

Fecha del CVA	10/12/2020
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Parte A. DATOS PERSONALES

Nombre y Apellidos	Daniel Gómez Cabello		
DNI	45657600R	Edad	41
Núm. identificación del investigador	Researcher ID		
	Scopus Author ID	27667631200	
	* Código ORCID	0000-0002-2807-8438	

* Obligatorio

A.1. Situación profesional actual

Organismo	Universidad de Sevilla-AECC		
Dpto. / Centro			
Dirección	Las Leandras, 2, 1ªA, 41006, Sevilla		
Teléfono	(+34) 627911286	Correo electrónico	danielgomezcab@gmail.com
Categoría profesional	Researcher	Fecha inicio	2020
Palabras clave	Mecanismos moleculares de enfermedad; Animales de laboratorio; Cultivo celular; Cultivo de virus; Bioinformática; Genética; Ingeniería genética		

A.2. Formación académica (título, institución, fecha)

Licenciatura/Grado/Doctorado	Universidad	Año
Specialization Graphical Designer	Universidad de Sevilla	2016
Programa Oficial de Doctorado en Bioquímica, Biología Molecular y Biomedicina (RD 778/1998)(Mención de Calidad MCD 2003-00204)	Universidad Autónoma de Madrid	2009
Genetic and microbiology technology	Universidad de Sevilla	2007
Biology	Universidad de Sevilla	2004

A.3. Indicadores generales de calidad de la producción científica

I do not apply for sexennial of researcher yet, and I will do it in the next 2021 call. I'm supervising a PhD student (Denmark-2021) and I supervised **2 Master students, 2 Erasmus + students and 2 technicians**. I published **6 first-author** and **1 co-corresponding author** articles (of 11 articles plus 1 pre-print article). My h-index is 8, and my papers accumulate 217 citations and 47 co-authors that show my collaboration abilities and professional maturity. I have awarded with **I3P-CSIC, Marie Curie Individual Fellowship (2017)** and **AECC-Investigador2020**. Besides, I got **2 international grants as Principal Investigator**.

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

Currently, I awarded with the highly competitive grant, AECC-Investigador, which support my salary to start my own laboratory as an independent Principal Investigator at Instituto de Biomedicina de Sevilla (IBiS). I also associated to Department of Genetic of the University of Seville, which stabilises my future position as a lecture and guarantee the continuity of my research group. During my career, I have developed a scientific trajectory with **independent thinking** and leadership capabilities. Overall, my aims are focused on developing **new tools and strategies** to understand better and improve treatment and therapies of human diseases like cancer and rare genetic human disorders.

Briefly, my research career started with my Biology degree, where I was honoured with Research introduction fellow at the University of Sevilla. Then, I awarded with an I3P-PhD fellow by CSIC to carry out my doctoral thesis. During my PhD formation, I performed a short fellowship at Saint Louis University (USA), and I defended my PhD in 2009. The thesis findings were published on two high index factor articles (Cancer Research and Aging Cell), as well as an Editorial article on Aging journal. Then, I carried on my research formation

in translational projects in breast cancer as a postdoctoral under the supervision of Dr R. Colomer at MD Anderson International Spain and MD Anderson Cancer Center (Houston, USA) strengthening collaboration by a short-term fellowship at Dr FJ. Esteva laboratory in 2010 where I am co-author of 2 articles published on Breast Cancer Research and Annals of the New York Academy of Sciences journals. Therefore, I was as Associated Researcher in Breast Cancer Unit at Spanish National Cancer Research Center (CNIO). Next, I worked in Dr P. Huertas laboratory funded by ERC Starting Grant Project, where I published PLOS One article as first author (JCR 3,7), Nucleic Acid Research (JCR 9,2) and DNA repair (JCR 4,5) journals. These results were scaffold for a Nat. Comm. publication (JCR 11,4) sharing first co-authors. Therefore, I developed my **independent** project appointed to Dr P. Huertas laboratory generating findings published in 2017 as the first and co-corresponding author (Stem Cell Rep) and I **supervised** a Master student.

Previously, I awarded with **Marie Curie Individual Fellowship** (2017). I was **Principal Investigator** of 2 related projects with own financing (360000 €) into Genome Integrity Unit (Copenhagen, Denmark) to study new compounds and strategies directed toward DNA double-strand break repair in cancer cell therapies. I supervised a PhD student, a Master student, 2 Erasmus+ and a technician during the last 4 years. The results of these project are partially submitted to publish (under review in Nat. Cell. Biol.) and also are the scaffold for my current research lines in my lab in Seville.

Furthermore, I have developed a Q&A website called **www.PreguntaAUnCientifico.es**, I founded a spin-off company called **IlluSciences**, and I also organised a **Scientific Communication and Dissemination Symposium** in Madrid and online (2019 and 2020).

In summary, I published 6 first-author and 1 co-corresponding author articles (of 11 articles). My h-index is 8, and my papers accumulate 217 citations and 47 co-authors that show my collaboration abilities and professional maturity. In 2020, we have one additional article under revision in Nat. Cell. Biology and other in preparation which I will be first and co-senior author.

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones

AC: Autor de correspondencia; (nº x / nº y): posición firma solicitante / total autores

- 1 Artículo científico.** Gómez-Cabello, D (AC); Pappas, G; Aguilar-Morante, D; Dinant, C; Bartek, J. (1/6). 2020. CtIP-dependent nascent RNA expression flanking DNA breaks guides the choice of DNA repair pathway Nature Cell Biology (under review and co-corresponding author).
- 2 Artículo científico.** Lopez-Saavedra A; Gomez-Cabello D; Domínguez-Sánchez MS; et al; Huertas P. (1/8). 2016. A genome-wide screening uncovers the role of CCAR2 as an antagonist of DNA end resection Nature Communications (co-author). Nature group. 7-12364. ISSN 2041-1723.
- 3 Artículo científico.** Jimeno S; Fernández-Ávila MJ; Cruz-García A; Cepeda-García C; Gómez-Cabello D; Huertas P. (5/7). 2015. Neddylation inhibits CtIP-mediated resection and regulates DNA double strand break repair pathway choice Nucleic Acids Research. oxford editorial. 43-2, pp.987-999. ISSN 1362-4962.
- 4 Artículo científico.** Checa-Rodríguez, C; Cepeda-García, C; Javier Ramon; Lopez-Saavedra, A; Balestra, F; Dominguez-Sánchez, M; Gomez-Cabello, D; Hueras, P. 2020. Methylation of the central transcriptional regulator KLF4 by PRMT5 is required for DNA end resection and recombination DNA Repair Journal. Elsevier. 94, pp.102902.
- 5 Artículo científico.** Mejias-Navarro, F; Gomez-Cabello, D; Huertas, P. 2018. RAD51 paralogs regulate double strand break repair pathway choice by limiting Ku complex retention bioRxiv. Cold Spring Harbour. <https://doi.org/10.1>.
- 6 Artículo científico.** Gomez-Cabello D (AC); Checa-Rodríguez C; Abad M; Serrano M; Huertas P. (1/5). 2017. CtIP-Specific Roles during Cell Reprogramming Have Long-Term Consequences in the Survival and Fitness of Induced Pluripotent Stem Cells Stem Cell Reports. Cell Press. 8-2, pp.432-445. ISSN 2213-6711.

- 7 **Artículo científico.** Gómez Cabello, D.; Adrados, I.; Gamarra, D.; Kobayashi, H.; Takatsu, Y.; Takatsu, K.; Gil, J.; Palmero, I.(1/8). 2013. DGCR8-mediated disruption of miRNA biogenesis induces cellular senescence in primary fibroblasts. *Aging cell.* 12-5, pp.923-954. ISSN 1474-9726.
- 8 **Artículo científico.** Gómez Cabello, D.; Adrados, I.; Palmero, I.(1/3). 2013. microRNA biogenesis and senescence. *Aging.* 5-10, pp.721-723. ISSN 1945-4589.
- 9 **Artículo científico.** Gomez Cabello, D.; Jimeno, S.; Fernández Ávila, MJ.; Huertas, P.(1/4). 2013. New tools to study DNA double-strand break repair pathway choice. *PloS one.* 8-10, pp.e77206. ISSN 1932-6203.
- 10 **Artículo científico.** Oliveras, G.; Blancafort, A.; Urruticoechea, A.; et al; Puig, T.2010. Novel anti-fatty acid synthase compounds with anti-cancer activity in HER2+ breast cancer. *Annals of the New York Academy of Sciences.* 1210, pp.86-178. ISSN 1749-6632.
- 11 **Artículo científico.** Gómez Cabello, D.; Callejas, S.; Benguría, A.; Moreno, A.; Alonso, J.; Palmero, I.2010. Regulation of the microRNA processor DGCR8 by the tumor suppressor ING1. *Cancer research.* 70-5, pp.1866-1940. ISSN 1538-7445.
- 12 **Artículo científico.** Jin, Q.; Yuan, LX.; Boulbes, D.; et al; Esteva, FJ.2010. Fatty acid synthase phosphorylation: a novel therapeutic target in HER2-overexpressing breast cancer cells. *Breast cancer research : BCR.* 12-6, pp.R96. ISSN 1465-542X.
- 13 **Revision.** Menéndez, C.; Abad, M.; Gómez Cabello, D.; Moreno, A.; Palmero, I.2009. ING proteins in cellular senescence. *Current drug targets.* 10-5, pp.406-423. ISSN 1873-5592.

C.2. Proyectos

- 1 795930, Ribosomal DNA stress Marie Curie Actions. Marie Curie Actions. Daniel Gomez Cabello. (Danish Cancer Society Research Center). 01/01/2019-31/12/2020. 232.000 €. Investigador principal.
- 2 R25220171567, Novel insights into DNA damage and stress responses in the nucleolus: Mechanisms and relevance for genomic (in)stability and disease (COMPETITIVO) Lundbeck Foundation Grants. Daniel Gómez Cabello. (Danish Cancer Research Center). 01/01/2018-31/12/2020. 282.114 €. Investigador principal.
- 3 R252-2017-584, Novel insights into DNA damage and stress responses in the nucleolus: Mechanisms and relevance for genomic (in)stability and disease (COMPETITIVO)T Lundbeck Foundation Running cost Grants. Daniel Gómez Cabello. (Danish Cancer Research Center). 01/01/2018-31/12/2018. 60.453 €. Investigador principal.
- 4 P12-BIO-515, Relación del Daño en Fase S y los Defectos de Segregación en Mitosis en los Síndromes Recesivos con Microcefalia Proyectos de Excelencia de la Junta de Andalucía. Proyectos de Excelencia de la Junta de Andalucía. Pablo Huertas Sanchez. (Centro Andaluz de Biología Molecular y Medicina Regenerativa). 30/01/2014-29/01/2017. 150.000 €.
- 5 DSBRECA-278867, Relevance of double strans break repair pathway choice in human disease and cancer Europea Research Council. ERC Starting GRant FP7-IDEAS-ERC. Pablo Huertas Sanchez. (Centro Andaluz de Biología Molecular y Medicina Regenerativa). 01/01/2012-31/12/2016. 1.400.000 €.
- 6 SAF2013-43255-P, Regulación del Procesamiento de los Cortes de Doble Cadena en el ADN y su Implicación en el Desarrollo Tumoral Ministerio de Ciencia e Innovación. Investigación. Plan Estatal 2013-2016 Excelencia - Proyectos I+D. Pablo Huertas Sanchez. (Centro Andaluz de Biología Molecular y Medicina Regenerativa). 01/01/2014-31/12/2015.
- 7 Desarrollo preclínico de derivados de la epigallocatequina en modelos celulares y animales de cancer de mama Ramon Colomer Bosch. (Universidad Complutense Madrid, Instituto Catalán de Oncología (idibell e idibgi), MD Anderson Interntaional España). 01/01/2009-01/01/2011.
- 8 Preclinical development of epigallocatechin derivatives in cell and animal models in breast cancer Ramon Colomer Bosch. (Universidad Complutense Madrid, Instituto Catalán de Oncología (idibell e idibgi), MD Anderson Interntaional España). 01/01/2008-31/12/2010.
- 9 Role of p33ing1 and arf proteins in tumoral suppression Ignacio Palmero Rodríguez. (Instituto de Investigaciones Biomédicas Alberto Sols). 01/01/2006-31/12/2009.

10 Role of p33ing1 protein in cellular mechanism of antitumoral protection. Ignacio Palmero Rodríguez. (IIBm). 01/01/2005-31/12/2008.

C.3. Contracts.

C.4. Patents

C.5. Research awards.

1. 2020. AECC-Investigador
2. 2017. Marie Curie Individual Fellowship.
3. 2016. Certificado Excelencia Comisión Europea.
4. 2010. RTICCs Postdoctoral Short-term Fellowship. MD Anderson Cancer Center, Houston, USA.
5. 2008. I3P-CSIC. Predoctoral short-term fellowship St. Louis University, USA.
6. 2006. I3P-CSIC. Predoctoral Fellowship. Inst. Biomedical Research Alberto Sols.
7. 2004. Research Introduction Fellowship. University of Seville

C.6 Teaching Experience.

1. 2019. Erasmus+ Practices: 2 students. Danish Cancer Society Research Center.
2. 2019. TFM Supervisor. Cintia Fonseca Rodríguez. Master in Genomic & Genetic. Universidad de Santiago de Compostela y Vigo.
3. 2019. Laboratory Practices Supervisor. Master in Genomic & Genetic. University of Santiago de Compostela y Vigo.
4. 2019. Teaching Conference. Master in Genomic & Genetic. University of Santiago de Compostela y Vigo.
5. 2014. Co-dirección de TFM. Master in Molecular Genetic and Biotechnology (US). Cintia Checa-Rodríguez. Regulation of DSB repair pathway by HDAC1, HDAC2 and PARP3.
6. 2012. Visiting teacher. University of Sevilla. Master in Biomedicine. University of Sevilla, España.
7. 2014. Profesor Ayudante Doctor Certificate. ANECA.

C.7 Other merits.

1. Scientific Communications: Pint of Science 2019-Sevilla; Interviews: Canal Sur, Radio Exterior (RTVE), RNE; Scientific Communication and Dissemination Symposium (2019-Universidad Autónoma of Madrid-FECYT); Web of Q&A platform: PreguntaAUnCientífico.es
Articles: EIMundo, El Diario de Sevilla, Universidad de Sevilla, La Gazzete-UAM.
2. Spin-off Illuscience: Scientific Illustrations designer.
4. Comisión Atracción y Retención de Talento- RAICEX
5. Delegate by Society of Spanish Researchers in Denmark (CED).
7. Specialized Certificate of Management of Health Services (30 ECTS). Univ. of Sevilla.