

Date of the CVA

20/05/2019

Section A. PERSONAL DATA

Name and Surname	Lourdes Lopez Onieva		
DNI/NIE/Passport		Age	39
Researcher's identification number	Researcher ID	L55852014	
	Scopus Author ID		
	ORCID		

A.1. Current professional situation

Institution	Universidad de Granada		
Dpt. / Centre	Bioquímica y Biología Molecular I / Facultad de Ciencias		
Address			
Phone	Email	lourdeslopez@ugr.es	
Professional category	Investigadora Plan Propio UGR - Programa Incorporación de Jóvenes Doctores	Start date	2018
UNESCO spec. code			
Keywords			

A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year
DIPLOMA EN PROTECCION Y EXPERIMENTACION ANIMAL PARA EXPERIMENTADORES EN CIENCIAS BIOMEDICAS	Universidad de Granada	2015
PERSONAL LICENCE TO CARRY OUT REGULATED PROCEDURES ON LIVING ANIMALS	HOME OFFICE ADMINISTRATION, UK	2008
Programa Oficial de Postgrado en Biotecnología (RD 56/2005)	Universidad Pablo de Olavide	2008
CERTIFICADO-DIPLOMA DE ESTUDIOS AVANZADOS DE TERCER CICLO	Universidad Pablo de Olavide	2006
B.S. in Biochemistry	Universidad de Granada	2003

A.3. General quality indicators of scientific production

Total citations: 367

Last five years citations: 357

h-index: 6

i10-index : 5

Nr. of total publications: 12

Nr. of book chapters: 1

Nr. of publications in D1: 2

Nr. of publications in Q1: 8

Nr. of publications in Q3: 1

Nr of First author publications: 8

Nr of First author and corresponding author: 3

Nr. of Master's Thesis: 3

Section B. SUMMARY OF THE CURRICULUM

Since I started my PhD I have been interested in understanding different aspects of stem cell biology and disease. In 2004 I joined Dr. González-Reyes's lab at the Andalusian Center for Developmental Biology (CABD-CSIC, Seville) to carry out my PhD project about the mechanisms by which niche cells regulate germline stem cell maintenance in the Drosophila ovary. My PhD was published in three prestigious journals (two of them as a first author) and one book chapter where I am also first author. After receiving my PhD in 2008 I was awarded a Marie Curie postdoctoral fellowship to join the Dr Bonnet's lab at the prestigious London Research Institute (Cancer Research UK) in London. Two years later I was also awarded a Cancer Research UK fellowship. During this postdoctoral period I identified a novel role for the Hypoxia Inducible Factor-2a in protecting hematopoietic stem cells and leukemic cells from apoptosis. In the period comprised between 2011 and 2014 I had two children and therefore I was on maternity leave for a total of 22 months. Although being out of work for almost two years has been a handicap for my scientific productivity, I managed to finish and publish my main postdoctoral studies in very prestigious journals such as Cell Stem Cell and Blood.

In 2015 I was awarded further Marie Curie funds to join Dr Real's lab at the Centre for Genomics and Oncological Research (GENyO) in Granada. Since then, my research interest has been focused on the study of human hematopoietic disorders and the development of gene-cellular therapy tools to correct these disorders. For this purpose, in 2016 I was awarded a project funded by Fundación Mehuer where I was the principal investigator. Since I started this work I have published five articles, three of them where I am first and corresponding author. After a short break working for the medical department of Hematology at The Janssen Pharmaceutical Company of Johnson & Johnson, I have been recently awarded a research grant (Plan Propio - UGR program) to join the department of Biochemistry and Molecular Biology at the University of Granada. To continue with my research line on hematopoietic disorders, I am currently associated with the Gene Regulation, Stem Cells & Development laboratory at GENyO. The aim of the Plan Propio UGR research program is to allow young researchers, who brilliantly completed their post-doctoral stage, to establish their own research line. Therefore, at the moment I am applying for different national and international agencies to obtain funding to support my own research line to study human haematological diseases from both, mechanistic and therapeutic point of views using in vivo and in vitro models and patient samples with haematological disorders.

Section C. MOST RELEVANT MERITS (ordered by typology)

C.1. Publications

- 1 **Scientific paper.** Navarro-Montero O; et al. 2017. RUNX1c regulates hematopoietic differentiation of human pluripotent stem cells possibly in cooperation with pro-inflammatory signaling. *Stem Cells*. 35-11, pp.2253-2266.
- 2 **Scientific paper.** Lopez-Onieva L; et al. 2016. Generation of induced pluripotent stem cells (iPSCs) from a Bernard-Soulier Syndrome patient carrying a W71R mutation in the GPIX gene. *Stem Cell Research*. 16-3, pp.692-695.
- 3 **Scientific paper.** Lopez-Onieva L; et al. 2016. Generation of a human induced pluripotent stem cell (iPSC) line from a Bernard-Soulier syndrome patient with the mutation p. Asn45Ser in the GPIX gene. *Stem cell research*. 17-3, pp.603-606.
- 4 **Scientific paper.** Gonzalez-Porrás, F; et al. 2016. Generation of human pluripotent stem cell lines with suppressed expression of the Notch ligand DLL4 using short hairpin RNAs. *Stem Cell Research*. Elsevier. 16-3, pp.735-739.
- 5 **Scientific paper.** Lopez-Onieva, L; et al. 2016. Induced pluripotent stem cells derived from Bernard-Soulier Syndrome patient's peripheral blood cells with a p.Phe55Ser mutation in the GPIX gene. *Stem Cell Research*.
- 6 **Scientific paper.** Lopez-Onieva, L* (co-first author); et al. 2013. HIF-2a is essential to protect human hematopoietic stem and progenitor cells from endoplasmic reticulum stress-induced apoptosis. *Cell Stem Cell*. 13-5, pp.549-563.
- 7 **Scientific paper.** Lassailly, F; et al. 2013. Multimodal imaging reveals structural and functional heterogeneity in different bone marrow compartments: functional implications on hematopoietic stem cells. *Blood*. 122-10, pp.1730-1740.

- 8 **Scientific paper.** Pearson, J; et al. 2009. Recent avances in Drosophila stem cell biology International journal of developmental biology. 53-8-10, pp.1329-1339.
- 9 **Scientific paper.** Lopez-Onieva, L; Fernandez-Minan, A; Gonzalez-Reyes, A. 2008. Jak/Stat signalling in the niche support cells regulates dpp transcription to control germline stem cell maintenance in Drosophila ovary Development. 135-3, pp.533-540.
- 10 **Scientific paper.** Lopez-Onieva L; Fernandez-Minan A; Gonzalez-Reyes A. 2007. Jak/Stat signalling regulates dpp transcription to control germline stem cell maintenance in the Drosophila ovary. J Stem Cells Regen Med. eCollection. 16-2(1):5.
- 11 **Scientific paper.** Lopez-Onieva, L* (co-first author); et al. 2006. Genetic dissection of a stem cell niche: the case of the Drosophila ovary Developmental Dynamics. 235, pp.2969-2979.
- 12 **Scientific paper.** Lopez-Onieva L; et al. Regulation of urokinase-type plasminogen activator pathway by HIF-1a 1 is essential for acute myeloid leukemia. In preparation.
- 13 **Book chapter.** Lopez-Onieva, L; et al. 2011. Stem cell niches in animal development and adulthood Topics in Animal and Plant Development: From Cell Differentiation to Morphogenesis. Transworld Research Network. pp.135-161.

C.2. Participation in R&D and Innovation projects

- 1 VI Convocatoria de Ayudas de Investigación sobre Medicamentos Huérfanos y Enfermedades Raras, Fundación Mehuer/ Fundación Caja Sol. Lourdes López Onieva. (FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD). 2016-2017.
- 2 Generation of human experimental models of Bernard-Soulier Syndrome and Glanzmann Disease using cellular reprogramming Marie Curie Actions, European Commission. Lourdes Lopez-Onieva. (FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD). 2015-2017.
- 3 Generation of human experimental models of Bernard-Soulier syndrome using cellular reprogramming Fundacion todos somos raros todos somos unicos. Pedro Jose Real Luna. (FUNDACION PUBLICA ANDALUZA PROGRESO Y SALUD). 2015-2017.
- 4 Open Researchers European Union. García López, A. I. (Universidad de Granada). 2016-2016. Team member.
- 5 Hypoxia inducible factors in hematopoiesis and leukemia Cancer Research UK. Dominique Bonnet. (London Research Institute, Cancer Research UK). 2012-2013.
- 6 The role of hypoxia-inducible factors in human haematopoietic stem cell biology and leukaemogenesis (FP7-PEOPLE-IEF-2009) Marie Curie Actions, European Commission. Lourdes Lopez-Onieva. (London Research Institute, Cancer Research UK). 2009-2012.
- 7 From genes to shape: Análisis de la morfogénesis en Drosophila y vertebrados Spanish Ministry of Education and Science-Programa Consolider. Acaimo Alfonso Gonzalez Reyes. (Consejo Superior de Investigaciones Científicas). 2007-2012.
- 8 Targeting Cancer Stem Cell for Therapy European commission - Sixth Framework Programme. Dominique Bonnet. (London Research Institute, Cancer Research UK). 2008-2010.
- 9 Ayuda de la Junta de Andalucía a Grupos de Investigación Junta de Andalucía. Acaimo Alfonso Gonzalez Reyes. (Consejo Superior de Investigaciones Científicas). 2004-2010.
- 10 Development and preclinical testing of cord blood-derived cell European Commission - Thercaud. Dominique Bonnet. (London Research Institute, Cancer Research UK). 2006-2009.
- 11 Análisis Genético y Molecular de la reparación de DNA y del establecimiento de células madre en la oogenesis de Drosophila Ministerio de Ciencia y Tecnología. Dirección General de Investigación. PN-PGC (area de Biología Molecular y Celular).. Acaimo Alfonso González Reyes. (Consejo Superior de Investigaciones Científicas). 2003-2006.

C.3. Participation in R&D and Innovation contracts

C.4. Patents