: Putting halophytes to work: from genes to ecosystems (FA0901)

FINANCIAL ENTITY AND CALL: European Union / COST Action

MAIN RESEARCHER AND AFFILIATION: Timothy John Flowers, University of Sussex

DURATION: 15/10/2009 - 30/05/2014

BUDGET: 507936 € TYPE OF PARTICIPACION: Researcher

C.3. Contracts, technological or transfer merits

Convention: Regulation by arbuscular mycorrhiza of the integrated physiological response to salinity in rice plants (CSIC/ZAIDIN/USE; P11-CVI-7107 Ruiz Lozano, JM)

Financial entity: Collaboration agreement between the Zaidín Experimental Station (CSIC) and the University of Seville.

Participating entities: University of Seville, Zaidín Experimental Station (CSIC), Federation of Rice Growers of Seville. Duration: 21/07/2014-15/05/2016

Main researcher: **Susana Redondo Gómez** Budget: 3809,80 €

C.4. Patents

C.5. Losada Villasante Award for Excellence in Research in the Agrifood area. V Manuel Losada Villasante Awards, November 17, 2017.

C.6. Head of Research Group RNM-035 (PAIDI Groups of the Junta de Andalucía), Applied Plant Ecophysiology, since 2010.

C.7. Evaluator of the Torres Quevedo 17 Program, Ministry of Innovation, Science and Universities. June 7, 2018.

C.8. Evaluator of the Program for the attraction of postdoctoral talent to the Campus of International Excellence (CEI) UAM + CSIC, InterTalentum 2018, developed by the Autonomous University of Madrid.

C.9. Evaluator of the projects of the 2017 Calls for Excellence and Challenges of the State Plan 2013-2016 (BOE of June 13), as a member of the Commission of the Global Change-Biology of Organisms and Systems Program (CGL-BOS), of the Subdivision of Scientific-Technical Thematic Programs, State Research Agency (MINECO). El Escorial (Madrid), October 16-17, 2017.

C.10. Member of the Organizing Committee of MEDECOS XIV International Conference & XIII AEET Meeting. Held in Seville from January 31 to February 4, 2017.

C.11. Evaluator of the Postdoctoral Training Program (Juan de la Cierva Formation and Incorporation) in the area of Agriculture, Ministry of Economy and Competitiveness. Madrid, 18-20 May, 2015.

C.12. Evaluator in the Evaluation Committee of the Ramón y Cajal program, in the area of Agriculture, Ministry of Economy and Competitiveness. Madrid, 18-19 May, 2015.

C.13. Communication evaluator for the IX International Rangeland Congress, 2-8 April 2011, Rosario (Argentina).