MINISTERIO DE CIENCIA E INNOVACIÓN

AGENCIA ESTATAL DE INVESTIGACIÓN

Cofinanciado por la Unión Europea

CURRICULUM VITAE (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

CV date	13/12/2021

Part A. PERSONAL INFORMATION

First name	ALINO		
Family name	MARTINEZ MARCOS		
Gender (*)	Male	Birth date (dd/mm/yyyy)	[redacted]
Social Security, Passport, ID number	[redacted]		
e-mail	Alino.Martinez@uclm.es	URL Web	
Open Researcher and Contributor ID (ORCID) (*)		0000-0003-3691-3605	

(*) Mandatory

A.1. Current position

Position	FULL PROFESSOR			
Initial date	2016			
Institution	UCLM			
Department/Center	HEALTH SCIENCES	CIUDAD REAL MEDICAL SCHOOL		
Country	SPAIN		Teleph. number	690333132
Key words	NEURODEGENERATIVE DISEASE, NEUROANATOMY			

A.2. Previous positions (research activity interuptions, art. 14.2.b))

Period	Position/Institution/Country/Interruption cause
2003 - 2016	Associate Professor/ Universidad de Castilla-La Mancha
2000 - 2003	Assistant Professor/ Universidad de Castilla-La Mancha
1997 - 2000	Posdoctoral Associate and Research Assistant Professor / State University of New York
1993 - 1997	Predoctoral student/Universitat de València

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Doctor in Science	Universitat de València	1998
Bachelor in Science	Universitat de València	1993

Part B. CV SUMMARY *(max. 5000 characters, including spaces)*

Graduate (1993) and Doctor (1998) in Biological Sciences by the University of Valencia. Doctoral Thesis on the neuroanatomy of the visual and limbic systems -three publications derived-, and twelve publications in that period. Postdoctoral training in the United States (1997-2000) at the Downstate Medical Center of the State University of New York, achieving the status of Research Assistant Professor. His postdoctoral research on the neurobiology of chemosensory systems resulted in fifteen publications. Assistant (2000) and Associate Professor (2003) of Human Anatomy and Embryology at the Albacete Medical School, University of Castilla-La Mancha. In that reincorporation period, he worked on the neuroanatomy of the limbic system in primates and humans and published eighteen articles. In 2010, he moved with his group (Neuroplasticity and Neurodegeneration) to the new Ciudad Real Medical School. His current research focuses on neuroanatomical changes underlying Alzheimer's and Parkinson's diseases in human brain. Specifically, the characterization of the vulnerability of different neuronal and glial subpopulations in areas of the limbic system by proteinopathies such as tau, beta-amyloid and alpha-synuclein. Its approach includes the characterization of where and when these proteinopathies begin within the nervous system, what effects they produce on neurons and which are more vulnerable in order to help characterize the etiology of these diseases, their progression and their early diagnosis. Experimental approaches include on tissue and liquid proteomic analysis of the human brain, which constitutes a step forward at the international level of the state-of the art of -omic technologies and the identification of biomarkers. During the last ten years, a total of 34 articles were published. Cumulative impact index of more than 160 points and average impact greater than 4.7. Articles cited more than 2300 times with an index h of 29. Principal investigator in 5 national (>530.000 €), 7 regional (>580.000 €) and 7 scientifictechnical infrastructure (>2.100.000 €) projects (Total >3.300.000 €). Supervisor of 5 Doctoral Thesis (with three or more publications derived in each of them). Reviewer for more than 30 international journals. Grant reviewer of regional, national and international agencies (Agence Nationale Reserche Francaise, Swiss National Science Foundation, Ministry of Science, Technology and Productive Innovation of Argentina, Parkinson's United Kingdom, Israel Science Foundation, National Science Center Poland, National Science Foundation USA). Young researcher Luisa Sigea de Velasco Prize awarded by the Board of Communities of Castilla-La Mancha (2005). In his teaching activity, currently Full Professor of Human Anatomy & Embryology, four five-year periods of teaching activity, as well as participation in five teaching innovation projects. Administratively, Academic Secretary (20102013), Vice-Dean (2013-2017), Dean (2017-2020) and Vicerrector (2020-).

Part C. RELEVANT MERITS *(sorted by typology)*

C.1. Publications *(see instructions) Selected from the last ten years*

Ubeda-Bañón I, Saiz-Sanchez D, de la Rosa-Prieto C, **Martínez-Marcos A** (2012) αsynuclein in the olfactory system of a mouse model of Parkinson's Disease: correlation with olfactory projections. **Brain, Structure and Function**, 217: 447-458 ***(IF: 7.837; D1, 1/21, Anatomy & Morphology, JCR 2012)**

Ubeda-Bañón I, Saiz-Sanchez D, de la Rosa-Prieto C, **Martínez-Marcos A** (2014) α Synuclein in the olfactory system in Parkinson’s disease: role of neural connections on

spreading pathology. **Brain, Structure and Function**, 219:1513-1526 **(IF: 5.618; D1, 2/20, Anatomy & Morphology, JCR 2014)**

Saiz-Sanchez D, de la Rosa-Prieto C, Ubeda-Bañón I, **Martínez-Marcos A**.(2015) Interneurons, tau and beta-amyloid in the piriform cortex in Alzheimer's disease. **Brain, Structure and Function**, 220:2011–2025 (2015) ***(IF: 5.811; D1, 1/21, Anatomy & Morphology, JCR 2015)**

Flores-Cuadrado A, Ubeda-Bañón I, Saiz-Sanchez D, de la Rosa-Prieto C, **Martínez-Marcos A**. (2016) Hippocampal α-synuclein and interneurons in Parkinson's Disease: data from human and mouse model. **Movement Disorders,** 31:979-988, **(IF: 7.072; D1, 13/194, Clinical Neurology, JCR 2016)**

Flores-Cuadrado A, Saiz-Sanchez D, **Martínez-Marcos A,** Ubeda-Bañón I. (2019) Neurodegeneration and contralateral α-synuclein induction after intracerebral α-synuclein injections in the anterior olfactory nucleus of a Parkinson's disease A53T mouse model.**Acta Neuropathologica Communications,** 7(1):56. **(IF: 6.27; Q1, 28/271, Neuroscience, JCR 2019)**

Pedrero-Prieto CM; Flores-Cuadrado A; Saiz-Sánchez D; Úbeda-Bañón I; Frontiñán-Rubio J; Alcaín FJ; Mateos-Hernández L; de la Fuente J; Durán-Prado M; Villar M; **Martínez-Marcos A**; Peinado JR. (2019) Human β-amyloid enriched extracts: evaluation of in vitro and in vivo internalization and molecular characterization.**Alzheimer's Research and Therapy,** 11(1):56, **(IF: 6.116; D1, 19/204, Clinical Neurology, JCR 2019)**

Ubeda-Bañón I, Saiz-Sanchez D, Flores-Cuadrado A, Rioja-Corroto E, Gonzalez-Rodriguez M, Vïllar-Conde S, Astillero-Lopez V, Cabello-de la Rosa JP, Gallardo-Alcañiz MJ, Vaamonde-Gamo J, Relea-Calatayud F, Gonzalez-Lopez L, Mohedano-Moriano A, Rabano A, **Martínez-Marcos A.** (2020)The human olfactory system in two proteinopathies: Alzheimer's and Parkinson's diseases. **Translational Neurodegeneration,** 9:22, **(IF: 8.014; D1, 26/273, Neuroscience, JCR 2020)**

Flores-Cuadrado A, Saiz-Sanchez D, Mohedano-Moriano A, Lamas-Cenjor E, León-Olmo V, **Martínez-Marcos A,** Ubeda-Bañón I**.** (2021) Astrogliosis and sexually dimorphic neurodegeneration and microgliosis in the olfactory bulb in Parkinson's disease.**npj Parkinson's Disease,** 7(1):11, **(IF: 8.651; D1, 20/273, Neuroscience, JCR 2020)**

Villar-Conde S, Astillero-Lopez V, Gonzalez-Rodriguez M, Villanueva-Anguita P, SaizSanchez D, **Martinez-Marcos A**, Flores-Cuadrado A, Ubeda-Bañón I**.** (2021) The human hippocampus in Parkinson's disease: an integrative stereological and proteomic study. **Journal of Parkinson's Disease,** 11: 1345–1365, **(IF: 5.568; Q1, 62/273, Neuroscience, JCR 2020)**

Gonzalez-Rodriguez M, Astillero-Lopez V, Villanueva-Anguita P, Paya-Rodriguez ME, Flores-Cuadrado A, Villar-Conde S, Ubeda-Bañón I, **Martinez-Marcos A**, Saiz-Sanchez D. (2021) Somatostatin and Astroglial Involvement in the Human Limbic System in Alzheimer's Disease. **Int. Journal of Molecular Sciences,** 22:8434, **(IF: 5.923; Q1, 67/297, Biochemistry & Molecular Biology, JCR 2020)**

Gonzalez-Rodriguez M, Villar-Conde S, Astillero-Lopez V, Villanueva-Anguita P, UbedaBañón I, Flores-Cuadrado A, **Martinez-Marcos A**, Saiz-Sanchez D. (2022)Stereological and proteomic analyses link chaperone HSP90AB1 and BAG3 to neurodegeneration and astrogliosis in the human CA1 hippocampal subfield in Alzheimer's disease. **Int. Journal of Molecular Sciences,** in press **(IF: 5.923; Q1, 67/297, Biochemistry & Molecular Biology,**

JCR 2020)

Astillero-Lopez V, Gonzalez-Rodriguez M, Villar-Conde S, Flores-Cuadrado A, **MartinezMarcos A**, Ubeda-Bañón I, Saiz-Sanchez D. (2022): Neurodegeneration and astrogliosis in the entorhinal cortex in Alzheimer's disease:stereological layer-specific assessment and proteomic analysis. **Alzheimer & Dementia,** in press **(IF: 21.566; D1, 3/208, Clinical Neurology, JCR 2020)**

C.2. Congress

C.3. Research projects (during the last ten years as PI)

National

Neurogénesis Adulta: cambios hodológicos y alteraciones en modelos de las enfermedades de Alzheimer y Parkinson . Código: BFU2010-15729 (96.800,00 €) Ministerio de Ciencia e Innovación. 2011-2013 PI: **A. Martínez Marcos**

Enfermedades de Alzheimer y Parkinson desde una perspectiva prionoide: papel de las conexiones neuronales en humanos y modelos transgénicos. Código: SAF201452300-R (96.800,00 €) Ministerio de Economía y Competitividad. 2015-2016. PI: **A. Martínez Marcos** y Dra. I. Úbeda Bañón**.**

Enfermedades de Alzheimer y Parkinson: degeneración neuronal y glial por proteinopatías prionoides en el sistema límbico humano y de modelos transgénicos y celulares Código: SAF2016-75768-R (108.900,00 €). Ministerio de Economía y Competitividad. 2017-2019. PI: **A. Martínez Marcos.**

Análisis proteómico de las proteinopatías asociadas a las enfermedades de Alzheimer y Parkinson en el sistema límbico humano y en modelos in vivo e in vitro. Código: PID2019-108659RB-I00 (108.900,00 €). Ministerio de Ciencia e Innovación. 2020-2022. PI: **A. Martínez Marcos**

Regional

Alteraciones en los sistemas quimiosensoriales en las enfermedades de Alzheimer y Parkinson Código: Nº PEIC-2014-006-P (104.720,00 €). Consejería de Educación y Ciencia, Junta de Comunidades de Castilla-La Mancha. 2014-2016. PI: **A. Martínez Marcos**

Papel de la glía en la propagación de las proteinopatías asociadas a las enfermedades de Alzheimer y Parkinson: análisis estereológico y proteómico Código: Nº SBPLY/17/180501/000430 (230.743,00 €). Consejería de Educación y Ciencia, Junta de Comunidades de Castilla-La Mancha. 2018-2021. PI: **A. Martínez Marcos y Dr. D. Saiz Sánchez**

Scientific-Technologic infrastructures

Equipamiento de la Unidad de Citómica de la Facultad de Medicina de Ciudad Real Código: UNCM13-1E-1881 (365.731,30 €). Ministerio de Economía y Competitividad. 20132015. PI: **A. Martínez Marcos**

Equipamiento de la Unidad de Técnicas Analíticas de la Facultad de Medicina de Ciudad Real Código: UNCM13-1E-1882 (237.554,38 €) Ministerio de Economía y Competitividad 2013-2015 PI: **A. Martínez Marcos**

Equipamiento de la Unidad de Comportamiento Animal de la Facultad de Medicina de
Ciudad Real Código: UNCM13-1E-1883 (101.600,09 €). Ministerio de Economía y Competitividad. 2013-2015 PI: **A. Martínez Marcos**

Equipamiento de la Unidad de Imagen Microscópica de la Facultad de Medicina de Ciudad Real Código: UNCM15-CE-3152 (293.046,71 €). Ministerio de Economía y Competitividad 2016-2017. PI: **A. Martínez Marcos**

Equipamiento de la Unidad Analítica de la Facultad de Medicina de Ciudad Real Código: UNCM15-CE-3610 (282.172,18 €) Ministerio de Economía y Competitividad 20162017. PI **A. Martínez Marcos**

Equipamiento del Animalario de la Facultad de Medicina de Ciudad Real Código: UNCM15-CE-3612 (148.781,40 €) Ministerio de Economía y Competitividad 2016-2017 PI **A. Martínez Marcos**

Mejora y actualización de la Unidad Científico-Técnica de Apoyo la Investigación de la Facultad de Medicina de Ciudad Real Código: EQC2018-004960-P (756.565,20 €) Ministerio de Ciencia, Innovación y Universidades 2018-2019 PI **A. Martínez Marcos C.4.**

Contracts, technological or transfer merits