CURRÍCULUM VÍTAE NORMALIZADO

Juan Carlos del Pozo Benito

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GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

FECYT FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

- PhD under the supervision of Dr. Paz-Ares studying phosphate starvation.
- Postdoctoral stay in Estelle´s lab (USA) working on auxin signalling and the role of the ubiquitin and ubiquitin-like protein.
- Postdoctoral stay in Crisanto Gutierrez's lab (Madrid, Spain) studying the control of cell division in plants and the role of the ubiquitin pathway.
- Permanent position at the INIA. Herein I stablished my own lab working on cell division, root growth and lateral root formation.

During my scientific career I have worked in different areas of plant biology, ranging from nutrient deficiencies, cell division, hormonal signaling and epigenetics. I have great experience in genetic, molecular biology, transcriptomic, proteomic and metabolomic analyses. This **experience in different areas** has contributed very positively to my view of Science and the possibility to deal with complicated biological questions, which I have addressed positively in the majority of the cases. We have engineered a novel device (D-Root) to cultivate plants in vitro with roots in darkness. The D-Root allowed us to identify novel molecules that regulate cell division and differentiation, integrating hormonal and ROS signals.

Currently, we are **addressing exciting, but really challenging questions**, such as: 1) Function of **BiAux**, a novel metabolite in plants that regulated root growth and seems to act as an anti-auxin. 2) **Identification of ecotypes** that are more efficient growing in low phosphate (Pi) mediums using our D-Root system. 3) **Role of SAM** (S-adenosyl-methionine), a key metabolic component, in Pi-starvation responses. 4) **Roles of two Zeatin isomer, cisZ and transZ in the response to Pi deficiency**. I truly believe that the experience and knowledge acquired during these years will allow me to answer these exciting and novel questions. In addition, during the last year, I have generated excellent science (see cv). In general, the most relevant milestones of my career can be summarized as:

- We were the first group that identified and purified an acid phosphatase induced by phosphate starvation in plant.
- We the first to assigned a function to AXR1 gene and to stablish ta role of the ubiquitin pathway in they auxin response
- We were pioneers in the functional characterization of the transcription factor E2F/DP in the regulation of cell cycle in plant.
- We first identified the human homologous Skp2 in plants. This F-box also target for degradation E2F factors and positively regulate cell division in plants.
- We showed that Arabidopsis SKP2A binds auxin, pointing a novel nexus between auxin and cell cycle control.
- We have identified and donate to the community a novel and reliable lateral root marker (SKP2B:GUS).
- We have engineered a novel device to grow plant in vitro with the root system in darkness and the shoot in presence of light. This device, D-Root, is revolutionizing the root biology field.
- We have demonstrated that flavonols integrate hormonal and ROS signaling to control and balance cell division and cell differentiation. Also flavonols control root light avoidance.

- We showed the relevance of alternative polyadenylation in root development and stress response.
- We showed the influence of root illumination on phosphate starvation response. In this work a new role of different zeatin isomers in controlling this response and coordinating it with root growth and cell division is proposed.

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

- 4 “sexenios” 1992-2017; 1 technology sexenio requested.
- Number of articles within SCI: 50 (46 in Q1)
- Number of citations

SCOPUS: 1995-2019= 3320 **h index**= 28
2014-2019= 1920 **h index**= 23
Google Scholar: 1995-2019= 4576 **h index**= 31
2012-2019= 1898 **h index**= 27
Research Gate 1995-2019= 4217 **h index** = 33 RG score 36.08

https://scholar.google.es/citations?hl=en&user=5qHh4AAAAJ&view_op=list_works&sortby=pubdate

- Number of publications in the first quartile: 45 out of 50
- Number of projects: participation in projects: 15 (PI of 8) (European project: 2).
- Number of invited talks: 24.
- Contracts with companies: 3.
- Supervised Thesis: 5

Juan Carlos del Pozo Benito

Surname(s): **del Pozo Benito**
Name: **Juan Carlos**
ORCID: **0000-0002-4113-457X**
Date of birth: **01/09/1968**
Gender: **Male**
Email: **pozo@inia.es**

Current professional situation

Employing entity: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)
Department: biotecnologia, Centro de Biotecnología y Genómica de Plantas
Professional category: Profesor de Investigación
Start date: 18/06/2018
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 241502 - Molecular biology of plants
Performed tasks: Principal investigator Deputy Director of CBGP

Employing entity: INSTITUTO NAC. DE INV. Y TEC. AGRARIA Y ALIMENTARIA (INIA)
Department: DEPARTAMENTO DE BIOTECNOLOGIA, SUBDIRECCION GENERAL DE INVESTIGACION Y TECNOLOGIA
Professional category: Investigador A2
Start date: 15/02/2004
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 240992 - Molecular genetics of plants
Performed tasks: Investigador A2

Previous positions and activities

	Employing entity	Professional category	Start date
1	CBM-SO, CSIC	Contratado "Ramón y Cajal" (MCYT)	15/11/2002
2	CNB-CSIC	Becario Postdoctoral	
3	CBM-SO, CSIC	Becario Postdoctoral (CAM)	
4	Indiana University (USA)	Becario Postdoctoral (MEC)	
5	Dept Genética-UCM	Becario Predoctoral	
6	Dept Genética-UCM	Becario de Colaboración MEC	
7	CBM-SO, CSIC	Contratado Postdoctoral (MCYT)	
8	USA	Contratado en la Universidad de Indiana	
9	USA	Contratado en la Universidad de Texas,	
10	Centro de Biología Molecular Severo Ochoa	Ramón y Cajal, CSIC	
11	Indiana University (USA)	Research Assosiate	

1 **Employing entity:** CBM-SO, CSIC
Professional category: Contratado "Ramón y Cajal" (MCYT)
Start date: 15/11/2002

2 **Employing entity:** CNB-CSIC
Professional category: Becario Postdoctoral

3 **Employing entity:** CBM-SO, CSIC
Professional category: Becario Postdoctoral (CAM)

4 **Employing entity:** Indiana University (USA)
Professional category: Becario Postdoctoral (MEC)

5 **Employing entity:** Dept Genética-UCM
Professional category: Becario Predoctoral

6 **Employing entity:** Dept Genética-UCM
Professional category: Becario de Colaboración MEC

7 **Employing entity:** CBM-SO, CSIC
Professional category: Contratado Postdoctoral (MCYT)

8 **Employing entity:** USA
Professional category: Contratado en la Universidad de Indiana

9 **Employing entity:** USA
Professional category: Contratado en la Universidad de Texas,

10 **Employing entity:** Centro de Biología Molecular Severo Ochoa
Professional category: Ramón y Cajal, CSIC

11 **Employing entity:** Indiana University (USA)
Professional category: Research Assosiate

Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

Name of qualification: Licenciado en Biología
Degree awarding entity: Facultad de Biología-Universidad Complutense de Madrid
Type of entity: University
Date of qualification: 01/06/1991

Doctorates

Doctorate programme: Doctor en Biología
Degree awarding entity: Biologicas-Universidad Complutense de Madrid
Date of degree: 04/04/1996

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		C1	C1	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

1 **Project title:** Uso de la variabilidad natural para mejorar el crecimiento de las plantas en condiciones de bajo fosfato
Type of project: TFM
Co-director of thesis: Miguel Moreno-Risueño
Entity: Universidad Politécnica de Madrid
Student: Victoria Baca González
Date of reading: 16/07/2019

2 **Project title:** Papel de FIP1 en la regulación del desarrollo y la respuesta a estrés mediante poliadenilación alternativa en Arabidopsis thaliana
Type of project: Doctoral thesis
Entity: Universidad Complutense de Madrid
Student: Barbara Tellez Robledo
Date of reading: 23/06/2017

3 **Project title:** Respuestas del sistema radicular en condiciones de deficiencia de fosfato
Type of project: TFM
Entity: Universidad Politécnica de Madrid
Student: Clara Echevarría Zomeño
Date of reading: 27/05/2016

4 **Project title:** Respuestas del sistema radicular en condiciones de deficiencia de fosfato
Type of project: TFM
Entity: Universidad Politécnica de Madrid
Student: Clara Echevarría Zomeño
Date of reading: 27/05/2016

5 **Project title:** Identificación de nuevos genes y moléculas bioactivas en la deficiencia de fosfato en las raíces de Arabidopsis thaliana
Type of project: TFM
Entity: Universidad Autonoma de madrid
Student: Laura Diaz Marugan
Date of reading: 30/06/2015

6 **Project title:** SROL1, un Nuevo gen que une desarrollo radicular y respuesta a la luz
Type of project: Doctoral thesis
Entity: Universidad de Extremadura **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: Mercedes Pallero Baena
Date of reading: 22/01/2015

7 **Project title:** Efecto del aluminio, del ayuno de fosfato y de la luz en el crecimiento y arquitectura radicular
Type of project: Doctoral thesis
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Javier Silva Navas
Date of reading: 19/12/2014

8 **Project title:** Functional analysis of SKP2A interactions
Type of project: TFM
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Bárbara Téllez Robledo
Date of reading: 21/06/2012

9 **Project title:** Papel de la ruta de la ubiquitina-SCF en el desarrollo de la arquitectura radicular en plantas
Type of project: Doctoral thesis
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Concepción Manzano Fernandez
Date of reading: 16/12/2011

10 **Project title:** SCFSKP2A function. Study of SKP2A-DPB interaction
Type of project: TFM
Entity: Technical University of Lodz y Universidad Politécnica de Madrid
Student: Katarzyna Górecka
Date of reading: 10/06/2011

11 **Project title:** Role of the Ubiquitin pathway and the SCF-SKP2B in the root system development.
Type of project: Doctoral thesis
Entity: Universidad Complutense de Madrid
Student: Concepción Manzano fernandez
Date of reading: 16/02/2011

12 **Project title:** Estudio de la proteína F-box SKP2A de Arabidopsis thaliana en la división celular y en la respuesta a auxina
Type of project: Doctoral thesis
Entity: Universidad Complutense de Madrid
Student: Silvia Jurado Sanchez
Date of reading: 21/11/2009

13 **Project title:** Papel del complejo SCF-SKP2A en el crecimeinto de las palntas
Type of project: TFM
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Emma Martinez Sanchez
Date of reading: 15/07/2007

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 **Name of the project:** Root Responses to Phosphate Starvation: New Approaches to improve Plant Growth with reduced Fertilization
Entity where project took place: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)
City of entity: madrid, Community of Madrid, Spain
Nº of researchers: 2
Start-End date: 01/01/2018 - 31/12/2020
Total amount: 150.000 €

2 **Name of the project:** Identificación de Nuevos genes y productos bio-activos para la Optimización de los Recursos Naturales dentro una Agricultura Sostenible
Entity where project took place: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)
City of entity: Madrid, Community of Madrid, Spain
Nº of researchers: 3
Start-End date: 01/01/2015 - 31/12/2017
Total amount: 140.000 €

3 **Name of the project:** Plant Molecular Genetics for an Enviromentally Compatible Agriculture
Entity where project took place: Centro Nacional de Biotecnología **Type of entity:** State agency
City of entity: madrid, Community of Madrid, Spain
Nº of researchers: 4

Start-End date: 01/01/1995 - 31/12/1998

4 **Name of the project:** Phosphate and Crop Productivity
Entity where project took place: Centro Nacional de Biotecnología **Type of entity:** State agency
City of entity: madrid, Community of Madrid, Spain
Nº of researchers: 8
Start-End date: 01/01/1991 - 31/12/1994

5 **Name of the project:** Conexión de las Auxinas y el Ciclo Celular a través del complejo SCF-SKP2. Desarrollo de las Raíces Laterales II
Entity where project took place: INIA
Name principal investigator (PI, Co-PI....): Juan Carlos del Pozo Bennito
Nº of researchers: 3
Funding entity or bodies:
MINECO

Start date: 01/01/2012
Total amount: 155.000 €

6 **Name of the project:** HD2008-2021 Functional Characterization of Arabidopsis PRC1 ring finger protein homologs
Entity where project took place: INIA Universidad de Heidelberg
Name principal investigator (PI, Co-PI....): Juan Carlos del Pozo
Funding entity or bodies:
MICIIN

Start date: 01/01/2009
Total amount: 11.000 €

7 **Name of the project:** BIO2008-00639 Function of the Ubiquitin Pathway during LR Formation: Proteomic and Genetic studies
Entity where project took place: INIA
Name principal investigator (PI, Co-PI....): Juan carlos del Pozo
Funding entity or bodies:
MICIIN

Start date: 15/12/2008
Total amount: 155.000 €

8 **Name of the project:** BIO2007-61257: Análisis Funcional y Proteómico de la Ruta de la Ubiquitina durante el Desarrollo de las Raíces Laterales en Plantas.
Entity where project took place: INIA
Name principal investigator (PI, Co-PI....): Carlos del Pozo Benito
Funding entity or bodies:
Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency

Start date: 14/12/2007
Total amount: 38.000 €

9 **Name of the project:** Transplanta: Function and biotechnological potential of Transcription Fators in plants.
Name principal investigator (PI, Co-PI....): Javier Paz-Ares
Funding entity or bodies:

MICINN

Start date: 15/10/2007
Total amount: 5.000.000 €

10 **Name of the project:** CSD2007-0057 Transplanta: Function and biotechnological potential of Transcription Fators in plants
Entity where project took place: CSIC, INIA, UAM, UMH, USA, etc
Name principal investigator (PI, Co-PI....): Javier Paz Ares
Funding entity or bodies:
MICINN

Start date: 09/10/2007
Total amount: 6.000.000 €

11 **Name of the project:** Ubiqultura: ESTUDIO PROTEÓMICO DE LA RUTA DE LA UBIQUITINA PARA LA MEJORA DE PLANTAS DE INTERES AGROALIMENTARIO.
Entity where project took place: INIA, CSIC, UAM, UCM
Name principal investigator (PI, Co-PI....): Crisanto Gutierrez
Funding entity or bodies:
CAM

Start date: 01/01/2007
Total amount: 875.000 €

12 **Name of the project:** La Ruta de la Ubiquitina en Plantas. Análisis proteómico y funcional de los complejos SCFAtSKP2
Entity where project took place: INIA
Name principal investigator (PI, Co-PI....): Juan Carlos del Pozo
Funding entity or bodies:
Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency

Start date: 01/01/2005
Total amount: 114.000 €

13 **Name of the project:** Genómica Española Funcional de Arabidopsis (GEFA)
Name principal investigator (PI, Co-PI....): Javier Paz-Ares
Funding entity or bodies:
MCYT

Start date: 01/01/2003
Total amount: 0 €

14 **Name of the project:** Manipulación de la arquitectura de la planta a través de reguladores del ciclo celular:aplicaciones en biotecnología de plantas
Entity where project took place: CSIC
Name principal investigator (PI, Co-PI....): Crisanto Gutierrez
Funding entity or bodies:
Comunidad de Madrid **Type of entity:** Body, others

Start date: 01/01/2003
Total amount: 0 €

15 **Name of the project:** Proteólisis de Reguladores del Ciclo Celular mediada por la Ruta de la Ubiquitina. Utilización de la Proteómica para el Estudio de la Función del Complejo SCFAtSKP2 en Plantas
Entity where project took place: CBM-CSIC
Name principal investigator (PI, Co-PI....): Juan Carlos del Pozo
Funding entity or bodies:
MCYT

Start date: 01/12/2001
Total amount: 83.000 €

16 **Name of the project:** "European Cell Cycle Consortium (ECCO)"
Entity where project took place: CSIC
Name principal investigator (PI, Co-PI....): Crisanto Gutierrez
Funding entity or bodies:
EU

Start date: 01/01/2000
Total amount: 0 €

17 **Name of the project:** Function of the AXR1 and the AXR1-like genes in Arabidopsis and yeast
Entity where project took place: Indiana University
Name principal investigator (PI, Co-PI....): Mark Estelle
Funding entity or bodies:
Instituto de Salud Carlos III **Type of entity:** Administrative Body of the National Health System

Start date: 01/01/1997
Total amount: 0 €

18 **Name of the project:** Plant Molecular Genetics for an Enviromentally Compatible Agriculture
Entity where project took place: CSIC
Name principal investigator (PI, Co-PI....): Javier Paz-Ares
Funding entity or bodies:
CEE

Start date: 01/01/1995
Total amount: 0 €

19 **Name of the project:** Marcadores Moleculares ligados a genes de resistencia a hongos, nematodos y aluminio en centeno.
Entity where project took place: UCM
Name principal investigator (PI, Co-PI....): Cesar Benito
Funding entity or bodies:
CICYT AGR91-0021

Start date: 01/01/1991
Total amount: 0 €

20 **Name of the project:** Phosphate and Crop Productivity
Entity where project took place: CSIC
Name principal investigator (PI, Co-PI....): Javier Paz-Ares
Funding entity or bodies:
CEE

Start date: 01/01/1991
Total amount: 0 €

R&D non-competitive contracts, agreements or projects with public or private entities

1 **Name of the project:** Desarrollo de nuevas moléculas vegetales que promuevan y potencien el desarrollo de las plantas
Degree of contribution: Scientific coordinator
City of entity: Community of Madrid, Spain
Nº of researchers: 3
Participating entity/entities: INIA; Timac Agro Spain
Start date: 21/12/2017 **Duration:** 3 years
Total amount: 126.000 €

2 **Name of the project:** Análisis del crecimiento de los puerros post-envasados. Efecto de la luz.
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Juan C. del Pozo
Nº of researchers: 2
Participating entity/entities: Reypama-INIA
Funding entity or bodies:
Reypama
Start date: 01/07/2010 **Duration:** 1 year
Total amount: 6.000 €

3 **Name of the project:** Expression of celluloses in chloroplast to potentiate the degradation of the cell wall to generate biofuel
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Juan Carlos del Pozo
Nº of researchers: 4
Participating entity/entities: Plant Bioproducts and INIA
Funding entity or bodies:
MIICN
Start date: 01/02/2007 **Duration:** 3 years - 8 months - 13 days
Total amount: 198.000 €

Results

Industrial and intellectual property

1 **Title registered industrial property:** Use of compounds to regulate vegetal growth
Inventors/authors/obtainers: juan Carlos del Pozo Benito; Concepcion Manzano Fernandez; Pilar Hoyos Vidal; Maria Josefa Hernaiz; Stephan Pollmann
Entity holder of rights: INIA-UCM-UPM
Nº of application: 201630412
Country of inscription: Spain, Community of Madrid
Date of register: 05/08/2016
Conferral date: 05/08/2016

2 **Title registered industrial property:** DISPOSITIVO PARA EL CRECIMIENTO DE RAICES EN CIJLTIVOS IN VITRO
Inventors/authors/obtainers: Juan Carlos del Pozo; Benito, Javier Gallego; Rodriguez, Javier Silva; Navas
Entity holder of rights: INIA
Country of inscription: Unknown
Date of register: 19/08/2013
Operating aut.region/region: Foreign
Companies: -

3 **Title registered industrial property:** PLANTAS TRANSGÉNICAS AtPSKP2D, SU PROCEDIMIENTO DE OBTENCIÓN Y SUS APLICACIONES
Inventors/authors/obtainers: del Pozo, J.; and Gutierrez, C.
Entity holder of rights: CSIC
Country of inscription: Unknown
Date of register: 11/10/2004

4 **Title registered industrial property:** Nucleic Acid Molecules for Producing Modified Auxin Responses in Plants
Inventors/authors/obtainers: Estelle, m.; del Pozo, J.; and Gray, W.
Entity holder of rights: Indiana University
Country of inscription: Unknown
Date of register: 16/03/2000
Operating aut.region/region: Foreign
Companies: Pioneer (en trámite)

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Silva-Navas J.; Conesa C.; Saez A.; Navarro-Neila S.; Garcia-Mina J.; Zamarreño A.; Baigorri R.; Swarup R.; del Pozo J.Role of cis-zeatin in root responses to phosphate starvation. New Phytologist. 224, pp. 242 - 257. 2019. ISSN 0028646X

DOI: 10.1111/nph.16020

Type of production: Scientific paper **Format:** Journal

Source of citations: SCOPUS **Citations:** 1

2 Téllez-Robledo B.; Manzano C.; Saez A.; Navarro-Neila S.; Silva-Navas J.; de Lorenzo L.; González-García M.; Toribio R.; Hunt A.; Baigorri R.; Casimiro I.; Brady S.; Castellano M.; del Pozo J.The polyadenylation factor FIP1 is important for plant development and root responses to abiotic stresses. Plant Journal. 99, pp. 1203 - 1219. 2019. ISSN 09607412

DOI: 10.1111/tpj.14416

Type of production: Scientific paper **Format:** Journal

3 Sayas E; Pérez-Benavente B; Manzano C; Farràs R; Alejandro S; Del Pozo JC; Ferrando A; Serrano R. Polyamines interfere with protein ubiquitylation and cause depletion of intracellular amino acids: a possible mechanism for cell growth inhibition.FEBS letters. 2018. ISSN 0014-5793

DOI: 10.1002/1873-3468.13299

PMID: 30447065

Type of production: Scientific paper

4 E. Bustillo-Avendaño; S. Ibáñez; O. Sanz; J.A.S. Barros; I. Gude; J. Perianez-Rodriguez; J.L. Micol; J.C. del Pozo; M.A. Moreno-Risueno; J.M. Pérez-Pérez. Regulation of hormonal control, cell reprogramming, and patterning during de novo root organogenesis. Plant Physiology. 176 - 2, pp. 1709 - 1727. 2018. Available on-line at: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041708987&doi=10.1104%2fpp.17.00980&partnerID=40&md5=4bbf83d5e52fdffc5ae80420457e80c7>.

Type of production: Scientific paper **Format:** Journal

5 C. Manzano; M. Pallero-Baena; J. Silva-Navas; S. Navarro Neila; I. Casimiro; P. Casero; J.M. Garcia-Mina; R. Baigorri; L. Rubio; J.A. Fernandez; M. Norris; Y. Ding; M.A. Moreno-Risueno; J.C. Del Pozo. A light-sensitive mutation in Arabidopsis LEW3 reveals the important role of N-glycosylation in root growth and development. Journal of Experimental Botany. 68 - 18, pp. 5103 - 5116. 2017. Available on-line at: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034596728&doi=10.1093%2fjxb%2ferx324&partnerID=40&md5=d3d71f27b85f39dd5b410d3579271bad>.

Type of production: Scientific paper **Format:** Journal

6 M. Fernández-Marcos; B. Desvoyes; C. Manzano; L.M. Liberman; P.N. Benfey; J.C. del Pozo; C. Gutierrez. Control of Arabidopsis lateral root primordium boundaries by MYB36. New Phytologist. 213 - 1, pp. 105 - 112. 2017. Available on-line at: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997208403&doi=10.1111%2fnph.14304&partnerID=40&md5=cd87d7306ab6b24d0ea71e25505af93a>.

Type of production: Scientific paper **Format:** Journal

7 E. Ramirez-Parra; J. Perianez-Rodriguez; S. Navarro-Neila; I. Gude; M.A. Moreno-Risueno; J.C. del Pozo. The transcription factor OBP4 controls root growth and promotes callus formation. New Phytologist. 213 - 4, pp. 1787 - 1801. 2017. Available on-line at: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85002572545&doi=10.1111%2fnph.14315&partnerID=40&md5=2c5ee917f4a615ca75157c2c9275c55e>.
Type of production: Scientific paper **Format:** Journal

8 M. Garrido-Arandia; J. Silva-Navas; C. Ramírez-Castillejo; N. Cubells-Baeza; C. Gómez-Casado; D. Barber; J.C. Pozo; P.G. Melendi; L.F. Pacios; A. Diáz-Perales. Characterisation of a flavonoid ligand of the fungal protein Alt a 1. Scientific Reports. 6, 2016. Available on-line at: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988010159&doi=10.1038%2fsrep33468&partnerID=40&md5=20781ce93efae64256ed3a7895f9ace8>.
Type of production: Scientific paper **Format:** Journal

9 J. Silva-Navas; M.A. Moreno-Risueno; C. Manzano; B. Téllez-Robledo; S. Navarro-Neila; V. Carrasco; S. Pollmann; F.J. Gallego; J.C. Del Pozo. Flavonols mediate root phototropism and growth through regulation of proliferation-to-differentiation transition. Plant Cell. 28 - 6, pp. 1372 - 1387. 2016. Available on-line at: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978173348&doi=10.1105%2ftpc.15.00857&partnerID=40&md5=d5e3239ac5d9d4253d68c980cf7224d8>.
Type of production: Scientific paper **Format:** Journal

10 J.C. del Pozo. Reactive Oxygen Species: From Harmful Molecules to Fine-Tuning Regulators of Stem Cell Niche Maintenance. PLoS Genetics. 12 - 9, 2016. Available on-line at: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990204088&doi=10.1371%2fjournal.pgen.1006251&partnerID=40&md5=e3086b296c1a26a0312aa6c2059cafe
Type of production: Scientific paper **Format:** Journal

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Type of production: Scientific book or monograph **Format:** Book

Works submitted to national or international conferences

1 **Title of the work:** Revealing new insights into root responses to phosphate starvation
Name of the conference: Sociedad española de Fisiología Vegetal
Type of event: Conference
Corresponding author: Yes
City of event: Pamplona, Spain
Date of event: 26/06/2019
End date: 28/06/2019
Organising entity: Sociedad española de Fisiología Vegetal
Jaun C. del Pozo.

2 **Title of the work:** BiAux, a novel plant metabolite, increases lateral root production
Name of the conference: XXIII Reunión bianual de la Sociedad Española de Fisiología
City of event: Pamplona, Spain
Date of event: 26/06/2019
End date: 28/06/2019
Organising entity: Sociedad española de Fisilología Vegetal
et al.; Juan C. del Pozo; Angela Saez.

3 **Title of the work:** Genome-wide alternative polyadenylation analyses reveal new pathways that function in root responses to nitrogen deficiency
Name of the conference: XXIII Reunión bianual de la Sociedad Española de Fisiología Vegetal
City of event: Pamplona, Spain
Date of event: 26/06/2019
End date: 28/06/2019
Organising entity: Sociedad española de Fisilología Vegetal
et al.; Juan c. del Pozo; Carlos Conesa.

4 **Title of the work:** Turning off the light: New insights on root responses to Pi starvation
Name of the conference: XV SIMPOSIO SOBRE METABOLISMO Y MODO DE ACCIÓN DE FITOHORMONAS
Corresponding author: Yes
City of event: Valencia, Spain
Date of event: 13/12/2018
End date: 14/12/2018

5 **Title of the work:** Turning off the light: New insights on root responses to Pi starvation
Name of the conference: XIII reunion de Biología Vegetal Chilena
Corresponding author: Yes
City of event: Puerto Varas, Chile
Date of event: 03/12/2018
End date: 06/12/2018
Organising entity: Sociedad Biologia Vegetal Chilena

6 **Title of the work:** Turning off the light: New insights on root development and response to Pi starvation
Name of the conference: ciclo conferencias Department of Plant Microbe Interactions, Max Planck Institute for Plant Breeding Research
Corresponding author: Yes
City of event: Cologne, Germany
Date of event: 12/11/2018
End date: 13/11/2018

7 **Title of the work:** La incompatibilidad de las Raíces y Luz: cómo Coordinar la Huida de la Luz y el Crecimiento Radicular. Invited Talk
Name of the conference: Ciclo de conferencias Frontiers in Biology-Universidad Autónoma de México
Corresponding author: Yes
City of event: Mexico DF, Mexico
Date of event: 24/11/2017
Organising entity: Universidad **Type of entity:** University
City organizing entity: Mexico, Mexico

8 **Title of the work:** From transcriptomics to metabolites: coordination of cell division and differentiation by flavonols
Name of the conference: SEDB Congress
Corresponding author: Yes
City of event: Gijon, Principality of Asturias, Spain
Date of event: 24/10/2017

9 **Title of the work:** How do Roots scape from light? A Flavonol story Invited talk, Universidad of Minnesota
Name of the conference: conference University of california
Type of event: Conference
City of event: Davis, United States of America
Date of event: 15/09/2017

10 **Title of the work:** How do Roots scape from light? A Flavonol story Invited talk
Name of the conference: conference University of Minnesota
City of event: Minneapolis, United States of America
Date of event: 15/09/2017

11 **Title of the work:** How do Roots scape from light? A Flavonol story Invited talk, Universidad of Minnesota
Name of the conference: conference University of california
City of event: San Diego, United States of America
Date of event: 15/09/2017

12 **Title of the work:** Light and Flavonols Limit Root Growth and Responses
Name of the conference: Plant Organ Growth Symposium
Corresponding author: Yes

City of event: Elche, Valencian Community, Spain
Date of event: 12/02/2017

13 **Title of the work:** Auxinas y ubiquitina: dos promotores de la división celular.
Name of the conference: Congreso Nacional de Fitohormonas
Type of participation: Participatory - others
City of event: Murcia, España,
Date of event: 08/05/2014
Juan carlos del Pozo.

14 **Title of the work:** Root development: Auxin, cell cycle and the ubiquitin pathway
Name of the conference: BioScience conference cycle Invited seminar
Type of participation: Participatory - invited/keynote talk
City of event: Wageningen University, Holland,
Date of event: 06/05/2014
Juan carlos del Pozo.

15 **Title of the work:** Análisis proteómico de las modificaciones inducidas por altas presiones hidrostáticas sobre proteínas inmunoreactivas de avellana mediante cromatografía líquida bidimensional (PF-2D)
Name of the conference: Sociedad Española de Genética
Type of participation: 'Participatory - poster
City of event: Girona, España,
Date of event: 06/09/2013
Prieto N,; Burbano C,; Iniesto E,; Rodriguez J,; Crespo JF, del; Pozo JC, Linacero; Cuadrado C.

16 **Title of the work:** Two players; one target: cell cycle in action
Name of the conference: International SEB meeting
Type of participation: Participatory - invited/keynote talk
City of event: Valencia,
Date of event: 02/07/2013
Juan Carlos del Pozo.

17 **Title of the work:** SKP2A and SKP2B regulates cell division and root architecture in plants.
Name of the conference: Invitation to regular seminar sessions.
Type of participation: Participatory - others
City of event: Nottingham, UK,
Date of event: 14/11/2012
Juan C. del Pozo.

18 **Title of the work:** The cell cycle F-box SKP2A binds auxin
Name of the conference: X Reunion de Biología Molecular de Plantas
Type of participation: Participatory - oral communication
City of event: Valencia, Spain,
Date of event: 08/07/2010
Juan C.; Del Pozo, Silvia; Jurado, Zamira Abraham,; Concepción Manzano, Gema; López-Torrejón, and; Luis F.; Pacios.

19 **Title of the work:** The cell cycle F-box SKP2A binds auxin
Name of the conference: IPGSA meeting
Type of participation: 'Participatory - poster
City of event: Tarragona, Spain,

Date of event: 02/06/2010
Juan C.; Del Pozo, Silvia; Jurado, Zamira Abraham,; Concepción Manzano, Gema; López-Torrejón, and; Luis F.; Pacios.

20 **Title of the work:** Identification of novel genes involved in lateral root formation
Name of the conference: Plant Growth Biology and Modeling Workshop
Type of participation: Participatory - oral communication
City of event: Elche, Spain,
Date of event: 02/11/2009
Del Pozo, C.; Manzano, P.; Casero, I.; Casimiro, B.; De Rybel, and; Beeckman.

21 **Title of the work:** Modulation of cell division in Lycopersicum sculentum (var. Micro-Tom) affects several agronomic traits.
Name of the conference: Tomato Agronomic workshop.
Type of participation: Participatory - oral communication
City of event: Toledo, Spain,
Date of event: 01/10/2009
Del Pozo, C.; Abraham, Z.

22 **Title of the work:** Identification of genes implicated in lateral root development in Arabidopsis thaliana
Name of the conference: 20TH INTERNATIONAL CONFERENCE ON ARABIDOPSIS RESEARDH
Type of participation: Participatory - oral communication
City of event: Edimburgo, Inglaterra,
Date of event: 01/07/2009
Concepcion Manzano, Bert; De Rybel, Tom; Beeckman, J.; Carlos del Pozo."LIBRO DE RESÚMENES PÁG. 39-40.".

23 **Title of the work:** SKP2A, an ubiquitin E3 ligase in cell proliferation
Name of the conference: 20TH INTERNATIONAL CONFERENCE ON ARABIDOPSIS RESEARDH
Type of participation: 'Participatory - poster
City of event: Edimburgo, Inglaterra,
Date of event: 01/07/2009
Silvia Jurado, Zamira; Abraham, Luis F.; Pacios and Carlos del; Pozo,. "absctarct book".

24 **Title of the work:** The F-box SKP2A, a cell division regulator, is degraded in response to auxin
Name of the conference: EMBO meeting
Type of participation: 'Participatory - poster
City of event: Cadiz, Spain,
Date of event: 01/05/2009
Carlos del Pozo, Silvia; Jurado, Luis F.; Pacios and Zamira Abraham. "Abstract book".

25 **Title of the work:** The stability of the cell cycle regulator SCFSKP2A is controlled by auxin.
Name of the conference: Auxin 2008
Type of participation: Participatory - invited/keynote talk
City of event: Mar raques, Marruecos,
Date of event: 06/10/2008
Del Pozo, J.; Jurado, S.; Manzano, C.; Abraham, Z,.

26 **Title of the work:** Function of the Ubiquitin Pathway during lateral root development
Name of the conference: 6th Plant Genomics European Meeting.
Type of participation: 'Participatory - poster

City of event: Teenrife, Spain,
Date of event: 09/10/2007
Manzano, C.; Abraham, Z.; Del Pozo, J."Book Abstract".

27 **Title of the work:** A type 5 acid phosphatase gene from Arabidopsis thaliana is induced by phosphate starvation and by some other types of phosphate mobilising/oxidative stress conditions
Name of the conference: Arabidopsis Meeting
Type of participation: 'Participatory - poster
City of event: Madison, USA,
del Pozo, J.; Allona I.; Rubio, V.; Leyva, A.; Aragoncillo, C.; de la Peña, A.; and Paz-Ares, J.

28 **Title of the work:** AtE2F2, a cell cycle gene repressor, is regulated by ubiquitin-mediated degradation
Name of the conference: Arabidopsis Meeting
Type of participation: Participatory - oral communication
City of event: Sevilla, Spain,
del Pozo, J.; Boniotti, M.; Gutierrez, C.

29 **Title of the work:** AtE2Fc is regulated by ubiquitin-mediated degradation in dividing cells and in response to light
Name of the conference: The Ubiquitin-Proteasome System
Type of participation: 'Participatory - poster
City of event: Work shop Juan March, Madrid,
del Pozo, J.C.

30 **Title of the work:** Auxin Response and the ubiquitin pathway
Name of the conference: Arabidopsis Meeting
Type of participation: 'Participatory - poster
City of event: Madison, USA,
Del Pozo, Gray,; Ward, A.; Hellman, H.; and Estelle, M.

31 **Title of the work:** CARACTERIZACIÓN FUNCIONAL DEL COMPLEJO SCFSKP2B
Name of the conference: VIII Reunión Nacional de Biología Molecular de Plantas
Type of participation: 'Participatory - poster
City of event: Pamplona,
Concepción Manzano, Zamira; Abraham, Silvia Jurado,; Juan Carlos Del Pozo.

32 **Title of the work:** CARACTERIZACIÓN FUNCIONAL DEL COMPLEJO SCFSKP2B
Name of the conference: VIII Reunión Nacional de Biología Molecular de Plantas
Type of participation: 'Participatory - poster
City of event: Pamplona,
Concepción Manzano, Zamira; Abraham, Silvia Jurado,; Juan Carlos Del Pozo.

33 **Title of the work:** Caracterización molecular de la respuesta a la deficiencia de fosfato en el medio en Arabidopsis.
Name of the conference: II congreso Nacional de Biología molecular de plantas
Type of participation: Participatory - oral communication
City of event: Sevilla, España,
del Pozo, J.; Iglesias, J.; Allona I.; Leyva, A.; Aragoncillo, C.; de la Peña, A.; and Paz-Ares, J.

34 **Title of the work:** Cell division and Auxin signaling: AtE2F2 may be a connection
Name of the conference: Cross-talk between cell cycle and plant development
Type of participation: Participatory - oral communication
City of event: Fundación Juan March, Madrid,
Del Pozo, J.; Gutierrez, C.

35 **Title of the work:** Ciclo Celular y Desarrollo:Regulación a través de la Ruta de la Ubiquitina
Name of the conference: Sociedad Española de Genética
Type of participation: Participatory - oral communication
City of event: El Escorial, Madrid,
del Pozo, J.C.

36 **Title of the work:** Does AtE2F-I function in cell division and/or cell differentiation?
Name of the conference: Arabidopsis Meeting
Type of participation: 'Participatory - poster
City of event: Madison, USA,
Carlos del Pozo, Corinne; Fr; ndt, Elena Ramirez-; Parra, Crisanto Gutierrez.

37 **Title of the work:** Function and regulation of the cell cycle AtE2Fc/DPb factor
Name of the conference: Auxin Meeting
Type of participation: 'Participatory - poster
City of event: Creta, Grecia,
del Pozo, J.; Diaz-triviño, Boniotti,; And Gutierrez, C.

38 **Title of the work:** PAPEL DEL COMPLEJO UBIQUITIN-LIGASA SCFSKP2A EN PROLIFERACIÓN CELULAR
Name of the conference: VIII Reunión Nacional de Biología Molecular de Plantas
Type of participation: 'Participatory - poster
City of event: Pamplona,
Silvia Jurado, Zamira; Abraham, Concepción Manzano,; Sara Díaz-Triviño ,; Crisanto Gutiérrez , Carlos; Del Pozo.

39 **Title of the work:** PAPEL DEL COMPLEJO UBIQUITIN-LIGASA SCFSKP2A EN PROLIFERACIÓN CELULAR
Name of the conference: VIII Reunión Nacional de Biología Molecular de Plantas
Type of participation: 'Participatory - poster
City of event: Pamplona,
Silvia Jurado, Zamira; Abraham, Concepción Manzano,; Sara Díaz-Triviño ,; Crisanto Gutiérrez , Carlos; Del Pozo.

40 **Title of the work:** RUB1 Patwhway and Auxin Response
Name of the conference: Arabidopsis Meeting
Type of participation: 'Participatory - poster
City of event: Madison, USA,
Del Pozo, C.; Tipmte, S.; Tan, J.; Callis and Estelle, M.

41 **Title of the work:** Regulación de la proliferación celular en plantas. la ruta de la ubiquitina y las auxinas
Name of the conference: Congreso Nacional de la SEBBM
Type of participation: Participatory - oral communication
City of event: León, España,
del POzo, J.C.

42 **Title of the work:** Role of the ubiquitin E3 ligase SCFAtSKP2 in cell proliferation
Name of the conference: 16th Internacional Conference on Arabidopsis Research
Type of participation: 'Participatory - poster
City of event: Madison, USA,
Jurado S.; Diaz-triviño, and; Gutierrez, C.; and del Pozo, J.

43 **Title of the work:** SCF-SKP2A complex regulates cell division
Name of the conference: 18th International Conference on Arabidopsis Research
Type of participation: Participatory - oral communication
City of event: Pekin, China,
Juan Carlos Del Pozo,; Silvia Jurado, Zamira; Abraham, Concepción Manzano.

44 **Title of the work:** SKP2A FORMA PARTE DE UN COMPLEJO SCF ACTIVO
Name of the conference: VIII Reunión Nacional de Biología Molecular de Plantas
Type of participation: 'Participatory - poster
City of event: Pamplona,
Zamira M.; Abraham, Silvia Jurado,; Concepción Manzano, Juan; del Pozo.

45 **Title of the work:** SKP2A FORMA PARTE DE UN COMPLEJO SCF ACTIVO
Name of the conference: VIII Reunión Nacional de Biología Molecular de Plantas
Type of participation: 'Participatory - poster
City of event: Pamplona,
Zamira M.; Abraham, Silvia Jurado,; Concepción Manzano, Juan; del Pozo.

46 **Title of the work:** Ubiquitin and RUB1 pathways in the auxin response
Name of the conference: Novel Approaches to study Plant Growth Factors
Type of participation: Participatory - oral communication
City of event: Workshop Fundación Juan March. Madrid,
Del Pozo, J.C.

R&D management and participation in scientific committees

Organization of R&D activities

1 **Title of the activity:** Forntiers in Plant Biology
Type of activity: workshop **Geographical area:** European Union
Convening entity: Universidad Politécnica de Madrid
City convening entity: Madrid, Community of Madrid, Spain
Start-End date: 28/05/2018 - 01/06/2018

2 **Title of the activity:** Forntiers in Plant Biology
Type of activity: workshop **Geographical area:** European Union
City convening entity: Madrid, Community of Madrid, Spain
Start-End date: 04/06/2016 - 07/06/2016

3 **Title of the activity:** XI Reunión de Biología Molecular de Plantas
Type of activity: Congreso **Geographical area:** Others
Start date: 14/06/2012

R&D management

Name of the activity: panel experto de contratos "Juan de la Cierva"
Type of management: Others

Other achievements

Stays in public or private R&D centres

1 **Entity:** California University at San Diego **Type of entity:** University
Faculty, institute or centre: Biology
City of entity: San Diego, United States of America
Start-End date: 01/07/2017 - 31/10/2017 **Duration:** 3 months
Goals of the stay: Guest
Provable tasks: Sabatical stay (Fulbright) to carry out Moelcular analyses of BiAux, a novel metabolite

2 **Entity:** University of Texas
City of entity: Austin, Texas, Spain
Start-End date: 01/06/1999 - 31/12/1999
Goals of the stay: Post-doctoral
Provable tasks: Cell cycle control by the ubiquitin pathway

3 **Entity:** Indina University
City of entity: Bloomington, IN, Spain
Start date: 12/11/1996
Goals of the stay: Post-doctoral
Provable tasks: Auxin response in Arabidopsis. Análisis Molecular y Bioquímico del gen AXR1

Summary of other achievements

1 **Description of the achievement:** Evaluador de la ANEP y USDA, agencia Francesa, Holandesa y Alemana de evaluacion cientifica.
Conferral date: 2018

2 **Description of the achievement:** Garante del proyecto Severo Ochoa otorgado al CBGP - 2017
Accrediting entity: Ministerio de Economía y Competitividad
Conferral date: 01/06/2017

3 **Description of the achievement:** Supervisor del equipo de proteomica PF2D adquirido como infraestructura del INIA (Dpto. de Biotecnología
Conferral date: 2007

4 **Description of the achievement:** Curso de Adaptacion al Profesorado (Universidad Complutense de Madrid).
Accrediting entity: Universidad Complutense Universidad **Type of entity:** University

Conferral date: 1993

5 **Description of the achievement:** - Premio extraordinario de licenciatura 1991-92 al mejor expediente académico de la promoción.
Accrediting entity: Universidad Complutense de Madrid **Type of entity:** University
Conferral date: 12/09/1991

6 **Description of the achievement:** Tesina: Obtencion de marcadores moleculares en el genero Secale mediante PCR. Aplicaciones genealógicas. Dept. de Genética (Biologia) de la UCM
Accrediting entity: universidad Complesense de Madrid **Type of entity:** University
Conferral date: 1991

7 **Description of the achievement:** Evaluador de los programas Juan de la Cierva y Ramóm y Cajal

8 **Description of the achievement:** Subdirector del Centro de Biotecnología y Genomica de Pantas CBGP (2017-2020)
Accrediting entity: INIA-UPM **Type of entity:** University
City accrediting entity: Madrid, Spain