MINISTERIO DE CIENCIA E INNOVACIÓN

CURRICULUM VITAE (maximum 4 pages)

AGENCIA ESTATAL DE INVESTIGACIÓN

Part A. PERSONAL INFORMATION

CV date	19/Ene/2023

First and Family name	María Salinas Navarro		
Social Security, Passport, ID number		Age	
Researcher codes	Open Researcher and Contributor ID (ORCID**)	0000-0002-2157-3399	
	SCOPUS Author ID (*)	35981105000	
	WoS Researcher ID (*)		

(*) Optional
(**) Mandatory

A.1. Current position

Name of University/Institution	Universidad de Almería		
Department	Biología y Geología		
Address and Country	Ctra. Sacramento s/n Escuela Superior de Ingeniería (Despacho 2.43) 04120 Almería Spain		
Phone number	+34950214169	E-mail	lmsalinas@ual.es
Current position	Profesora Titular	From	2017
Key words	Tomato, Arabidopsis, Plant Molecular Biology, Molecular Markers, Development		

A.2. Education

Title	University	Year
Doctor en Ciencias Biológicas	Universidad de Almería	2006
Licenciatura Ciencias Biológicas	Universidad de Granada	1999

A.3. General indicators of quality of scientific production *(see instructions)*

Indicador	Medida
Sexenios	
Total Number of publications JCR	11
Total Number of publications Q1	9
Number of citations (Scopus)	491
H index (Scopus)	**9**

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

During my PhD, I developed part of the research at " La Mayora-CSIC", Málaga, and part at the University of Almería. During this period, I worked on molecular markers and QTLs. The aim of my thesis was the search of molecular markers controlling resistance against two-spotted spider mite (*Tetranychus urticae* Koch) in tomato. I started working on this project in 1999 and my contribution to this work was first, determining the genetic basis of spider mite resistance in tomato and then, developing a RILs population. This RILs population was used to construct a robust linkage map of tomato that was used not only for looking for QTLs linked to spider mite resistance genes but also for searching molecular markers linked to fruit quality traits in following projects. Over these seven years I participated in several research projects, granted in public calls. The publications of the results were postponed until 2012 due to confidentiality clauses, but during this time I also collaborated in other projects related

with molecular biology and genetics. Once I finished my PhD at 2006, I got a position as Assistan Lecturer in Genetics, at Universidad de Almería. First years as Assistan Lecturer I participated in a project supported by Fundación Genoma- España focus in the identification of genes associates to tomato fruit quality and the sequencing of euchromatic regions of Chr 9. Then, in 2008, I organized my academic lessons in order to carry out a long post-doctoral stay and strengthen my competences in molecular biology techniques. First, I stayed a year as visiting researcher with Prof Peter Huijser at the Max Planck Institute for Plant Breeding Research in Cologne (Germany). During this year I collaborated with Peter Huijser's team in determining the role of SQUAMOSA PROMOTER BINDING PROTEIN-LIKE (SPL) genes and miR156 in Arabidopsis flower transition. Next 4 years, I concentrated the lessons of each academic course in a few months in order to stayed again 10, 9 and 7 months at Cologne and be able to continue the study of SPB-box genes in plant development. The work carried out during those years allowed us to stablish the role of SPB-box transcription factors in early anther development and also to identify and describe the genomic organization of the SBP-box family of transcription factors in tomato. During these postdoctoral stays I was awarded with four Junta de Andalucía postdoc fellowships. Completed the projects I had launched with Prof Peter Peter Huijser, I settled down in Almería and started a new period collaborating with Dr. Mercedes del Río Celestino at Instituto de Investigación y Formación Agraria y Pesquera (IFAPA), working on plant breeding and vegetables quality traits. During this period, I also collaborated with Dr. Juan Mota Poveda, at Universidad de Almería, working on gypsophila plants and population genetics. Recently, Dr. Lorenzo Carretero Paulet has incorporated at Universidad de Almería teaching staff and we have shared the supervision of several bachelor's theses of students examining the evolutionary dynamics of gene families in orphan crop *Moringa oleifera*. This collaboration has aroused my interest in plant evolutionary genomics and thus we have created a new Research Group, BIO359 (SICA), of which nowadays I am leading. My contribution in our group rely on my experience on plant biology, breeding and genetics since the results of our studies provides genetic resources that can be implemented in breeding programs

Part C. RELEVANT MERITS FROM THE LAST 10 YEARS *(sorted by typology)*

C.1. 10 relevant publications

Ojeda-López, J., Marczuk-Rojas, J. P., Polushkina, O. A., Purucker, D., Salinas, M., & Carretero-Paulet, L. (2020). Evolutionary analysis of the *Moringa oleifera* genome reveals a recent burst of plastid to nucleus gene duplications. *Scientific reports*, *10*(1), 1-15.

Toledo-Martín, E. M., García-García, M. D. C., Font, R., Moreno-Rojas, J. M., Salinas-Navarro, M., Gómez, P., & Río-Celestino, D. (2018). Quantification of total phenolic and carotenoid content in blackberries (*Rubus fructicosus* L.) using near infrared spectroscopy (NIRS) and multivariate analysis. *Molecules*, *23*(12), 3191.

Gimenez, E., Salinas, M., & Manzano-Agugliaro, F. (2018). Worldwide research on plant defense against biotic stresses as improvement for sustainable agriculture. *Sustainability*, *10*(2), 391.

Toledo-Martín, E. M., García-García, M. C., Font, R., Moreno-Rojas, J. M., Gómez, P., Salinas-Navarro, M., & Del Río-Celestino, M. (2016). Application of visible/near-infrared reflectance spectroscopy for predicting internal and external quality in pepper. *Journal of the Science of Food and Agriculture*, *96*(9), 3114-3125.

Capel, C., Del Carmen, A. F., Alba. ... & Granell, A. (2015). Wide-genome QTL mapping of fruit quality traits in a tomato RIL population derived from the wild-relative species *Solanum pimpinellifolium* L. *Theoretical and Applied Genetics*, *128*(10), 2019-2035. (6/12)

Xing, S*., Salinas, M*., Garcia-Molina, A., Höhmann, S., Berndtgen, R., & Huijser, P. (2013). SPL8 and miR156-targeted SPL genes redundantly regulate Arabidopsis gynoecium differential patterning. *The Plant Journal*, *75*(4), 566-577. (*contributed equally)

Salinas, M., Capel, C., Alba, J. M., Mora, B., Cuartero, J., Fernández-Muñoz, R., Lozano, R., & Capel, J. (2013). Genetic mapping of two QTL from the wild tomato *Solanum pimpinellifolium* L. controlling resistance against two-spotted spider mite (*Tetranychus urticae* Koch). *Theoretical and applied genetics*, *126*(1), 83-92.

Salinas, M., Xing, S., Höhmann, S., Berndtgen, R., & Huijser, P. (2012). Genomic organization, phylogenetic comparison and differential expression of the SBP-box family of transcription factors in tomato. *Planta*, *235*(6), 1171-1184.

Xing, S., Salinas, M., & Huijser, P. (2011). New players unveiled in early anther development. *Plant signaling & behavior*, *6*(7), 934-938.

Xing, S., Salinas, M., Höhmann, S., Berndtgen, R., & Huijser, P. (2010). miR156-targeted and nontargeted SBP-box transcription factors act in concert to secure male fertility in Arabidopsis. *The Plant Cell*, *22*(12), 3935-3950.

C.2. Research projects:

1. *Project Id*: AGL2012-40150-C03-02. *Project Title*: Identificación, etiquetado y análisis funcional de genes implicados en el cuajado del fruto de tomate y tolerancia a la salinidad en especies silvestres relacionadas. *Funding institution*: Ministerio de Economía y Competitividad. 2013-2015. *PI*: Mª Trinidad Angosto Trillo. *Funding*: 210.600 EUR. *Role*: Full Time Researcher

2. *Project Id*: AGL2007-66760-C02-01. *Project Title*: Mejora genética del tomate para resistencia a las plagas de araña roja y *Bemisia tabaci*. *Funding institution*: Ministerio de Ciencia e Innovación. 2007-2010. *PI*: Juan Capel Salinas. *Funding*: 160.930 EUR. *Role*: Full Time Researcher

3. *Project Id*: AGL2004-06985-C02-02. *Project Title*: Búsqueda de marcadores moleculares utiles para la selección y mejora del tomate para resistencia a araña roja. *Funding institution*: Ministerio de Ciencia e Innovación. 2004-2007. *PI*: Juan Capel Salinas. *Funding*: 92.000 EUR. *Role*: Full Time Researcher

C.5. Teaching & Mentoring

C.5.1 Teaching:

2000-2020

Subject	Degree	Teaching Hours	University
Genetics	Ingenierio Técnico Agrícola	390	Almería
Horticultural Plant Breeding	Ingenierio Técnico Agrícola	60	Almería
Plant Breeding	Ingenierio Agrónomo	210	Almería
Genetics and Plant Breeding	Grado de Agronomía	524	Almería
Plant breeding and Protection	Grado de Agronomía	67,5	Almería
(Population) Genetics	Licenciatura en Ciencias Ambientales	330	Almería
Genetic Engineering	Máster en Biotecnología Industrial y	60	Almería

	Agroalimentaria		
Agricultural Biotechnology	Máster en Biotecnología Industrial y Agroalimentaria	51	Almería
Food Biotechnology	Máster en Biotecnología Industrial y Agroalimentaria	30	Almería
Molecular Genetics	Grado en Biotecnología	30	Almería
Microalgae biotecnology	Grado en Biotecnología	27,6	Almería
Genomics and Proteomics	Grado en Biotecnología	90	Almería
Molecular Genetics	Ingeniería Química	15	Almería
Molecular Markers in Agronomy	Máster en Agronomía	45,2	Almería

C.5.2 Supervision of Bachelor's and master's theses:

Supervision of 6 master's theses and 5 Bachelor's theses from 2011-2020

C.6. Peer-review activities:

- Examiner of PhD Theses: 2 (2010 & 2016, Universidad de Almería)

C.7. Professional accreditations:

- Positive evaluation for "**Profesor Titular**" (issued by the Spanish National Agency for Quality Assessment and Accreditation (ANECA).

C.8. Other merits:

- *Languages*: English: C1