

**Part A. PERSONAL INFORMATION**

**CV date**

12/10/2019

First and Family name	María del Mar Malagón Poyato		
Social Security, Passport, ID number		Age	
Researcher codes	WoS Researcher ID (*)	L-5386-2014	
	SCOPUS Author ID(*)	7004884306	
	Open Researcher and Contributor ID (ORCID) **	0000-0002-2419-2727	

(\*) At least one of these is mandatory

(\*\*) Mandatory

**A.1. Current position**

Name of University/Institution	Instituto Maimónides de Investigación Biomédica de Córdoba (IMIBIC)/University of Córdoba/ Reina Sofia University Hospital		
Department	Grupo Adipobiología-GC-11; Dept. Biología Celular, Fisiología e Inmunología		
Address and Country			
Phone number	+	E-mail	
Current position	Full Professor	From	26/06/2008
Key words	Adipose Tissue, Adipobiology, Cell signaling and Traffic, Extracellular Matrix, Proteomics, Insulin resistance		

**A.2. Education**

PhD	University	Year
PhD in Biological Sciences	University of Córdoba (Spain)	10/1985
Biology Degree	University of Córdoba (Spain)	02/1990

**A.3. JCR articles, h Index, thesis supervised...**

- "Sexenios": 5 (01-01-2017)
  - Thesis directed (from 01/2009): 8 (6 ongoing)
  - Total publications: 155
  - Total publications last 5 years: 28
  - Total citations: 3860
  - Total citations in the last 5 years: 2090
  - Average citations/year during the last 5 years: 418
  - Total publications in Q1: 104 (26 in D1)
  - H Index: 36
- Source: WoS

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

Prof. María M. Malagón leads the IMIBIC research group "Metabolism and Adipocyte Differentiation". Prof. Malagón coordinates IMIBIC's Research Programme of Nutrition, Endocrine and Metabolic Diseases, and in 2016-2018, she was the Director of the Biomedicine Ph.D. Programme of UCO and the Training Committee of IMIBIC. She has been recently appointed as Scientific Vicedirector of the IMIBIC. With 155 scientific publications in total and over 77 since 2010, Prof Malagón has considerable experience in the field of adipose tissue biology and pathophysiology. She belongs to the National Network on Pathophysiology of Obesity and Nutrition (CIBERObn). She has been awarded 8 national grants (Plan Nacional, Retos-Colaboración (Empresa), 2 Collaborative France-Spain grants (Ministry of Science and Education, Spain), as well as 2 Excellence grants (Consejería de



Economía, Innovación, Ciencia y Empleo) and 1 research grant of the Consejería de Salud y Bienestar Social (Junta de Andalucía, Spain). Prof Malagón has supervised 18 Ph.D. Thesis and numerous Master and Degree Projects. She was Chair of the Integrative Biology and Physiology (BFI) review Committee de la Subdirección General de Proyectos de Investigación del Ministerio de Economía y Competitividad (2010-2014), and Member of the National Agency of Evaluation (ANEP, "Physiology and Pharmacology"), Spanish Ministry of Science, 2004-2009). She is member of numerous evaluation panels (Miguel Servet, Ramón y Cajal, Sara Borrell, and Juan de la Cierva programs, L'Oreal Grants), most recently as auditor for Biomedical Research Institutes for the National Institute of Health (ISCIII; from 2018) and Reserch Groups of the Spanish National Research Council (CSIC, 2018). She is member of the Technical Committe of Evaluation and Accreditation of the Andalusian Agency of Knowledge (DEVA; 2014-present) and the Castilla and Leon Agency of Knowledge (ACSUCyL, 2017-present). She has been Council Member of the Fundation of the Spanish Society of Endocrinology and Nutrition (SEEN) (2011-2017), Chair of the Spanish Society for the Study of Obesity (SEEDO; 2014-2017), and Treasurer and Member of the Scientific Council of the Spanish Society of Cell Biology (2001-2011). She is coordinator of the Working group on Translational Research of the SEEDO and Vice-president of the SEEDO Foundation. On international level, she evaluates projects for ANR and AERES (France), NSF (USA), Research Grant Council of Hong Kong, Agencia Nacional de Promoción Científica y Tecnológica" (FONCyT, Argentina), and has participated in the Review Board of "Personalized Health and Related Technologies (PHRT)" (Research Institutions in Switzerland). Prof Malagón serves as associated editor for Frontiers in Neuroendocrine Sciences, and have served as editor for Endocrinology, Journal of Neuroendocrinology, General and Comparative Endocrinology and Journal of Integrated Omics. Council Member of the International Federation of Comparative Endocrinology Societies (2011-2005) and the Societé de Neuroendocrinologie (France) (2006-2009) and Member of the Scientific Advisory Board of the International Regulatory Peptide Society (2008-present). She has been a member of the organizing committee for international and national meetings (e.g. European Congress of Endocrinology and SEEDO). In 2018, she was awarded the SEEN Prize for a profesional Career.

## **Part C. RELEVANT MERITS**

### **C.1. Publications (including books)**

- Martinez et al. (31/39). Hypothalamic AMPK-ER Stress-JNK1 Axis Mediates the Central Actions of Thyroid Hormones on Energy Balance. Cell Metab. 26 - 1, pp. 212 - 229. 2017. IF: 20.565; 1/142 en Endocrinology&Metabolism (D1).
- Moreno-Castellanos et al. 2017 (8/8). The cytoskeletal protein septin 11 is associated with human obesity and is involved in adipocyte lipid storage and metabolism. Diabetologia. 60:324-335. IF: 6.080; 15/138 en Endocrinology&Metabolism (Q1).

- El Bekay et al. (15/16 and co-corresponding author). Effects of GLP-1 on the differentiation and metabolism of human adipocytes. *Br J Pharmacol*. 2016 173(11):1820-34. IF: 4.842; Ranking: 24/255 en Pharmacology&Pharmacy (D1).
- Diaz-Ruiz et al. 2015 (15/15). Proteasome Dysfunction Associated to Oxidative Stress and Proteotoxicity in Adipocytes Compromises Insulin Sensitivity in Human Obesity. *Antioxid Redox Signal*. 23:597-612. IF: 7.407; 10/128 en Endocrinology&Metabolism (D1).
- Guzmán-Ruiz et al. 2014. (15/15). Alarmin high-mobility group B1 (HMGB1) is regulated in human adipocytes in insulin resistance and influences insulin secretion in  $\beta$ -cells. *Int J Obes (Lond)*. 38:1545-1554. IF: 5.386; 19/122 en Endocrinology&Metabolism, 6/78 en Nutrition&Dietetics. (Q1/D1).
- Kulkarni et al. 2014 (9/10). Use of a fibrin-based system for enhancing angiogenesis and modulating inflammation in the treatment of hyperglycemic wounds. *Biomaterials* 35:2001-2010. IF: 8.312; 1/1 en Material Sciences&Biomaterials (D1).
- Tinahones FJ et al. 2013 (8/9). Caspase induction and BCL2 inhibition in human adipose tissue: a potential relationship with insulin signaling alteration. *Diabetes Care*. 36:513-21. IF: 8.570; 5/123 en Endocrinology&Metabolism (D1).
- Almagro et al. 2013 (6/6). Adiponectin receptors form homomers and heteromers exhibiting distinct ligand binding and intracellular signaling properties. *J. Biol. Chem*. 288:3112-3125. IF: 4.651; 62/290 en Biochemistry&Molecular Biology (Q1).
- Pulido et al. 2011 (10/10). Rab18 dynamics in adipocytes in relation to lipogenesis, lipolysis and obesity. *PLoS One*. 6(7):e22931. IF: 4.092; 12/85 en Biology (Q1).
- Peinado et al. 2011 (9/9). Proteomic profiling of adipose tissue from Zmpste24<sup>-/-</sup> mice, a model of lipodystrophy and premature aging, reveals major changes in mitochondrial function and vimentin processing. *Mol Cell Proteomics*. 10(11):M111.008094. IF: 7.398; 5/72 en Biochemical Research Methods (D1).

## **C.2. Research projects and grants**

- 1- BFU2016-76711-R, Caracterización de componentes extracelulares e intracelulares que definen la expansión del tejido adiposo Convocatoria 2016 de proyectos de I+D+i, RETOS DE LA SOCIEDAD, MINECO. (IMIBIC/Universidad de Córdoba). 01/01/2017- 30/09/2020. Principal Investigator.
- 2 PI-0159-2016, Identificación de Biomarcadores y Factores Predictores de Respuesta A Cirugía Bariátrica en Pacientes Obesos Mórbidos. Aplicación de Técnicas Proteómicas Avanzadas Al Estudio del Tejido Adiposo. Proyectos de Investigación en Salud 2016. Consejería de Salud, Junta de Andalucía. (IMIBIC/Universidad de Córdoba). 01/01/2017- 31/12/2019. Team Member.
- 3.- BFU2017-90578-REDT, Red Temática de Investigación sobre plasticidad adiposa y su impacto fisiopatológico ACCIONES DE DINAMIZACIÓN "REDES DE EXCELENCIA". CONVOCATORIA 2015. Principal Investigator: F Villarroya. (IMIBIC/Universidad de Córdoba). 01/01/2017- 31/12/2019. Principal Investigator of the Nodo Córdoba.
- 4.- Next-generation RNA sequencing and single-cell RNAseq: Novel opportunities for understanding human adipose tissue pathophysiology and obesity Acciones Cooperativas Intramurales CIBEROBN. F Villarroya. (CIBER FISIOPATOLOGIA DE LA OBESIDAD Y NUTRICION (CIBEROBN)). 01/10/2017-31/12/2018. Team Member.

5.- BFU2015-70454-REDT, Red Temática de Investigación sobre plasticidad adiposa y su impacto fisiopatológico ACCIONES DE DINAMIZACIÓN "REDES DE EXCELENCIA". CONVOCATORIA 2015. Principal Investigator: F Villarroya. (IMIBIC/Universidad de Córdoba). 01/01/2016- 31/12/2017. Principal Investigator of the Nodo Córdoba.

6.- PIE14/00005, Early predictors and causes of loss of phenotypic flexibility as individual risk factor of metabolic disease: towards a personalized medicine (FLEXI-MET) Integrated Projects of Excellence Call. 2014. Principal Investigator: José López Miranda (IMIBIC/Universidad de Córdoba). 01/01/2015- 31/12/2017. Leader of WP4.

7.- BFU-2013-44229-R, Caracterización de nuevas rutas reguladoras del metabolismo lipídico en adipocitos. Alteraciones en obesidad. Convocatoria de Retos 2014. MINECO. (IMIBIC/Universidad de Córdoba). 01/01/2014- 30/06/2017. Principal Investigator.

8.- PI-0200-2013, Identificación de biomarcadores de disfunción del tejido adiposo en condiciones de resistencia a insulina Proyectos de Investigación. Consejería de Salud. Junta de Andalucía. (IMIBIC/Universidad de Córdoba). 01/01/2014- 31/12/2016. Principal Investigator.

9.- P10-CTS-6606, Aproximaciones proteómicas de alto rendimiento para la identificación de marcadores de obesidad del tejido adiposo. Alteraciones del fosfoproteoma del adipocito derivadas de la resistencia insulina. Junta de Andalucía. Proyecto de Excelencia. Convocatoria de Proyectos de Excelencia. Consejería de Innovación, Ciencia y Empleo. Junta de Andalucía. (Universidad de Córdoba). 01/04/2011- 31/12/2014. Principal Investigator.

10.- BFU2010-17116, Caracterización de nuevos marcadores reguladores del funcionamiento del tejido adiposo Ministerio de Economía y Competitividad. Proyectos de I+D+i. MINECO. (Universidad de Córdoba). 01/01/2010-31/08/2014. Principal Investigator.

### **C.3. Contracts**

- RTC-2016-4589-1, Integración de plataformas para la identificación de dianas terapéuticas y el desarrollo de nuevos productos para la prevención y/o tratamiento de la radiodermatitis Convocatoria Retos-Colaboración del año 2016, MINECO. (SRTC1600C004589XV). (IMIBIC/Universidad de Córdoba). 01/01/2017- 31/12/2018. Principal Investigator.

### **C.4. Patents**

Justo P. Castaño Fuentes; María del Mar Malagón Poyato; Francisco Gracia Navarro; Socorro García Navarro; Rafael Vázquez Martínez; Antonio J Martínez Fuentes; Mario Durán Prado. PCT/ES07/000627. Truncated Isoforms of Somatostatin Receptor-5 in Pituitary Tumors 17/04/2010. Universidad de Córdoba.

### **C.5, C.6, C.7... (e. g., Institutional responsibilities, memberships of scientific societies...)**