

Fecha del CVA	09/10/2019
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## Parte A. DATOS PERSONALES

Nombre y Apellidos	M <sup>a</sup> Jesús Alonso Gordo		
DNI	13102160A	Edad	56
Núm. identificación del investigador	Researcher ID		
	Scopus Author ID	7401659495	
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### A.1. Situación profesional actual

Organismo	Universidad Rey Juan Carlos		
Dpto. / Centro	Universidad Rey Juan Carlos / Facultad de Ciencias de la Salud Universidad Rey Juan Carlos		
Dirección	Avda. de El Ferrol 35, 2º 2, 28029, Madrid		
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Categoría profesional	Catedrático de Universidad	Fecha inicio	2012
Espec. cód. UNESCO	320704 - Patología cardiovascular		
Palabras clave			

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

Licenciatura/Grado/Doctorado	Universidad	Año

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

H: 28

Promedio de citas por elemento: 22,66

Total veces citado (sin citas propias): 1798

Artículos en que se cita (sin citas propias): 1428

## Parte B. RESUMEN LIBRE DEL CURRÍCULUM

I am Bachelor in Pharmacy from the Complutense University of Madrid and I have my PhD degree from the same University in 1991. My professional career is summarized in the following sections: A) **98 articles** published in JCR journals (64 in the first quartile, of which 17 are from the first decile and I am author of correspondence of 12 of them). B) **Competitive contracts / scholarships**: Sandoz Training Grant in Pharmacology and Toxicology in the Biopharmaceutical Department of Sandoz Pharma (1992-1993); Contract of Reincorporation of the "Actions for the incorporation of Doctors and Technologists to research groups in Spain" (10 / 1993-11 / 1996); Scholarship to the initiative of Young Doctors, Community of Madrid (11 / 1996-10 / 1997); Extension of the Reincorporation Contract of the Subprogram "Actions for the incorporation of Doctors and Technologists to research groups in Spain" (11 / 1997-07 / 1998; 01 / 1999-03 / 2000); Research Grant of the Universidad Autónoma de Madrid, UAM. C) **Teaching positions** held: Associate Prof. (1989-1992, 2000, Dept. of Pharmacology, Faculty of Medicine, UAM); Prof. Interim Head (2000-2002, Dept. of Pharmacology, Faculty of Medicine, UAM, 2002-2003, Dept. of Health Sciences, Faculty of Health Sciences, URJC); Prof. Contratado Doctor (2003-2009, Dept. of Health Sciences, Faculty of Health Sciences, URJC); 2009-2012: Professor of the University, area of Physiology, Department of Biochemistry, Physiology and Molecular Genetics, Faculty of Health Sciences, URJC); D) **Direction of 8 Doctoral Thesis, 3 Diplomas of Advanced Studies, 1 Thesis of Degree and 1 End of Master's Project.** E) **4 Stays in foreign laboratories**: Pharmacokinetic Laboratory of the Biopharmaceutical Department at Sandoz Pharma, Basel (06 / 1992-11 / 1993); Federal University of Spirito Santo (Vitoria Brazil) (07/2008 and 09-10 / 2012); Federal University of Pampa- Campus of Uruguaiiana (Uruguaiiana Brazil) (07/2013). F) **Principal investigator** of 10 Projects (of which 4 are of international character), **collaborator** in another 29 (one of which is an European COST action) and member of the Cardiovascular Network-CiberCV from ISCIII. G) **Reviewer** of numerous JCR journals. H) **Reviewer** of several national evaluation agencies

(ANEP, ACSUCYL, UNIBASQ) as well as of the Fund for Scientific and Technological Research (FONCYT) of the Ministry of Science, Technology and Productive Innovation of Argentina in 2015.

## Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

### C.1. Publicaciones

- 1 **Artículo científico.** Caroline S Martínez; et al. 2019. Egg White Hydrolysate: a new putative agent to prevent vascular dysfunction in rats following long-term exposure to aluminum Food and Chemical Toxicology. 133, pp.110799..
- 2 **Artículo científico.** Roberto Palacios; et al. 2019. Pioglitazone modulates the vascular contractility in hypertension by interference with ET-1 pathway Scientific Reports. Nature Springer.
- 3 **Artículo científico.** Danize Rizzetti; et al. 2018. Mercury-induced vascular dysfunction is mediated by Angiotensin II AT-1 receptor upregulation Environmental Research. 162, pp.287-296.
- 4 **Artículo científico.** M<sup>a</sup> Soledad Avendaño; et al. 2018. Microsomal Prostaglandin E synthase-1 mediates vascular dysfunction in hypertension through oxidative stress Hypertension. 72-2, pp.492-502.
- 5 **Artículo científico.** Caroline S Martínez; et al. (12/9). 2017. Aluminum exposure at human dietary levels promotes vascular dysfunction and increases blood pressure in rats: a concert action of NAD(P)H oxidase and COX-2 Toxicology. 390, pp.10-21.
- 6 **Artículo científico.** Danize Rizzetti; et al. (12/11). 2017. The cessation of the chronic exposure to low doses of mercury ameliorates the increase in the systolic blood pressure and the vascular damage in rats Environmental Research. 155, pp.182-192.
- 7 **Artículo científico.** DA Rizzetti; et al. 2017. Mercury-induced vascular dysfunction is mediated by Angiotensin II AT-1 receptor upregulation Environmental Research. 162, pp.287-296.
- 8 **Artículo científico.** Patrícia Schmidt; et al. (10/8). 2016. Aluminum exposure for one hour decreases vascular reactivity in conductance and resistance arteries in rats Toxicology and Applied Pharmacology. 313, pp.109-116. ISSN 0041-008X.
- 9 **Artículo científico.** JA Victorio; et al. (8/4). 2016. Spironolactone Prevents Endothelial Nitric Oxide Synthase Uncoupling and Vascular Dysfunction Induced by beta-Adrenergic Overstimulation: Role of Perivascular Adipose Tissue Hypertension. 68/3, pp.726-735. ISSN 0194-911X.
- 10 **Artículo científico.** Andrea Aguado; et al. (11/8). 2016. HuR is required for NOX-1 but not NOX-4 regulation by inflammatory stimuli in vascular smooth muscle cells Journal of Hypertension. 34/2. ISSN 0263-6352.
- 11 **Artículo científico.** Giulia A Wiggers; et al. (8/8). 2016. Cerebrovascular endothelial dysfunction induced by mercury exposure at low concentrations NeuroToxicology. ISSN 0161-813X.
- 12 **Artículo científico.** Marisol Avendaño; et al. (15/12). 2016. Role of COX-2-derived PGE2 on vascular stiffness and function in hypertension British Journal of Pharmacology. ISSN 0007-1188.
- 13 **Artículo científico.** Raquel Hernanz Martín; et al. (12/12). 2015. Toll-like receptor 4 contributes to vascular remodelling and endothelial dysfunction in angiotensin II-induced hypertension British Journal of Pharmacology. 172/12, pp.3159-3176. ISSN 0007-1188.
- 14 **Artículo científico.** Andrea Aguado; et al. (11/8). 2015. HuR mediates the synergistic effects of angiotensin II and interleukin 1beta on vascular COX-2 expression and cell migration British Journal of Pharmacology. 172/12. ISSN 0007-1188.
- 15 **Artículo científico.** Maylla Simoes; et al. (11/9). 2015. MAPK pathway activation by chronic lead-exposure increases vascular reactivity through oxidative stress/cyclooxygenase-2-dependent pathways Toxicology and Applied Pharmacology. 283. ISSN 0041-008X.

- 16 **Artículo científico.** Ana B García-Redondo; et al. (7/6). 2015. c-Src, ERK1/2 and Rho Kinase mediate hydrogen peroxide induced vascular contraction in hypertension. Role of TXA<sub>2</sub>, NAD(P)H Oxidase and mitochondria Journal of Hypertension. 33/1. ISSN 0263-6352.
- 17 **Artículo científico.** Priscila Rossi de Batista; et al. (11/11). 2014. Toll-like receptor 4 increases vascular reactivity through angiotensin II and reactive oxygen species in Spontaneously Hypertensive rats PLoS ONE. 9 (8). ISSN 1932-6203.
- 18 **Artículo científico.** José Vicente Pérez Girón; et al. (9/9). 2014. Pioglitazone reduces angiotensin II-induced COX-2 expression through the inhibition of ROS production and ET-1 transcription in vascular cells from SHR rats American Journal of Physiology - Heart and Circulatory Physiology. 306/11, pp.1582-1593. ISSN 0363-6135.
- 19 **Artículo científico.** Caroline Martínez; et al. (8/7). 2014. 60-Day chronic exposure to low concentrations of HgCl<sub>2</sub> impairs sperm quality: hormonal imbalance and oxidative stress as potential routes for reproductive dysfunction in rats PLoS ONE. 9/11. ISSN 1932-6203.
- 20 **Artículo científico.** Raquel Hernanz Martín; et al. (4/4). 2014. New roles for old pathways?: a circuitous relationship between reactive oxygen species and cyclooxygenase in hypertension Clinical Science. 126. ISSN 0143-5221.
- 21 **Artículo científico.** Ana M<sup>a</sup> Briones; et al. (4/3). 2014. Small artery remodeling in obesity and insulin resistance Current Vascular Pharmacology. ISSN 1570-1611.
- 22 **Artículo científico.** D Rizzeti; et al. (11/7). 2013. Apocynin Prevents Vascular Effects Caused by Chronic Exposure to Low Concentrations of Mercury PLoS ONE. 2/8. ISSN 1932-6203.
- 23 **Artículo científico.** Sonia Martínez-Revelles; et al. (12/10). 2013. Reciprocal relationship between reactive oxygen species and cyclooxygenase-2 and vascular dysfunction in hypertension Antioxidants and Redox Signaling. 1/18, pp.51-65. ISSN 1523-0864.
- 24 **Artículo científico.** Raquel Hernanz Martín; et al. (8/8). 2012. Pioglitazone treatment increases COX-2 derived PGI(2) production and reduces oxidative stress in hypertensive rats. Role on vascular function. British Journal of Pharmacology. 66 (4). ISSN 0007-1188.
- 25 **Artículo científico.** Ángela Martín Cortés; et al. (9/9). 2012. PPAR $\gamma$  activation reduces COX-2 expression in vascular smooth muscle cells from hypertensive rats by interfering with oxidative stress. Journal of Hypertension. 30 (2)/30, pp.315-326. ISSN 0263-6352.
- 26 **Artículo científico.** Jonaina Fiorim; et al. (9/7). 2012. Activation of K<sup>+</sup> channels and Na<sup>+</sup>/K<sup>+</sup> ATPase prevents aortic endothelial dysfunction in 7-day lead-treated rats Toxicology and Applied Pharmacology. 262/1. ISSN 0041-008X.
- 27 **Artículo científico.** Bruna Azevedo; et al. (14/12). 2012. Toxic effects of mercury on the cardiovascular and central nervous systems Journal of Biomedicine and Biotechnology. ISSN 1110-7243.
- 28 **Artículo científico.** María Galán; et al. (8/6). 2011. Angiotensin II differentially affects Interleukin-1 $\beta$  induced cyclooxygenase-2, microsomal prostaglandin E<sub>2</sub> synthase-1 and prostacyclin synthases expression in adventitial fibroblasts Journal of Hypertension. 3/29. ISSN 0263-6352.
- 29 **Artículo científico.** Lorena B Furieri; et al. (11/9). 2011. Endothelial dysfunction of rat coronary arteries after exposition to low concentration of mercury is ROS dependent British Journal of Pharmacology. 8/162, pp.1819-1831. ISSN 0007-1188.
- 30 **Artículo científico.** Frank M Peçanha; et al. (9/8). 2010. The role of COX-2 derived prostanoids on vasoconstrictor responses to phenylephrine is increased by exposure to low mercury concentration Journal of Physiology and Pharmacology. 1/61. ISSN 0867-5910.
- 31 **Artículo científico.** Ana M Briones; et al. (7/4). 2009. Activation of BKCa channels by NO prevents coronary artery endothelial dysfunction in ouabain-induced hypertensive rats Journal of Hypertension. 27. ISSN 0263-6352.
- 32 **Artículo científico.** Ana Maria Briones Alonso; et al. (9/6). 2009. Atorvastatin prevents Angiotensin II-induced vascular remodelling and oxidative stress. Hypertension. ISSN 0194-911X.
- 33 **Artículo científico.** Ana Belén García-Redondo; et al. (6/4). 2009. Hypertension increases contractile responses to hydrogen peroxide in resistance arteries through increased TXA<sub>2</sub>, Ca<sup>2+</sup> and O<sub>2</sub><sup>-</sup> levels Journal of Pharmacology and Experimental Therapeutics. 328. ISSN 0022-3565.

- 34 Artículo científico.** Ana Belen Garcia Redondo; et al. (6/5). 2009. Losartan and tempol treatments normalize the increased response to hydrogen peroxide in resistance arteries from hypertensive rats *Journal of Hypertension*. ISSN 0263-6352.
- 35 Artículo científico.** Amada E Beltrán; et al. (9/7). 2009. p38 MAPK contributes to Angiotensin II induced COX-2 expression in aortic fibroblasts from normotensive and hypertensive rats *Journal of Hypertension*. 27. ISSN 0263-6352.

## C.2. Proyectos

- 1 RAEFEC Red de Adherencia al Ejercicio Físico en Pacientes con Enfermedades Crónicas Miguel Fernandez Del Olmo. (Redes de Investigación en Ciencias del Deporte 2019 del Consejo Superior de Deportes). 01/10/2019-31/12/2019. 7.500 €.
- 2 SAF2015-69294-R, Modulación por Nrf2 del daño vascular asociado a la patología hipertensiva. Relación con TLR4 María Jesús Alonso Gordo. (Universidad Rey Juan Carlos Q2803011B). 01/01/2016-31/12/2019.
- 3 European Union. COST action BM1301, ADMIRE - Aldosterone and mineralocorticoid receptor: Pathophysiology, clinical implication and therapeutic innovation. Ana M<sup>a</sup> Briones. 21/11/2013-20/11/2017.
- 4 Role of mPGES-1 in aldosterone production from adipose tissue in obesity and its impact in the vascular damage Roche Farma. Ana M<sup>a</sup> Briones Alonso. (Universidad Autónoma de Madrid). 2016-2017. 25.000 €.
- 5 PHBP14/00001, Efecto de la exposición a los metales tóxicos plomo y cadmio sobre el sistema cardiovascular en modelos animales María Jesús Alonso Gordo. 01/01/2015-31/12/2016.
- 6 RD12/0042/0024. INSTITUTO DE SALUD CARLOS III. FISS., Cardiovascular Network. Red Recava. Instituto de Salud Carlos III. Mercedes Salices. (Universidad Rey Juan Carlos Q2803011B). 01/01/2013-31/12/2016. 50.600 €.
- 7 SAF2012-36400, Hipertensión y regulación recíproca de especies reactivas de oxígeno y prostanoides a nivel vascular. Papel de la vía angiotensina II/TLR4 en la producción de ambos mediadores. Ministerio de Economía y Competitividad. Mercedes Salices. 01/01/2013-31/12/2015. 125.000 €.
- 8 PRIN13\_CS12, Participación de TLR4 en el desarrollo de hipertensión y las alteraciones vasculares asociadas Universidad Rey Juan Carlos. Ángela Martín Cortés. 07/11/2013-06/11/2014. 3.000 €.
- 9 PHB2011-0001, Concesión de ayudas para la cooperación interuniversitaria con Brasil MINISTERIO DE EDUCACION, CULTURA Y DEPORTE. María Jesús Alonso Gordo. 01/01/2012-31/12/2013. 9.600 €.
- 10 PHB2011-0001-PC, Efectos de la exposición a metales pesados sobre la función y estructura vascular. Programa hispano-brasileño de cooperación interuniversitaria. MINISTERIO DE EDUCACION, CULTURA Y DEPORTE. María Jesús Alonso Gordo. 01/01/2012-31/12/2013. 9.600 €.
- 11 Efecto del entrenamiento físico aeróbico sobre el remodelado vascular y cardiaco de animales hipertensos Mercedes Salices. 01/01/2012-31/12/2012.
- 12 Participación de TLR4 y RAS en las alteraciones vasculares en hipertensión Comunidad de Madrid - Universidad Rey Juan Carlos. Raquel Hernanz Martín. (Universidad Rey Juan Carlos Q2803011B). 01/01/2011-31/12/2011. 21.988,75 €.
- 13 SAF2009-07201, Ciclooxygenasa-2, Prostaglandin E sintasa-1 microsomal y alteraciones vasculares asociadas a la Hipertensión. Laboratorios Almirall. Premio al mejor Proyecto de Investigación 2009. Mercedes Salices Sanchez. 01/01/2010-31/12/2010.

## C.3. Contratos

## C.4. Patentes