

CURRICULUM VITAE

Alfredo Maqueda Fernández, Ph.D.

Personal Information

Birthdate: 21th of June, 1977.

Citizenship: Spanish.

Languages: Spanish, English.

Present Address: Laboratory of Molecular Neurology.
Unit of Experimental Neurology.
Hospital Nacional de Paraplégicos.
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Education and Academic Degrees:

2000: Degree in Biology (Field of Biochemistry and Molecular Biology), Autonomous University of Madrid (UAM).

2002: Master in Molecular Biology, Department of Molecular Biology of the Faculty of Biology, UAM. "Excellent" for the research work entitled: "*Papel de la integrina $\alpha\beta 1$ en la reorganización del citoesqueleto celular y la regulación de la apoptosis*". Advisor: Dr. José M^a Requena Rolania

2007: Ph.D. in Biological Science (Field of Biochemistry and Molecular Biology), Department of Biochemistry and Molecular Biology of the Faculty of Biology, UAM. "Cum Laude" for the thesis entitled: "*Regulación y función de la interacción de la integrina $\alpha\beta 1$ con los dominios Hep II y Hep III de Fibronectina. Papel en la reorganización del citoesqueleto y la formación de matrices de Fibronectina*". Advisor: Dra. María de los Angeles García Pardo.

Positions:

2001-2003: Technical Assistant at the Laboratory of Pathological Mechanisms in Human Hematological Neoplasias. Department of Cellular and Molecular Medicine of the Centro de Investigaciones Biológicas (CIB), Consejo Superior de Investigaciones Científicas (CSIC) (Spain).

2003-2007: Ph.D. student at the Laboratory of Pathological Mechanisms in Human Hematological Neoplasias. Department of Cellular and Molecular Medicine of the Centro de Investigaciones Biológicas (CIB), Consejo Superior de Investigaciones Científicas (CSIC) (Spain).

From 2008: Postdoctoral Researcher at the Laboratory of Molecular Neurology, Unit of Experimental Neurology of The National Hospital for Paraplegia (Spain).

Fellowships:

2003-2007: Fellowship for I3P-CSIC. Consejo Superior de Investigaciones Científicas (CSIC) (Spain).

Member of the following Societies:

- Spanish Society of Neuroscience (SENC).
- Federation of European Neuroscience Societies (FENS).
- Spanish Society of Immunology (SEI).

Teaching activity:

Pregraduate courses: Practical classes as predoctoral fellow (40 hours) of the subject “Food Chemistry and Biochemistry” belonging to the Bachelor Degree in Food Science and Technology at the Autonomous University of Madrid (2000-2001).

Research Grants and Projects:

Previous:

- 2000-2003: Spanish Ministry of Science and Technology (CICYT). Project: *Study of new features of integrin $\alpha 4 \beta 1$: Intracellular signaling through its interaction with the domain Hep III Fibronectin and regulation of apoptosis in chronic lymphocytic leukemia B.* Principal Investigator: Dra. María de los Angeles García Pardo. Role: *PhD student.*
- 2003-2006: Spanish Ministry of Science and Technology (CICYT). Project: *Metalloproteinases role in cell migration and infiltration of organs in chronic lymphocytic leukemia B. Integrin regulation and chemokine receptors.* Principal Investigator: Dra. María de los Angeles García Pardo. Role: *PhD student.*
- 2004-2007: Foundation “Mutua Madrileña” for Biomedical Research. Project: *Characterization and regulation of cell migration of B chronic lymphocytic leukemia (B-CLL). Potential therapeutic targets.* Principal Investigator: Dra. María de los Angeles García Pardo. Role: *PhD student.*
- 2006-2008: Spanish Ministry of Health, Program “Fondo de Investigaciones Sanitarias” (FIS). Project: *Neuroprotection and promotion of axonal regeneration in traumatic spinal cord injuries by means of a combined strategy including drugs, cell transplants and gene therapy.* Principal Investigator: Dr. F. Javier Rodríguez. Role: *Postdoctoral researcher.*
- 2006-2008: Counselling of Health of “Junta de Comunidades de Castilla-La Mancha”. Project: *Transplants of genetically modified ensheathing glia and adeno-associated virus for controlled expression of neuroprotective and axonal growth promoting factors in traumatic spinal cord injuries.* Principal Investigator: Dr. F. Javier Rodríguez. Role: *Postdoctoral researcher.*
- 2009-2012: Foundation for Health Research of Castilla-La Mancha (FISCAM). Project: *Characterization of the response driven by the Wnt family of*

glycoproteins through the canonical pathway in the proliferation and differentiation of adult neural precursors in adult traumatic spinal cord injuries. Principal Investigator: *Dr. F. Javier Rodríguez.* Role: *Postdoctoral researcher.*

2009-2012: Spanish Ministry of Health, Program “Fondo de Investigaciones Sanitarias” (FIS). Project: *Neuroprotection and repair of traumatic spinal cord injuries by means of combined administration of drugs and adult ensheathing glia transplants.* Principal Investigator: *Dr. F. Javier Rodríguez.* Role: *Postdoctoral researcher.*

2011-2013: Ministry of Science and Innovation (MICINN), Program INNPACTO. Project: *NEUROREG: Regenerative Medicine applied to spinal cord and peripheral nerve injuries. New products in advanced therapies and tools of diagnostic.* Principal Investigator: *HISTOCELL (Coordinator of a Consortium of 5 partners);* Principal Investigator: *Dr. F. Javier Rodríguez.* Role: *Postdoctoral researcher.*

2011-2014: HISTOCELL. Public-Private Research Agreement. Project: *Assessment of the functional recovery/preservation promoted by grafting of human adipose mesenchymal cells in a rat contusion model of spinal cord injury.* Principal Investigator: *Dr. F. Javier Rodríguez.* Role: *Postdoctoral researcher.*

2012-2014: International Foundation for Research in Paraplegia (IRP). Project: *Unravel the functional role and the therapeutic potential of meningeal stem cells in spinal cord injury.* Principal Investigator: *Prof. G. Fumagalli (Univ. of Verona) and F. Javier Rodríguez (HNP_SESCAM).* Role: *Postdoctoral researcher.*

2013-2017: Spanish Ministry of Health, Program “Fondo de Investigaciones Sanitarias” (FIS). Project: *The Wnt family of proteins in the inflammatory and glial response after spinal cord injury: a new therapeutic target?* Principal Investigator: *Dr. F. Javier Rodríguez.* Role: *Postdoctoral researcher.*

Current:

2019-2023: Ministry of Science, Innovation and Universities. Project: *WINSPIRE: Development of a therapy based on selective activation of the Wnt canonical pathway for the treatment of acute spinal cord injury.* Principal Investigator: *Dr. F. Javier Rodríguez.*

2019-2021: Spanish Ministry of Health, Institute of Health Carlos III for Technological Development in Health. Project: *SCI-IMMUNOPROTECT: Acute Spinal Cord Injury: IMMUNOmodulation & NeuroPROTection by means of Elastin-Like Recombinamers and Wnt Canonical Signaling Trigger.* Principal Investigators: *Dr. F. Javier Rodríguez (Coordinator), Dr. F. Javier Arias (Group BIOFORGE, University of Valladolid) and Israel González (Technical Proteins NanoBiotechnology, SME).*

2020-2022: Counselling of Education, Culture and Sports of the Regional Government of the “Junta de Comunidades de Castilla-La Mancha”. Project: *SCI-WINTHERAPY: Acute treatment of spinal cord injury by combined therapy with elastin hydrogels and recombinant activating proteins of the*

canonical Wnt pathway. Principal Investigators: Dr. F. Javier Rodríguez and Dr. Pau Honorato González.

Publication List:

1. Moyano JV, **Maqueda A**, Albar JP, García-Pardo A. A synthetic peptide from the heparin-binding domain III (repeats III4-5) of fibronectin promotes stress fiber and focal adhesion formation in melanoma cells. *Biochem J* 2003; 371: 565-571.
2. Moyano JV, **Maqueda A**, Casanova B, García-Pardo A. Alpha4beta1 integrin/ligand interaction inhibits alpha5beta1-induced stress fibers and focal adhesions via downregulation of RhoA and induces melanoma cell migration. *Mol Biol Cell* 2003;14: 3699-3715.
3. **Maqueda A**, Moyano JV, Gutiérrez-López MD, Ovalle S, Rodríguez-Frade JM, Cabañas C, Garcia-Pardo A. Activation pathways of alpha4beta1 integrin leading to distinct T cell cytoskeleton reorganization, Rac1 regulation and Pyk2 phosphorylation. *J Cell Physiol* 2006; 207:746-756.
4. **Maqueda A**, Moyano JV, Peters DM, Garcia-Pardo A. The heparin III-binding domain of fibronectin (III4-5 repeats) binds to fibronectin and inhibits fibronectin matrix assembly. *Matrix Biol* 2007; 26: 642-651.
5. Feijoo-Cuaresma M, Méndez F, **Maqueda A**, Esteban MA, Naranjo-Suárez S, Castellanos MC, Hernández del Cerro M, Vázquez SN, García-Pardo A, Landázuri MO, Calzada MJ. Inadequate activation of the GTPase RhoA contributes to the lack of fibronectin matrix assembly in von Hippel-Lindau protein defective renal cancer cells. *J Biol Chem* 2008; 283: 24982-24990.
6. Fernandez-Martos CM, Gonzalez-Fernandez C, Gonzalez P, **Maqueda A**, Arenas A, Rodriguez FJ. Differential expression of Wnts after Spinal Cord Contusion Injury in adult rats. *PLoS One* 2011;6(11):e27000.
7. Fernández R, González P, Lage S, Garate J, **Maqueda A**, Marcaida I, Maguregui M, Ochoa B, Rodríguez FJ, Fernández JA. Influence of the Cation Adducts in the Analysis of MALDI-IMS. Data from Injury Models of Rat Spinal Cord. *Analytical Chemistry* (2017); 89(16): 8565-8573.
8. **Maqueda A**[&], Rodríguez FJ[&]. Efficacy of human HC016 cell grafts in tissue preservation and functional recovery in a rat model of acute spinal cord injury. [&]Co-corresponding authors. *J Tissue Eng Regen Med* (2020), 14(2):319-333.
9. **Maqueda A**, Arenas E, Rodríguez FJ. Wnt5a-overexpressing c17.2 Neural Precursor transplantation increases myelin loss and glial reactivity with functional recovery impairment in a rat model of spinal cord contusion. *Neurobiology of Disease* (Manuscript in preparation).

Congress presentations:

1. Moyano, J.V., **Maqueda, A.**, Casanova, B., and Garcia-Pardo, A. 2001. “ $\alpha 4$ integrin interaction with the Hep III fibronectin domain interferes with the Rho signaling pathway in melanoma cells” (Poster). 3rd meeting on Cell Adhesion and Migration in Inflammation and Cancer, Amsterdam, Netherlands.

2. Moyano, J.V., Casanova, B., **Maqueda, A.**, and Garcia-Pardo, A. 2001. " *$\alpha 4$ integrin interaction with the Hep III fibronectin domain interferes with the Rho signaling pathway in melanoma cells*"(Poster).41th Annual meeting of the ASCB, Washington, DC, USA. *Mol. Biol. Cell*, 12 [suppl.]: 325a: 1784.
3. Moyano, J.V., Casanova, B., **Maqueda, A.**, and Garcia-Pardo, A. 2002. " *$\alpha 4\beta 1$ integrin engagement inhibits $\alpha 5\beta 1$ -induced stress fiber and focal contact formation via downregulation of RhoA and induces melanoma cell migration*"(Poster). Workshop of the Fundación Juan March: Regulation and Functional Insights in Celular Polarity, Madrid, Spain.
4. Moyano, J.V., Casanova, B., **Maqueda, A.**, and Garcia-Pardo, A. 2002. "*Antagonistic roles for $\alpha 4\beta 1$ and $\alpha 5\beta 1$ integrins in melanoma cell cytoskeleton organization and migration*"(Poster). Gordon Research Conference on Signaling by Adhesion Receptors, New London, RI, USA.
5. Moyano, J.V., Casanova, B., **Maqueda, A.**, and Garcia-Pardo, A. 2002. " *$\alpha 4\beta 1$ integrin interaction with the Hep III fibronectin domain inhibits $\alpha 5\beta 1$ -induced stress fibers and focal adhesions via downregulation of RhoA and induces melanoma cell migration*"(Poster).CNIO Cancer Conferences: Mechanisms of Invasion and Metastasis, Madrid, Spain.
6. Moyano, J.V., **Maqueda, A.**,Albar, J.P., and García-Pardo, A. 2003. "*A synthetic peptide from fibronectin III4-5 repeats (Hep III domain) promotes stress fibers and focal adhesions in melanoma cells*"(Poster).Gordon Research Conference on Fibronectin, Integrins and Related Molecules, Ventura, CA, USA.
7. **Maqueda, A.**, Moyano, J.V., Gutiérrez-López, D., Cabañas,C., and García-Pardo, A. 2003."*Activation of $\alpha 4\beta 1$ integrin by different inside-out or outside-in pathways results in distinct T cell cytoskeleton reorganization and movement*" (Poster).43th Annual Meeting of the ASCB, San Francisco, CA, USA. *Mol. Biol Cell*.14[suppl.]: 336a: 1879.
8. **Maqueda, A.**, Moyano, J.V., Gutiérrez-López, D., Cabañas, C., y García-Pardo, A. 2003. *La activación de la integrina $\alpha 4\beta 1$ con Mn^{2+} o con el anticuerpo monoclonal anti- $\beta 1$ TS2/16 resulta en una diferente reorganización del citoesqueleto en células T.* Oral presentation.XXIX CNIC, Cádiz, Spain.
9. Moyano, J.V., **Maqueda, A.**, Casanova, B., y García-Pardo, A. 2003. *Regulación de la migración de células de melanoma por la acción coordinada de las integrinas $\alpha 4\beta 1$ y $\alpha 5\beta 1$.*Oral presentation.2^{as} Jornadas Oncológicas CIC sobre Angiogénesis y Metástasis,Salamanca, Spain.
10. **Maqueda, A.**, Moyano, J.V., Gutiérrez-López, D., Cabañas, C., and García-Pardo, A.2004."*Activation pathways of $\alpha 4\beta 1$ integrin leading to distinct T cell cytoskeleton reorganization and Pyk-2 phosphorylation*"(Poster). CIIS Cellular Interactions in the Immune System. Geneva 17-18 April.
11. **Maqueda, A.**,Moyano, J.V., Gutiérrez-López, D., Cabañas, C., and García-Pardo, A. 2004. "*Activación pathways of $\alpha 4\beta 1$ integrin leading to distinct T cell cytoskeleton reorganization and Pyk-2 phosphorylation*"(Poster). 12th International conference on Second Messengers and Phosphoproteins. Montreal 3-5 August
12. **Maqueda, A.**,Moyano, J.V., Gutiérrez-López, D., Ovalle, Susana., Cabañas, C., and García-Pardo, A. 2004. "*Activación pathways of $\alpha 4\beta 1$ integrin leading to distinct T*

cell cytoskeleton reorganization and Pyk-2 phosphorylation”(Poster).44th Annual Meeting of the ASCB, Washington DC, USA. *Mol. Biol Cell*, 15 (suppl): 86a: 322.

13. **Maqueda, A.**, Moyano, J.V., Gutiérrez-López, D., Ovalle, S., Cabañas, C., and García-Pardo, A. 2005. “*Distinct T cell intracellular response upon activation of $\alpha4\beta1$ integrin by different stimuli*”(Poster).Gordon Research Conference on Fibronectin, Integrins, and Related Molecules,Ventura, CA, USA.
14. **Maqueda, A.**, Moyano, J.V., Gutiérrez-López, D., Ovalle S, Rodríguez-Frade J.M., Cabañas, C., y García-Pardo, A. 2005.” *Regulación de la respuesta migratoria o estacionaria de células T leucémicas a través de la activación diferencial de la integrina $\alpha4\beta1$* ”Oral presentation. 2^{as} Jornadas sobre Mecanismos de Invasión y Metástasis, Segovia,Spain.
15. **Maqueda A.**,Moyano, J.V., Peters, Donna M., and García-Pardo, A. 2006.“*Fibronectin heparin III binding domain (III4-5 repeats) is involved in fibronectin fibrillogenesis*” (Poster). 46th Annual Meeting of the ASCB, San Diego, CA, USA.
16. **Maqueda Alfredo.**, Shields Shannon., Fernández Elisa., Vázquez Sandra., Arenas Ernest and Rodríguez Fco Javier, 2008. “*Grafting of Wnt-1-overexpressing c17.2 neural stems cells improve locomotor function after contusion spinal cord injury in rats*”Oral presentation.5th International Stem Cell School in Regenerative Medicine, Berlin-Rostock,Germany.
17. **Maqueda, A.**, Shields Shannon., Fernández Elisa., Vázquez Sandra., Fernández Carmen M^a, González Carlos, Pérez Virginia., Ernest Arenas and Fco Javier Rodriguez, 2009.*El trasplante de precursores neurales c17.2 que sobreproducen Wnt1 da lugar a una mejora en la función locomotora en ratas Wistar tras una lesión medular tipo contusión* (Poster).Congress: “XIII Congreso Nacional Sociedad Española de Neurociencia”Tarragona, Spain.
18. Shields S, Fernandez-Nuñez E, Fernandez-Martos CM, Gonzalez-Fernández C, **Maqueda A**, Vazquez S, Perez V,Rodriguez FJ, 2009.*La vía de señalización canónica inducida por Wnts está constitutivamente activa en neuronas del asta dorsal de médula espinal adulta y cambia en respuesta a lesión medular* (Poster).Congress: “XIII Congreso Nacional Sociedad Española de Neurociencia”Tarragona, Spain.
19. Fernández-Martos CM, González-Fernández C, Fernández-Núñez E, **Maqueda-Fernández A**, Pérez-Jort V, Vázquez-Pérez S, Rodríguez FJ, 2009. *Análisis de la expresión de las proteínas Wnts tras la lesión medular espinal en ratas Wistar adultas* (Poster).Congress: “XIII Congreso Nacional Sociedad Española de Neurociencia”Tarragona, Spain.
20. **Maqueda A**, Fernández-Martos CM, González P, González-Fernández C, Vázquez S, Pérez V, Medrano M, Rodríguez FJ.2011.*El trasplante de precursores neurales C17.2 que sobreproducen Wnt1 mejoran la función locomotora tras lesión medular por contusión en ratas wistar* (Poster). Congress: “XIV Congreso Nacional Sociedad Española de Neurociencia”, Salamanca, Spain.
21. **Maqueda A**, Fernández-Martos CM, González P, González-Fernández C, Vázquez S, Pérez V, Medrano M, Rodríguez FJ.2011.*El trasplante de precursores neurales C17.2 que sobreproducen Wnt5a incrementa la perdida de mielina, la reactividad astrolgial y microglial, y empeora la recuperación funcional en un modelo de*

- contusión medular en rata adulta (Poster)*. Congress: “XIV Congreso Nacional Sociedad Española de Neurociencia”, Salamanca, Spain.
22. González P, Fernández-Martos CM, González-Fernández C, **Maqueda A**, Pérez V, Medrano M, Vázquez S, Rodríguez FJ.2011.*Spatio-temporal expression pattern of Frizzled receptors alter contusive spinal cord injury (Poster)*. Congress: “XIV Congreso Nacional Sociedad Española de Neurociencia”, Salamanca, Spain.
 23. González P, Fernández-Martos CM, González-Fernández C, **Maqueda A**, Pérez V, Medrano M, Vázquez S, Rodríguez FJ.2011.*Ryk Receptor Is Expressed in Fibroblasts and Glial Cells, and it Modulates their Response to Spinal Cord Injury (Poster)*. Congress: “XIV Congreso Nacional Sociedad Española de Neurociencia”, Salamanca, Spain.
 24. González-Fernández C, Fernández CM, González P, **Maqueda A**, Vázquez S, Pérez V, Medrano M, Rodríguez FJ.2011.*Análisis de la expresión de los receptores y co-receptores de la vía de señalización Wnt tras una lesión medular en ratones adultos (Poster)*. Congress: “XIV Congreso Nacional Sociedad Española de Neurociencia”, Salamanca, Spain.
 25. González-Fernández C, Fernández CM, González P, **Maqueda A**, Vázquez S, Pérez V, Medrano M, Rodríguez FJ.2011.*Análisis de la expresión de ligandos e inhibidores de la vía de señalización Wnt tras una lesión medular en ratones adultos (Poster)*. Congress: “XIV Congreso Nacional Sociedad Española de Neurociencia”, Salamanca, Spain.
 26. Fernández-Martos CM, González P, González-Fernández C, **Maqueda A**, Vázquez S, Pérez V, Medrano M and Rodríguez FJ.2011.*Acute intraparenchymal leptin administration reduces secondary cell death and enhances functional recovery after spinal cord injury in rats (Poster)*. Congress: “XIV Congreso Nacional Sociedad Española de Neurociencia”, Salamanca, Spain.
 27. Fernández-Martos CM, González P, González-Fernández C, **Maqueda A**, Vázquez S, Pérez V, Medrano M and Rodríguez FJ.2011.*Differential expression of Wnts after spinal cord contusion injury in adult rats (Poster)*. Congress: “XIV Congreso Nacional Sociedad Española de Neurociencia”, Salamanca, Spain.
 28. Rodríguez FJ, Fernández-Martos CM, González P, Vázquez S., Fernández E, **Maqueda A**, González-Fernández C and Pérez V,2011.*Acute ibuprofen anti-inflammatory and neuroprotective action after spinal cord injury in adult wistar rats (Poster)*. Congress: “XIV Congreso Nacional Sociedad Española de Neurociencia”, Salamanca, Spain.
 29. González-Fernández C, Fernández CM, González P, **Maqueda A**, Pérez V, Medrano M, Vázquez S, Arenas E and Rodríguez FJ.2013. *Wnt expression in the spinal cord of adult mice: more than a developmental morphogen?(Poster)*. Congress: “XV Congreso Nacional Sociedad Española de Neurociencia”, Oviedo, Spain.
 30. González P, Fernández CM, González-Fernández C, **Maqueda A**, Medrano M, Pérez V, Vázquez S, Arenas E and Rodríguez FJ. 2013.*Frizzled receptors expression in the damaged spinal cord: special focus on spatio-temporal and cellular expression pattern of Frizzled 5. (Poster)*. Congress: “XV Congreso Nacional Sociedad Española de Neurociencia”, Oviedo, Spain.

31. Fernández CM, González P, González-Fernández C, **Maqueda A**, Vázquez S, Pérez V, Medrano M, Arenas E and Rodríguez FJ. 2013. *Acute intraparenchymal leptin administration reduces secondary cell death and enhances functional recovery after spinal cord injury in rats*. (Poster). 4th Australian Neurotrauma Symposium. Hobart, Australia.
32. **Alfredo Maqueda**, Javier Díez-García, Marta Nicolas, Begoña Castro, Francisco J. Rodríguez. *Neurosave, a new cell-based therapy to treat acute spinal cord injury. Preclinical results*. 2015. ISCORE 15. 3rd International Spinal Cord Repair Meeting. Fundacion Step by Step. Barcelona, Spain.
33. González-Fernández Carlos, González Sanchez, Pau ;**Maqueda Fernández, Alfredo** ;González Pérez, Francisco ;Pérez Jort, Virginia ;Vazquez Pérez, Sandra ;Galan Arriero, Iriana ;Rodriguez Muñoz, Francisco Javier.2017“ALTERED EXPRESSION OF WNT FAMILY OF PROTEINS IN HUMAN SPINAL CORD OF AMYOTROPHIC LATERAL SCLEROSIS PATIENTS”(Poster). Congress: “XVII Congreso Nacional Sociedad Española de Neurociencia”, Alicante, Spain
34. **Maqueda Fernández, Alfredo**; Díez, Javier, Castro, Begoña;Nicolás, Marta ;Medrano Fernández, Marta ;Rodriguez Muñoz, Francisco Javier. 2017 “EFFICACY OF HC016 MESENCHYMAL CELLS IN A RAT MODEL OF ACUTE SPINAL CORD INJURY” (Poster). Congress: “XVII Congreso Nacional Sociedad Española de Neurociencia”, Alicante, Spain
35. González Sanchez, Pau,González-Fernández Carlos,; **Maqueda Fernández, Alfredo** ;González Pérez, Francisco ;Pérez Jort, Virginia ;Vazquez Pérez, Sandra ;Galan Arriero, Iriana ;Rodriguez Muñoz, Francisco Javier.2017“SPATIO-TEMPORAL AND CELLULAR EXPRESSION PATTERN OF PTK7 IN THE HEALTHY RAT AND HUMAN SPINAL CORD AND AFTER TRAUMATIC SPINAL CORD INJURY IN THE RAT.”(Poster). Congress: “XVII Congreso Nacional Sociedad Española de Neurociencia”, Alicante, Spain
36. González Pérez, Francisco,González-Fernández Carlos, González Sanchez, Pau,; **Maqueda Fernández, Alfredo**;Galan Arriero, Iriana, Pérez Jort, Virginia ;Vazquez Pérez, Sandra,Rodriguez Muñoz, Francisco Javier.2017“ACUTE LEPTIN TREATMENT MODIFIES WNT PROFILE EXPRESSION AFTER SPINAL CORD INJURY IN THE RAT.”(Poster). Congress: “XVII Congreso Nacional Sociedad Española de Neurociencia”, Alicante, Spain

Specialization courses:

1. Course of “Proteomic 2002”. Applied Biosystem, Madrid (Spain) 2002.
2. Symposium on Cell Migration in Physiology and Disease. Centro de Investigaciones Biológicas (CIB), Consejo Superior de Investigaciones Científicas (CSIC). Madrid (Spain) 2003.
3. Symposium on Analytical Biology and Confocal Microscopy Bioimaging. Centro de Investigaciones Biológicas (CIB), Consejo Superior de Investigaciones Científicas (CSIC). Madrid (Spain) 2004.

4. Course of "Training in handling the 7900HTFastRealTime PCR System + ABIPRISM6100" Applied Biosystems, Madrid (Spain) 2007.
5. Course on "Analysis of functional images using SPM". The National Hospital for Paraplegia, Toledo (Spain) 2007.
6. II Symposium of the Institute of Neurosciences at the UAB Spinal Cord Injury: Regeneration and Rehabilitation. Technical seminars Institut Guttmann, Barcelona (Spain) 2008.
7. Course of "Software for the analysis of data obtained by flow cytometry". The National Hospital for Paraplegia, Toledo (Spain) 2008.
8. Course of "Transplantation of neural stem cells in the rat brain". University of Rostock (Germany) 2008.
9. Course of Fluorescence and Confocal Microscopy. The National Hospital for Paraplegia, Toledo (Spain) 2009.
10. Course of Proteomic. The National Hospital for Paraplegia, Toledo (Spain) 2009.
11. International Spinal Cord Meeting. Bellvitge Hospital, Barcelona (Spain) 2011.
12. Course of Animal Handling for Research Personnel (Category B). The National Hospital for Paraplegia, Toledo (Spain) 2012.
13. Responsible for the design and management of experimental procedures with animals (Category C). The National Hospital for Paraplegia, Toledo (Spain) 2014.
14. Course of "Introduction to flow cytometry". The National Hospital for Paraplegia, Toledo (Spain) 2016.
15. Course of "Introduction to the FlowJo flow cytometry data analysis program". The National Hospital for Paraplegia, Toledo (Spain) 2017.
16. Course of "Introduction to microscopy and image analysis". The National Hospital for Paraplegia, Toledo (Spain) 2017.
17. Course of "Lipidomic and Proteomic". The National Hospital for Paraplegia, Toledo (Spain) 2018.
18. Course "Theoretical-practical of quantitative proteomics". The National Hospital for Paraplegia, Toledo (Spain) 2018.
19. Course "Deep Learning Microscopy: Opening Doors to New Applications". Olympus Consulting, S.L (Spain). 2019
20. Course "Bibliographic management with Mendeley". SESCAM (Spain) 2019.

21. Course “Statistics in research”. SESCAM (Spain)2019

22. Course of “Introduction to Resonance Imaging Magnetic High Field in small animal”. The National Hospital for Paraplegia, Toledo (Spain) 2020.