CURRICULUM VITAE (CVA)

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

CV date	09/05/2022

Part A. PERSONAL INFORMATION

First name	Julio		
Family name	Salinas		
Gender (*)	Hombre	Birth date (dd/mm/yyyy)	18/01/1956
ID number	01093133N		
e-mail	salinas@cib.csic.es	URL Web: https://www.cib.csic.es/es/departamentos/biotecnologia-microbiana-y-de-plantas/biologia-molecular-de-plantas	
Open Research and Contributor ID (ORCID)(*)		0000-0003-2020-0950	

(*) Mandatory

A.1. Current position

Position	Research Professor		
Initial date	06/06/2006		
Institution	Centro de Investigaciones Biológicas Margarita Salas-CSIC		
Departament/Center	Microbial and Plant Biotechnology		
Country	Spain	Teleph. number	911097303
Key words	Plant molecular biology, Plant genetics, Arabidopsis, Abiotic stress, Tomato		

A.2. Previous positions (research activity interruptions, art. 45.2.c))

Period	Position/Institution/Country/Interruption cause
1983-1986	Postdoc/Inst. J. Monod-CNRS/France
1986-2006	Principal Investigator/INIA/Spain
1989-1991	Visiting Scientist/The Rockefeller Univ./USA
2006-Present	Research Professor/CSIC/Spain

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD	Univ. Complutense/Spain	1983

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

Since 1990, his main research interest has been understanding the molecular mechanisms that control the adaptive responses of plants to adverse environmental conditions, such as extreme temperatures, drought or salinity in soils. During this time, he has made substantial contributions to the field, as evidenced by the number and quality of the scientific publications raised from his laboratory and the seminars and conferences he has given. In fact, he has published more than 90 scientific papers in SCI journals (*h*-index: 45, 7028 citations), most of them belonging to the first quartile of their subject area, and some of them having high IF (Science, PNAS, EMBO J, Plant Cell, NAR or Nature Plants). He has been invited to give numerous lectures at national and international conferences (Gordon Conferences, Keystone

Meetings, International Conference in Arabidopsis Research or International Congress on Plant Molecular Biology), and is a frequent reviewer for prestigious international scientific journals, as well as a scientific evaluator for national and international funding agencies. Also as a result of the research activity in his lab, he has 3 international patents licensed, two of them being exploited by Plant Response Inc. In Furthermore, he has been PI of 19 competitive research projects funded by different national and international agencies, and has supervised 14 PhD theses, currently supervising two more, and more than 20 postdocs. In most cases, students and postdocs have followed a scientific or academic career and many of them have now their own groups. At present, he leads the Laboratory of Plant Molecular Biology at the Centro de Investigaciones Biológicas Margarita Salas-CSIC, and belonging to the Department of Microbial and Plant Biotechnology, of which he was Head from 2008 to 2019. On the other hand, He has been a member of different scientific committees and national and international evaluation panels, including the International Committee of Evaluation and Monitoring of the Academy of Finland (Plant Science), the PEOPLE Program of the European 7th Framework Program (Spanish representative), the Spanish Agency of Evaluation and Prospective (ANEP) (assistant to the Coordinator of the Molecular and Cellular Biology and Genetics Area), and the Spanish Agency for the Evaluation of Quality and Accreditation (ANECA) (expert for the ACADEMIA Program). Currently, he is a member of the Executive Committee of INVEGEN (CSIC representative), as well as of the Scientific Committee of the European COST Program (Spanish representative).

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

C.1. Publications *(selected last 10 years)*

- Perea-Resa, C., Hernandez-Verdeja, T., Lopez-Cobollo, R., Castellano, M. M. and **Salinas, J**. LSM proteins provide accurate splicing and decay of selected transcripts to ensure normal Arabidopsis development. Plant Cell 24: 4930-4947 (2012).
- R. Catala, R. Lopez-Cobollo, M. M. Castellano, T. Angosto, J. M. Alonso, J. R. Ecker and **J. Salinas.** The Arabidopsis 14-3-3 protein RARE COLD INDUCIBLE 1A links low-temperature response and ethylene biosynthesis to regulate freezing tolerance and cold acclimation. Plant Cell 26: 3326-3342 (2014).
- C. Perea-Resa, C. Carrasco-López, R. Catalá, V. Turecková, O. Novak, W. Zhang, L. Sieburth, J. M. Jiménez-Gómez and **J. Salinas**. The LSM1-7 complex differentially regulates Arabidopsis tolerance to abiotic stress conditions by promoting selective mRNA decapping. Plant Cell 28: 505-520 (2016).
- C. Perea-Resa, M. A. Rodríguez-Milla, E. Iniesto, V. Rubio and **J. Salinas**. Prefoldins negatively regulate cold acclimation in Arabidopsis thaliana by promoting nuclear proteasome-mediated HY5 degradation. Molecular Plant 10: 791-804 (2017).
- C. Carrasco-López, T. Hernandez-Verdeja, C. Perea-Resa, D. Abia, R. Catalá and **J. Salinas**. Environment-dependent regulation of spliceosome activity by the LSM2-8 complex in Arabidopsis. Nucleic Acids Research 45: 7416-7431 (2017).
- R. Catalá and **J. Salinas**. Tailoring crop nutrition to fight weeds. Proc. Natl. Acad. Sci. USA. 115: 7456-7458 (2018).
- E. Olate, J. J. Jiménaz-Gómez, L. Holuigue and **J. Salinas**. NPR1 mediates a novel regulatory pathway in cold acclimation by interacting with HSFA1 factors. Nature Plants 4: 811-823 (2018).
- R. Huertas, R. Catalá, J. M. Jiménez-Gómez, M. M. Castellano, P. Crevillén, M. Piñeiro, J. A. Jarillo and **J. Salinas**. Arabidopsis SmE1 regulates plant development and response to abiotic stress by determining spliceosome activity specificity. Plant Cell 31: 537- 554 (2019).
- J. D. Esteve-Bruna, C. Carrasco-López, N. Blanco-Touriñán, J. Iserte, J. Calleja-Cabrera, C. Perea-Resa, C. Urbez, P. Carrasco, M. J. Yanovsky, M. A. Blázquez, **J. Salinas*** and D. Alabadí*. Prefoldins contribute to maintaining the levels of the spliceosome LSM2–8 complex through Hsp90 in Arabidopsis. Nucleic Acids Research 48: 6280-6293 (2020) (*corresponding authors).

- Rafael Catalá, Rosa López-Cobollo, Alvaro Berbís, Jesús Jiménez-Barbero and **Julio Salinas**. Trimethylamine N-oxide is a new plant molecule that promotes abiotic stress tolerance. Science Advances 7, eabd9296. doi: 10.1126/sciadv.abd9296 (2021).

C.2. Congress *(selected invited conferences last 10 years)*
- Conference on Plant and Microbe Adaptations to Cold, Sapporo (Japón), Junio 2012
- The OPTICHINA International Conference, Beijing (China), Mayo 2014
- Conference on Innate Immunity of Plants, Helsinki (Finlandia), Junio 2015
- Annual Meeting of the Society for Experimental Biology, Florencia (Italia), Julio 2018
- Plant Biology Europe Meeting, Turin (Italy), June 2021

C.3. Research projects *(last 10 years)*
- CSD2007-00057. Function and biotechnological potential of plant transcription factors. Funding Agency: CICYT (Consolider Program). PI: J. Salinas, Project Coordinator: J. Paz-Ares. Institution affiliation: CSIC. Date of start and end: 2007-2013. Amount of subsidy: 135.000 €.
- EUI2009-04074. Tomato breeding for tolerance to abiotic stresses: a genomic approach for a sustainable agriculture. Funding Agency: CICYT (ERA-NET Program). PI: J. Salinas, Project Coordinator: R. Lozano. Institution affiliation: CSIC. Date of start and end: 2009-2013. Amount of subsidy: 270.000 €.
- BIO2010-17545. Posttranscriptional mechanisms involved in the process of cold acclimation in Arabidopsis. Funding Agency: CICYT (ERA-NET Program). PI: J. Salinas. Institution affiliation: CSIC. Date of start and end: 2011-2014. Amount of subsidy: 308.000 €.
- BIO2013-47788-R. Regulatory mechanisms of cold acclimation mediated by long non-coding RNAs in Arabidopsis. Funding Agency: DGICYT. PI: J. Salinas. Institution affiliation: CSIC. Date of start and end: 2014-2016. Amount of subsidy: 326.700 €.
- BIO2016-79187-R. Characterization of new regulatory mechanisms of pre-mRNA splicing involved in plant tolerance to freezing temperatures and other related abiotic stresses. Funding Agency: AEI/FEDER, UE. PI: J. Salinas. Institution affiliation: CSIC. Date of start and end: 2016-2020. Amount of subsidy: 308.550 €.
- PID2019-106987RB-100. Uncovering the function of Arabidopsis PAT1 mRNA decapping activators as new regulators of plant tolerance to abiotic stress. Funding Agency: AEI. PI: J. Salinas. Institution affiliation: CSIC. Date of start and end: 2020-2023. Amount of subsidy: 296.450 €.

C.4. Contracts, technological or transfer merits
Patents *(last 10 years)*
- Authors: **Salinas, J**., Catalá, R., Borja, M., Bonet-Gigante, J. and Molina, A.
  Reference: US9198416. Title: Use of compositions containing PBR3 to induce tolerance to drought stress.
  Priority country: USA (subsequently extended to all countries of the world)
  Date: 15.06.2015. Holder entities: Plant Response Inc. and CSIC
  Company exploiting the patent: Plant Response Inc.
- Authors: **Salinas, J**., Catalá, R., Borja, M., Bonet-Gigante, J. and Molina, A.
  Reference: US9085776. Title: Method for enhancing drought tolerance in plants.
  Priority country: USA (subsequently extended to all countries of the world)
  Date: 18.02.2015. Holder entities: Plant Response Inc. and CSIC
  Company exploiting the patent: Plant Response Inc.

C.5. Thesis supervision *(last 10 years)*
- 2014. Identificación y caracterización funcional del complejo nuclear de proteínas LSM de *Arabidopsis thaliana* en la respuesta de aclimatación a las temperaturas bajas.
  Tamara Hernández Verdeja, Outstanding “Cum Laude”, Universidad Complutense de Madrid

- 2015. Regulación post-transcripcional del desarrollo y la respuesta a estrés abiótico de Arabidopsis thaliana mediada por el complejo LSM1-7.
  Carlos Perea Resa, Outstanding “Cum Laude”, Universidad Complutense de Madrid
- 2017. Molecular and functional characterization of NPR1 in plant responses to abiotic stress conditions.
  Ema Olate Rodríguez, Outstanding “Cum Laude”, Universidad Complutense de Madrid
- 2017. Differential regulation of mRNA metabolism by the LSM complexes in response to abiotic stresses in Arabidopsis.
  Cristian Carrasco López, Outstanding “Cum Laude”, Universidad Complutense de Madrid
- 2019. Molecular mechanisms regulating the process of cold acclimation in Arabidopsis mediated by Long Non Coding RNAs.
  Diego Gómez Martínez, Outstanding “Cum Laude”, Universidad Complutense de Madrid

C.6.Participation in assessment or advisory tasks, membership of international committees, management of scientific activity *(last 10 years)*

- Spanish representative in the Scientific Committee of European COST Program (2019-present).
- CSIC representative in the Executive Committee of Invegen (Association for the promotion of research and technological development in plant genomics) (2012-present).

C.7. R&D management experience *(last 10 years)*

- Head of the Department of Microbial and Plant Biotechnology at the CIB (2008-2019).
- Member of the panel of experts of the ANECA ACADEMIA Program (2008-2017).
- Assistant to the coordinator of the Molecular and Cellular Biology and Genetics Area of ANEP (2005-2011).