

CV Date

26/11/2024

Part A. PERSONAL INFORMATION

First Name	Mónica		
Family Name	Yunta González		
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CURRICULUM NARRATIVE SUMMARY

I started my PhD studies at Instituto de Salud Carlos III in 1997. My research was focused in the signal transduction pathways initiated at the membrane surface Tetraspanin antigen CD53, implicated in proliferation, differentiation and cancer progression and prognosis. The thesis yield several manuscripts where we described that CD53 is implicated in JNK activation, and apoptosis protection. We also described that rat mesangial cells express CD53 and regulates DNA synthesis. I defended my thesis in June 2002 in the Complutense University of Madrid.

Next I moved to the University of Pennsylvania for a postdoctoral period. My research was focused in understanding the role of Prolactin Receptor in breast cancer. In this period I studied the physical and functional interactions of SIRP α 1, a member of the Signal Inhibitory Regulatory Proteins family, and TGF- β Receptors with the Prolactin Receptor and the implications of these interactions in signaling and cellular biology in human mammary cells. After two years I joined the Dermatology Department, at the University of Pennsylvania, where my research was focused in signaling pathways implicated in pubertal mammary gland development. We employed animal models that express signaling molecules relevant in epithelial development and stem cell proliferation, as beta catenin, DKK1 and DICER. Employing the DKK1 inducible transgenic mice we described that wnt1 is essential for mammary gland development during puberty, and that DKK1 expression abrogates mammary epithelial cell proliferation. Employing DICER inducible KO mice we demonstrated that microRNAs are essential for hair follicle development and maintenance.

In June 2007 I was incorporated to the Neuroprotection Group at the National Hospital for Paraplegics. During this period I got two grants as a PI, funded by MAPFRE foundation and Foundation for sanitary research in Castilla-La Mancha (FISCAM), focused in the study of the relevance of microRNA in spinal cord injury. Employing microRNA microarray technology, we described the microRNA expression pattern after spinal cord injury and, employing meta-analysis and bioinformatics tools, we were able to relate these changes with the gene expression pattern and the molecular processes implicated in spinal cord injury. We also focused in the study of apoptosis and described the interaction between FAF and XIAP. In November 2013 I was incorporated to the Mitochondrial Pathology group at the Instituto de Salud Carlos III. My research was focused in the study of the metabolic implications in ALS (Amyotrophic Lateral Sclerosis), specifically the role of glucose concentration in survival, mitochondrial activity and autophagy.

In February 2017 I joined the Alfonso X El Sabio University, where I was Professor at the Biology Department, and a researcher at the Regenerative Biology and New Therapies Doctoral Program, where I focused my research in the study of the modulators of the Ras signaling pathway in metabolism and neurodegeneration.

Nowdays I am a Biochemistry professor at the Faculty of Medicine of the Complutense University of Madrid. My research is focused on the implication of GPCRs in Parkinson Disease.

The mayor achievements in my career are the description of relevant physiological functions that implicate CD53 in cancer biology and specifically in leukemia diagnosis, the description for the first time that microRNAs are essential for the development of the hair follicle and the establishment of a pattern of microRNA expression for the spinal cord injury, that reflects

changes in molecular pathways intimately related to the patho-physiology of the spinal cord injury.

1. RESEARCH, KNOWLEDGE TRANSFER AND EXCHANGE ACTIVITIES

1.1. PROJECTS AND CONTRACTS FOR RESEARCH AND KNOWLEDGE TRANSFER AND EXCHANGE

1.1.1. Projects

- 1 Project.** Papel de la Proteína Sur8 en piel y su Implicación en Procesos de Inflamación Epidérmica. (Universidad Alfonso X El Sabio). 01/11/2021-22/07/2022. 6.000 €.
- 2 Project.** Caracterización Funcional de la Proteína Sur-8 y su Implicación en Alteraciones Neurológicas y Metabólicas Asociadas. Yunta González. (Universidad Alfonso X El Sabio). 01/01/2019-31/12/2021. 90.000 €.
- 3 Project.** Papel de la Autofagia y su modulación en fibroblastos de pacientes con Esclerosis Lateral Amiotrófica (ELA) y en el modelo celular NSC-34 en un contexto de normo o hiperglucemia. Yolanda Campos González. (Instituto de Salud Carlos III). 01/01/2013-31/12/2015.
- 4 Project.** Sphingolipids as targets for the recovery from spinal cord injuries: deciphering the role of sphingosine-1-phosphate. Fundació La Marató de TV3, P359/C/2011. (Hospital Nacional de Paraplégicos). 2012-2014.
- 5 Project.** Evaluación del potencial terapéutico de la Adenosina Tetrafosfato (AP4A) en el tratamiento del daño secundario en el trauma de la médula. Consejería de Sanidad de la Junta de Comunidades de Castilla-La Mancha (FISCAM). P.I. David Reigada Prado. (Hospital Nacional de Paraplégicos). 01/01/2011-31/12/2013.
- 6 Project.** Caracterización funcional de nuevos reguladores de las proteínas inhibidoras de apoptosis en el daño neurotraumático de la médula espinal. Consejería de Sanidad de la Junta de Comunidades de Castilla-La Mancha (FISCAM) PI2009/72. P.I. Rodrigo Martínez Maza. (Hospital Nacional de Paraplégicos). 01/01/2010-31/12/2012.
- 7 Project.** Estudio del papel de la proteína inhibidora de apoptosis XIAP en nuevas terapias neuroprotectoras de la lesión medular.. Fondo de Investigación Sanitaria (FIS)-Instituto de Salud Carlos III PI2008/1941. P.I. Rodrigo Martínez Maza. (Hospital Nacional de Paraplégicos). 01/01/2009-31/12/2011.
- 8 Project.** Identificación y caracterización de los miRNAs mediadores de la actividad antiapoptótica de la familia IAP y su potencial terapéutico en la lesión secundaria de la Médula Espinal. Fundación para la Investigación Sanitaria de Castilla – La Mancha, FISCAM PI2008/48. P.I. Mónica Yunta González. (Hospital Nacional de Paraplégicos). 01/01/2009-31/12/2011. 114.335,74 €.
- 9 Project.** Ayuda para adquisición de equipamiento científico-tecnológico con fines de investigación. Equipamiento: Microscopio estereoscópico de investigación SZX16. Set optica planapocromatica 1 x v 1,6x. Electroporador de alta eficiencia amaxa nucleofector. Consejería de Sanidad de la Junta de Comunidades de Castilla-La Mancha (FISCAM) EQ2007/20. P.I. Rodrigo Martínez Maza. (Hospital Nacional de Paraplégicos). 01/01/2008-31/12/2008.
- 10 Project.** Los miARN neuroprotectores en la lesión neurotraumática de la médula espinal. Fundación Mapfre. P.I. Mónica Yunta González. (Hospital Nacional de Paraplégicos). 01/01/2008-31/12/2008. 15.000 €.
- 11 Project.** Nuevas quinasas implicadas en la respuesta al daño genotóxico mediado por p53, jun y BRCA1. Fondo de Investigación Sanitaria (PI020585). P.I. Pedro A. Lazo. (Instituto de Salud Carlos III). 01/01/2003-31/12/2005.
- 12 Project.** Caracterización de proteínas de nuevas vías de señalización implicadas en proliferación y apoptosis.. Ministerio de Ciencia y Tecnología, (SAF2000-0169). P.I. Pedro A. Lazo. (Centro de Investigación del Cáncer). 01/01/2001-31/12/2003.
- 13 Project.** Evaluación de los antígenos tetraspanin como marcadores pronósticos en linfomas B humanos. Consejería de Sanidad de Junta de Castilla y León (SA01/02). P.I. Pedro A. Lazo. (Centro de Investigación del Cáncer). 01/01/2002-31/12/2002.

- 14 Project.** Señalización por el antígeno CD53, una proteína tetraspan, y sus efectos en biología celular.. Consejería de Educación, Junta de Castilla y León. (CSI1/01). P.I. Pedro A. Lazo. (Centro de Investigación del Cáncer). 01/01/2001-31/12/2002.
- 15 Project.** Alteraciones genéticas recurrentes en carcinoma de cervix. Fondo de Investigación Sanitaria, FIS98-0313. P.I. Pedro A. Lazo. (Instituto de Salud Carlos III). 01/01/1998-31/12/2000.
- 16 Project.** Alteraciones genéticas del gen de susceptibilidad tumoral TSG101 en cánceres humanos y desarrollo de reactivos para su estudio.. Comunidad Autónoma de Madrid. P.I. Pedro A. Lazo. (Instituto de Salud Carlos III). 01/01/1999-31/12/1999.
- 17 Project.** Antígeno CD53 humano: regulador de la producción de óxido nítrico y posible marcador tumoral.. Fondo de Investigaciones Sanitarias, FIS95-0413. P.I. Pedro A. Lazo. (Instituto de Salud Carlos III). 01/01/1995-31/12/1997.

1.1.2. Contracts

- 1 Contract.** Relevancia funcional de la Proteína SHOC-2/Sur8 e implicación en envejecimiento y sus alteraciones asociadas Fundación Universidad Alfonso X El Sabio. López González. 01/05/2022-31/12/2022. 5.000 €.

1.2. RESULTS AND DISSEMINATION OF RESEARCH AND KNOWLEDGE TRANSFER AND EXCHANGE ACTIVITIES

1.2.1. Research activity

AC: corresponding author. (nº x / nº y): position / total authors. If applicable, indicate the number of citations

- 1 Scientific paper.** Natalia; Teresa; María Pilar; et al; José M. 2023. PKD phosphorylation and COP9/Signalosome modulate intracellular Spry2 protein stability. *Oncogenesis*. April 12 (1)-20, pp.1-10.
- 2 Scientific paper.** Marcos, J Caballero-Lopez; Manuel Nieto-Díaz; Mónica Yunta; et al; Rodrigo M. Maza. 2017. XIAP Interacts with and Regulates the Activity of FAF1. *Biochimica et Biophysica Acta (BBA) - Molecular Cell Research*. Elsevier. 1864-7, pp.1335-1348.
- 3 Scientific paper.** B Anta; A Pérez-Rodríguez; J Castro; et al; JM Rojas Cabañeros. 2016. PGA1-induced apoptosis involves specific activation of H-Ras and N-Ras in cellular endomembranes. *Cell Death and Disease*. Official Journal of the Cell Death Differentiation Association. 7-e2311, pp.1-12.
- 4 Scientific paper.** Nieto-Díaz, M; Esteban, F.J; Reigada, D; et al; Maza, R.M. 2014. MicroRNA dysregulation in spinal cord injury: causes, consequences and therapeutics. *Frontiers in Cellular Neuroscience*. Tommaso Pizzorusso. 8-53, pp.1-19.
- 5 Scientific paper.** Manuel Nieto-Díaz; Daniel Wolfgang Pita-Thomas; Teresa Muñoz-Galdeano; et al; Rodrigo Martínez-Maza. 2012. Deer antler innervation and regeneration. *Frontiers in Bioscience*. 17, pp.1389-1401.
- 6 Scientific paper.** Mónica Yunta; Manuel Nieto-Díaz; Francisco J Esteban; et al; Rodrigo M Maza. 2012. MicroRNA dysregulation in the Spinal Cord following traumatic injury. *Plos One*. 7-4, pp.e34534.
- 7 Scientific paper.** M Nieto-Díaz; W Pita-Thomas; R.M Maza; et al; M. Nieto-Sampedro. 2011. Factors promoting axon growth in the deer antler. *Animal Production Science*. 51-4, pp.351-354.
- 8 Scientific paper.** D Wolfgang Pita-Thomas; Carmen Fernández-Martos; Mónica Yunta; et al; Manuel Nieto-Díaz. 2010. Gene expression of axon growth promoting factors in the deer antler. *Plos One*. 5-12, pp.e15706.
- 9 Scientific paper.** M Yunta González; M Nieto-Díaz; F.J. Esteban; M López-Rodríguez; R.M Navarro-Ruiz; D. Reigada; D.W Pita-Thomas; R.M. Maza. 2010. Los microRNAs neuroprotectores en el daño secundario de la lesión medular traumática. *Trauma*. Fundación Mapfre. 21-1, pp.47-52.
- 10 Scientific paper.** Monica Yunta; Pedro A. Lazo. 2009. CD53. *UCSD Nature Molecule Pages*. doi:10.1038/mp.a0035.

- 11 Scientific paper.** Thomas Andl; Elizabeth P Murchison; Fei Liu; et al; Sarah E. Millar. 2006. The miRNA-Processing Enzyme Dicer Is Essential for the Morphogenesis and Maintenance of Hair Follicles. *Current Biology*. elsevier. 16-23, pp.1-9.
- 12 Scientific paper.** S Barrena; J Almeida; M Yunta; et al; P.A. Lazo. 2005. Aberrant expression of Tetraspanin molecules in B-cell chronic lymphoproliferative disorders and its correlation with normal B-cell maturation. *Leukemia*. Nature Publishing Group. 19, pp.1376-1383.
- 13 Scientific paper.** S Barrena; J Almeida; M Yunta; A. López; J Diaz-Mediavilla; A Orfao; P.A. Lazo. 2005. Discrimination of biclonal B-cell chronic lymphoproliferative neoplasias by tetraspanin antigen expression. *Leukemia*. Nature Publishing Group. 23, pp.1-2.
- 14 Scientific paper.** Mónica Yunta; Pedro A. Lazo. 2003. Apoptosis protection and survival signal by the CD53 tetraspanin antigen. *Oncogene*. Nature Publishing Group. 22, pp.1219-1224.
- 15 Scientific paper.** Mónica Yunta; Alicia Rodríguez-Barbero; Miguel A. Arévalo; José M. López-Novoa; Pedro A. Lazo. 2003. Induction of DNA synthesis by ligation of the CD53 tetraspanin antigen in primary cultures of rat mesangial cells. *Kidney International*. Nature Publishing Group. 63, pp.534-542.
- 16 Scientific paper.** Mónica Yunta; Pedro A. Lazo. 2003. Tetraspanin proteins as organisers of membrane microdomains and signalling complexes. *Cellular Signalling*. Elsevier. 15, pp.559-564.
- 17 Scientific paper.** Mónica Yunta; José L. Oliva; Ramiro Barcia; Vaclav Horejsi; Pavla Angelisova; Pedro A. Lazo. 2002. Transient activation of the c-Jun N-terminal kinase(JNK) activity by ligation of the tetraspan CD53 antigen in different cell types. *European Journal of Biochemistry (FEBS)*. Federation of European Biochemical Societies. 269, pp.1012-1021.
- 18 Scientific paper.** Javier Hernández-Torres; Mónica Yunta; Pedro A. Lazo. 2001. Differential cooperation between regulatory sequences required for human CD53 gene expression. *Journal of Biochemical Chemistry*. American Society for Biochemistry and Molecular Biology Inc. . 276, pp.35505-35413.
- 19 Scientific paper.** M Ferrer; M Yunta; P.A. Lazo. 1998. Pattern of expression of tetraspanin antigen genes in Burkitt lymphoma cell lines. *Clinical and Experimental Immunology*. British Society for Immunology. 113, pp.346-352.
- 20 Scientific paper.** M Ferrer; M Yunta; P.A. Lazo. 1988. Tetraspan transmembrane antigen levels in Burkitt lymphoma cell lines. *Leukemia*. Nature Publishing Group. 12-733.
- 21 Scientific paper.** Natalia Martínez; Teresa Grajera; María Pilar de Lucas; et al; José Rojas-Cabañeros. PKD phosphorylation and the COP9/Signalosome modulate intracellular Spry2 1 protein stability. *Oncogenesis*.
- 22 Book chapter.** Lazo, P.A.; Mónica Yunta; Ramiro Barcia. 2017. CD53. *Encyclopedia of Signaling Molecules*. Choi, S. (2nd Ed.).Springer-Verlag. DOI 10.1007/978-1-46.
- 23 Book chapter.** Pedro A. Lazo; Mónica Yunta. 2000. Gene therapy using viral vectors: strategy and design issues. *Viral Vectors in Gene Therapy and Basic Research*. BioTechniques Books. Eaton Press. Natick, MA.. pp.597-607.
- 24 Congress.** María Inmaculada García González; Víctor Manuel Cordero Bolaños; María Pilar de Lucas López; et al; Mónica Yunta González. Functional characterization of SHOC2/Sur8 and its implication in renal pathophysiology. *The XIX Congreso de la Sociedad Española de Biología Celular.. Sociedad Española de Biología Celular (SEBC)*. 2021. Spain.
- 25 Congress.** Víctor Manuel Cordero Bolaños; Paula Palau Concejo; Daniel Peña Jiménez; et al; Mónica Yunta González. Study of the physiological role of the scaffold protein SHOC2/Sur8 in the development of vertebrates and its implication in neurodegeneration. *The XIX Congreso de la Sociedad Española de Biología Celular. Sociedad Española de Biología Celular (SEBC)*. 2021. Spain.
- 26 Congress.** Ana Banzo Berzosa; María Inmaculada García González; Daniel Peña Jiménez; et al; Mónica Yunta González. Functional characterization of SHOC2/Sur8 and its implication in hepatic pathophysiology. *The 45th FEBS Virtual Congress. The Federation of European Biochemical Societies (FEBS)*. 2021. Slovenia.

- 27 Congress.** María Inmaculada García González; Víctor Manuel Cordero Bolaños; María Pilar de Lucas López; et al; Mónica Yunta González. Functional characterization of SHOC2/Sur8 and its implication in renal pathophysiology. The 45th FEBS Virtual Congress. The Federation of European Biochemical Societies (FEBS). 2021. Slovenia.
- 28 Congress.** Víctor Manuel Cordero Bolaños; Paula Palau Concejo; Daniel Peña Jiménez; et al; Mónica Yunta González. Study of the physiological role of the scaffold protein SHOC2/Sur8 in the development of vertebrates and its implication in neurodegeneration. The 45th FEBS Virtual Congress. The Federation of European Biochemical Societies (FEBS). 2021. Slovenia.
- 29 Congress.** Ana Banzo Berzosa; María Inmaculada García González; Daniel Peña Jiménez; et al; Mónica Yunta González. Caracterización funcional de la SHOC2/Sur8 y su implicación en la patofisiología hepática. VI Jornadas doctorales de la Universidad de Murcia. Universidad de Murcia. 2021. Spain.
- 30 Congress.** María Inmaculada García González; Víctor Manuel Cordero Bolaños; María Pilar de Lucas López; et al; Mónica Yunta González. Caracterización funcional de la proteína Sur8 y su implicación en la patofisiología renal. VI Jornadas doctorales de la Universidad de Murcia. Universidad de Murcia. 2021. Spain.
- 31 Congress.** Víctor Manuel Cordero Bolaños; Paula Palau Concejo; Daniel Peña Jiménez; et al; Mónica Yunta González. Estudio del papel fisiológico de la proteína de enlace Sur8 en el desarrollo de vertebrados y su implicación en neurodegeneración. VI Jornadas Doctorales de la Universidad de Murcia. Universidad de Murcia. 2021. Spain.
- 32 Congress.** Lourdes Fermín Sánchez; Daniel Peña Jiménez; José Luis Oliva Martínez; et al; Mónica Yunta González. Physiological Characterization of a Sur8/SHOC2 Mouse Model. XVIII Congreso de Sociedad Española de Biología Celular. Sociedad Española de Biología Celular (SEBC). 2019. Spain.
- 33 Congress.** Teresa Muñoz de Galdeano; David Reigada Prado; Mónica Yunta González; Marcos Caballero López; Rosa Navarro Ruiz; Manuel Nieto Díaz; Rodrigo Martínez Maza. Implicación del proceso autofágico en la muerte celular asociada a la lesión medular traumática. XIV Congreso de la Sociedad Española de Neurociencia (SENC). SENC. 2011. Spain.
- 34 Congress.** Mónica Yunta González; Manuel Nieto Díaz; Francisco Esteban; et al; Rodrigo Martínez Maza. La lesión traumática de la médula espinal induce un patrón diferencial de expresión de microRNAs. XIV Congreso de la Sociedad Española de Neurociencia (SENC). SENC. 2011. Spain.
- 35 Congress.** David Reigada Prado; Rosa Navarro Ruiz; Marcos Caballero López; María de los Ángeles del Águila Sánchez; Teresa Muñoz de Galdeano; Mónica Yunta González; Manuel Nieto Díaz; Rodrigo Martínez Maza. La proteína inhibidora de la apoptosis XIAP atenúa el daño secundario de la lesión medular. XIV Congreso de la Sociedad Española de Neurociencia (SENC). SENC. 2011. Spain.
- 36 Congress.** Marcos Javier López-Rodríguez; Mónica Yunta; Rosa María Navarro-Ruiz; Manuel Nieto-Díaz; David Reigada; Daniel-Wolfgang Pita-Thomas; D Lindholm; Rodrigo M Maza. XIAP interaction with FAF prevents apoptotic effects in TNF alpha and FASL mediated pathways. Emergent therapies and translational research for spinal cord injury. Hospital Nacional de Paraplégicos. 2011. Spain.
- 37 Congress.** V. Moral-Darde; G. Barroso; A. Carrasco-Dueñas; et al; M. Nieto-Díaz. Application of proteomic techniques to analyze nerve growth promoters from deer antler conditioned medium. 4th Congress of the Spanish Proteomics Society. SEProt. 2011. Spain.
- 38 Congress.** M.J Lopez-Rodríguez; M Yunta; R.M Navarro-Ruiz; M. Nieto-Díaz; D. Reigada; D.W. Pita-Tomas; D. Lindholm; R. M Maza. XIAP interaction with FAF1 prevents apoptotic effects in TNF? and FASL mediated pathways.. 18th Euroconference on Apoptosis & 7th Training course on 'Concepts and Methods in Programmed Cell Death. European Cell Death Organization (ECDO). 2010. Belgium.
- 39 Congress.** M. Nieto-Díaz; W. Pita-Thomas; R. M. Maza; et al; M. Nieto-Sampedro. Factors promoting axon growth in the deer antler. 7th International Deer Biology Congress. 2010. Chile.

- 40 Congress.** R Navarro-Ruiz; M Yunta; M. Lopez-Rodriguez; M. Nieto-Díaz; D. Reigada; W. Pita-Tomas; D. Lindholm; R. M Maza. El inhibidor X-linked Inhibitor of Apoptosis Protein (XIAP) bloquea la respuesta apoptótica al estrés del retículo endoplásmatico.. XIII Congreso de la Sociedad Española de Neurociencia (SENC) 2009. SENC. 2009. Spain.
- 41 Congress.** M. Lopez-Rodriguez; M Yunta; R Navarro-Ruiz; M. Nieto-Díaz; D. Reigada; W. Pita-Tomas; D. Lindholm; R.M Maza. La interacción de XIAP con FAF1 regula los efectos apoptóticos en las vías FAS/CD95 y del Factor de Necrosis Tumoral ? (TNF?). XIII Congreso de la Sociedad Española de Neurociencia (SENC) 2009. SENC. 2009. Spain.
- 42 Congress.** M Yunta; M. Nieto-Díaz; M. Lopez-Rodriguez; R Navarro-Ruiz; D. Reigada; W. Pita-Tomas; R.M Maza. Los MicroRNAs Neuroprotectores en el Daño Secundario de la Lesión Medular Traumática. XIII Congreso de la Sociedad Española de Neurociencia (SENC) 2009. SENC. 2009. Spain.
- 43 Congress.** W. Pita-Thomas; G. Barroso; V. Moral; et al; M. Nieto-Díaz. Proteomic analysis of a media conditioned by growing deer antler tissues: identification of its neurite growth promoting proteins. Proteomics and human proteome. From bench to bedside. SEProt meeting. 2009. Spain.
- 44 Congress.** M.J. López-Rodriguez; C.M. Fernández-Martos; M Nieto-Diaz; M Yunta; R Navarro-Ruiz; R Martínez-Maza. Anti apoptotic XIAP engineered neuro stem cell transplantation after spinal cord injury. 5th International Stem Cell School in Regenerative Medicine. 2008. Germany.
- 45 Congress.** Xinjiang Wu; Monica Yunta; Emily Chu; Thomas Andl; Natalie Gallant; Stefano Piccolo; Adam Glick; Sarah Millar. Wnt/beta signaling regulates expansion but not survival of mammary stem cells. 67th Annual Meeting of the Society for Developmental Biology. University of Pennsylvania. 2008. United States of America.
- 46 Congress.** M Yunta; E. Y Chu; T Andl; N Gallant; S Piccolo; Sarah E. Millar. WNT/beta-catenin signaling is required for multiple stages of embryonic and postnatal mammary gland development. 55th Montagna Symposium on the Biology of Skin. 2006. United States of America.
- 47 Congress.** M Yunta; E. Y Chu; T Andl; N Gallant; S Piccolo; Sarah E. Millar. WNT/beta-catenin signaling is required for multiple stages of embryonic and postnatal mammary gland development. Postdoctoral Research Symposium at the University of Pennsylvania. University of Pennsylvania. 2006. United States of America.
- 48 Congress.** M Yunta; J.L Oliva; R Barcia; V Horejsi; P Angelisova; Pedro A. Lazo. Activation of the N-terminal jun kinase induced by CD53 antigen ligation is not mediated by the vav proto-oncogene. 27 th FEBS Meeting. FEBS. 2001. Portugal.
- 49 Congress.** M Yunta; R Barcia; V Horejsi; P Angelisova; P A. Lazo. Activation of the N-terminal kinase of c-jun (JNK) by ligation of the Tetraspanin CD53 antigen in lymphoid cells. Molecular Biology of Cellular Interactions: Adhesion Networks and Cytoskeletal Organization. European Science Foundation. 1999. Italy.
- 50 Congress.** M. Yunta; R Barcia; P. A. Lazo. Activación de la quinasa N-terminal de jun (JNK) tras la ligación del antígeno CD53 en células linfoides. VIII Congreso de la ASEICA. ASEICA. 1999. Spain.
- 51 Congress.** Monica Yunta; Ramiro Barcia; Pedro Lazo. Activation of the N-terminal kinase of c-jun (JNK) by ligation of the tetraspanin CD53 antigen in lymphoid cells. Eur. J. Cancer 35(2): S41. 1999.
- 52 Congress.** S Barrena; J Almeida; Monica Yunta; A Lopez; Alberto Orfao; Pedro A. Lazo. The switch in tetraspanin expression during normal B-cell development correlates with the phenotype of B-cell chronic lymphoproliferative disorders. FASEB Summer Conference on Advances in Tetraspanin Research. FASEB. 2004. United States of America.

1.2.2. Transfer and exchange of knowledge and professional activity

Actividad de carácter profesional

Personal Docente e Investigador - Profesora Ayudante Doctora: Universidad Complutense de Madrid. 2023- actual. Full time.

Narrative explanation of the contribution

Funciones desempeñadas

TEACHING: Coordinator of the subject Human Biochemistry (Medicine Degree) Coordinator of the subjects (Biotechnology degree): - Introduction to Cellular Biology - Cellular Biology Coordinator of the subjects: - Genetics (preuniversity access course for Veterinary) Biochemistry: laboratory training (Odontology and Veterinary degree) Immunology: laboratory training (Medicine degree) Biology: laboratory training (Medicine degree) Coordinator of the subject: -Manejo de Técnicas Experimentales I (Doctoral Program in Regenerative Biology and New Therapies) Manejo de Técnicas Experimentales II (Doctoral Program in Regenerative Biology and New Therapies) RESEARCH: Biomedical research, laboratory manager, thesis direction

- 2 **Docente (Profesor Adjunto) / Investigadora (Categoría GI-NIII (SNII)):** Universidad Alfonso X El Sabio. 20/11/2017. (4 years - 8 months - 2 days).
- 3 **Docente:** Universidad Alfonso X El Sabio. 01/02/2017. (10 months - 19 days). Temporary.
- 4 **Técnico Superior de Actividades Técnicas y Profesionales:** Instituto de Salud Carlos III. 13/11/2013. (3 years).
- 5 **técnico superior biólogo:** Hospital Nacional de Paraplégicos. 01/06/2007. (5 years).
- 6 **postdoctoral position:** University of Pennsylvania. 01/07/2005. (1 year - 11 months).
- 7 **postdoctoral position:** University of Pennsylvania. 15/04/2003. (1 year - 10 months - 15 days).
- 8 **investigador postdoctoral:** Centro de Biología Molecular Severo Ochoa. 01/10/2002. (2 months).
- 9 **Titulado Superior de Investigación y Laboratorio:** Centro de Investigación del Cáncer. Instituto de Biología Molecular y Celular del Cáncer. C.S.I.C.-Universidad de Salamanca. 01/05/2002. (4 months).
- 10 **investigador predoctoral FIS 98/0413:** Centro de Investigación del Cáncer. Instituto de Biología Molecular y Celular del Cáncer. C.S.I.C.-Universidad de Salamanca. (Salamanca).. 01/01/2001. (12 months).
- 11 **investigador predoctoral FIS 97/4036:** Instituto de Salud Carlos III. 01/01/1997. (4 years).
- 12 **investigador predoctoral BPY 323/95:** Instituto de Salud Carlos III. 01/11/1996. (2 months).
- 13 **estudiante en prácticas:** Instituto de Salud Carlos III. 01/06/1995. (2 months - 15 days).

2. TEACHING ACTIVITY

2.1. TEACHING EXPERIENCE

2.1.1. Dedicación docente (se acredita con el certificado que se adjunta en la sede electrónica de ANECA)

2.2. EVALUATION OF TEACHING QUALITY AND INNOVATION

Assessment by certificate (DOCENTIA) which is attached at ANECA's headquarters

2.2.1. Quality of teaching activity

Evaluation by means of self-report attached at ANECA's site

2.2.2. Teaching innovation projects

- 1 **Project:** Mejora de las habilidades sociales y del pensamiento crítico en estudiantes de Ciencias de la Salud mediante herramientas interactivas de participación para el aprendizaje colaborativo (HIPAC).. From 25/06/2024. Team member.

3. LEADERSHIP

3.2. SUPERVISION OF DOCTORAL THESES AND MASTER'S THESES

- 1** : Estudio del papel fisiológico de la proteína de enlace Sur8 y su implicación en neurodegeneración. 12/02/2024.
- 2** : Papel de los transportadores ABC en la barrera placentaria. 02/07/2021.
- 3** : Retinoides y vitamina C en dermocosmética. 02/07/2021.