



## AYUDAS RAMÓN Y CAJAL CONVOCATORIA 2017

### Turno de acceso general

**Nombre:** BARBARROJA PUERTO, NURIA  
**Referencia:** RYC-2017-23437  
**Área Científica:** Medicina Clínica y Epidemiología  
**Correo Electrónico:** nuria.barbarroja.exts@juntadeandalucia.es

#### Título:

Mecanismos moleculares implicados en el desarrollo de complicaciones metabólicas, obesidad y resistencia a la insulina en la artritis reumatoide y psoriasis

#### Resumen de la Memoria:

My research career comprises 16 years of work in three different pathologies (Leukemia, Obesity and Autoimmune Diseases) which has given me an extensive background in molecular mechanisms underlying thrombosis, metabolic complications and cardiovascular disease. The quality of my investigation is supported by the publication of the findings in journals of high relevance in each area, the direction of thesis and projects, the participation in national and international projects and the generation of three patents.

During my postdoctoral training I worked in both, Virgen de la Victoria Hospital, Malaga for 2 years under the supervision of Dr. Tinahones and in the Institute Metabolic Science, University of Cambridge for 2 years, under the supervision of the professor Dr. Vidal-Puig, where I actively participated in several projects and research lines related to the obesity and metabolic field. Currently, I am holding a Miguel Servet (ISCIII) contract in the IMIBIC.

I have published 46 articles, being main author in 19 of them. I have been involved as associate investigator in 30 international and national research projects.

Supporting my career as raising principal investigator, I have been principal investigator of 5 projects (two funded by a private company, Roche Pharma, S.A, one from the Council of Health, Junta de Andalucía and one associated to the Miguel Servet Programme). Among them, in the last call, I was awarded by the Institute of Health Carlos III, FIS, to carry out a project as principal investigator (PI17/01316).

The objective of my current research line is to determine the molecular mechanisms involved in the development of metabolic comorbidities, such as obesity and insulin resistance, that contributes to the cardiovascular disease associated to rheumatoid and psoriatic arthritis.

I have directed four theses and I am currently directing one more.

My teaching experience is supported by the direction of three master final projects, and the classes given in graduate and post-graduate courses.

My H-index is 18. I have participated in national and international congresses, more than 100. The sum of the times that I have been cited is 929 and my total impact factor is 238.5

Finally, recently I have been mentioned Emerging Investigator by the IMIBIC, which recognizes my labour leading my own research line within the group GC05 @Systemic and chronic inflammatory autoimmune chronic of the locomotor system and connective tissue@.

#### Resumen del Currículum Vitae:

##### PROFESSIONAL EXPERIENCE

- .- PhD Student: Research Unit, Reina Sofia Hospital, Cordoba, Spain 2001-2006
- .- Postdoctoral fellowship, Josep Carreras Foundation, Research Unit, Reina Sofia Hospital, Cordoba, Spain 2007-2008
- .- Postdoctoral researcher (Sara Borrell program), IMABIS foundation, Virgen de la Victoria Hospital, Malaga, Spain 2009-2010/2012-2012 (24 months)
- .- Postdoctoral researcher, Institute Metabolic Science, University of Cambridge, UK 2010-2011 (24 months)
- .- Postdoctoral researcher, University of Cordoba, IMIBIC, Cordoba, Spain 2013-2015
- .-Postdoctoral researcher under Miguel Servet type 1 program, IMIBIC, Cordoba, Spain from 2016

##### EDUCATION

Graduate in Biology Name of qualification: Molecular and Cellular Biology  
Institution issuing the qualification: University of Cordoba Date of qualification: 23/09/2000



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PhD

Doctorate programme: Biomedicine University issuing the qualification: University of Cordoba

Date of qualification: 15/12/2006

#### TEACHING ACTIVITY

Direction of Doctoral theses: 4, PhD students: Luis Aristides Torres 2009; Patricia Ruiz Limon 2016; Carlos Perez Sanchez 2017 and Rafaela Ortega Castro 2017. Currently supervising 1 more; Doctorate student; Ivan Arias de la Rosa

Direction of master final projects: 3, Students: Manuel Peñafiel Benavides 2016, Miriam Ponce Ruiz 2017 and Micaela Munizaga Larroude 2017.

Teaching in graduate and post-graduate courses: Clinical Investigation, Faculty of Medicine and Autoimmune and Autoinflammatory Chronic Diseases, Master in Translational Biomedical Research, University of Cordoba. From October 2016

#### SCIENTIFIC OR TECHNOLOGICAL ACTIVITY

1. Participation in groups I+D+I: 3 (Ciberobn, PAIDI CTS-234 and PAIDI CTS-1004)
2. Participation in projects I+D+I: 30 (26 nationals + 4 european; 5 as principal investigator)
3. Scientific production: H index: 18, Sum of times I have been cited: 929, total impact factor: 238.5
4. Scientific publications: 46 (19 as main author). Best 5 scientific publications:

☐ Arterioscler Thromb Vasc Biol. 2014 Dec;34(12):2706-16. IF: 6.00 D1

☐ Ann Rheum Dis. 2015 Jul;74(7):1441-9. IF: 12.38 D1

☐ Ann Rheum Dis. 2015 Jul;74(7):1450-8. IF:12.38 D1

☐ Diabetes. 2015 Apr;64(4):1180-92. IF: 8.78 D1

☐ Blood. 2012 Jun 14;119(24):5859-70. IF: 9.06 D1

5. Participation in Congresses: 102

6. Awards: 13. Best oral presentations in International and National congresses and best articles.

7. Stays in Centres I+D+I: 4 years (2 years in IMABIS Foundation, Virgen de la Victoria Hospital, Malaga, Spain and 2 years in Institute Metabolic Science, University of Cambridge, Cambridge, UK)

8. Experience as scientific reviewer of Leukemia, Leukemia and Lymphoma, Obesity and Journal of Internal medicine.

9. Competitive grants and scholarship obtained: 3 grants: Josep Carreras Foundation, Consejería de Salud, Junta de Andalucía and Consejería de Economía, Innovación y Ciencia: 2 contracts from the Institute of Health Carlos III (Sara Borrell and Miguel Servet).

10. Intellectual and industrial property: 3 patents:

☐ Circulating miRNAs as biomarkers of Primary Antiphospholipid Syndrome, nº application P201630725, Date: 2016

☐ Circulating miRNAs in exhaled breath condensate as biomarkers for the diagnosis of lung cancer, Date: 2016

☐ Circulating miRNAs as biomarkers of therapy effectiveness in Rheumatoid Arthritis patients treated, nº



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**Nombre:** MORENO GUTIERREZ, JUAN ANTONIO

**Referencia:** RYC-2017-22369

**Área Científica:** Medicina Clínica y Epidemiología

**Correo Electrónico:** jamoreno@fjd.es

#### Título:

Biomarkers, mechanism and risk factors in vascular and renal diseases

#### Resumen de la Memoria:

My thesis at Cordoba University (winner of the university's Outstanding PhD Award) focused on how the human genetic background determines the metabolic response to diet and unmasked some of the molecular mechanisms by which nutrients regulate processes associated to the pathogenesis of atherosclerosis. During this time, I participated in a FP6 project and collaborated with researchers at Aix-Marseille University (France) and Tufts University (Boston) and published 30 papers in high impact factor journals (J Am Coll Cardiol, Diabetes, etc).

In 2006, I was awarded a Sara Borrell fellowship to work as a postdoctoral researcher at Fundación Jimenez Diaz, Madrid. During this fellowship, I studied the pathological role of some molecules (TWEAK/Fn14/CD163) in vascular and renal damage and evaluated their therapeutic targeting. In collaboration with researchers from Odense Hospital (Denmark), Karolinska Institute (Sweden) and Gülhane School of Medicine (Turkey), we demonstrated that these molecules may serve as novel diagnostic/prognostic biomarkers in these pathologies. In 2008, I continued my research at INSERM 698 (Paris, France), where I made relevant discoveries on how inflammatory cells contribute to atherosclerotic plaque destabilization and implemented novel therapeutic approaches based on the use of modified high-density lipoproteins. As a postdoc, I published 17 articles in relevant scientific journals (Eur Heart J, FASEB J, among others) and 2 book chapters.

In 2011, I took on the role of Senior Researcher at the Fundación Jimenez Diaz, supported by the highly competitive Miguel Servet research contract. My group is interested in understanding the pathological role of hemoproteins in vascular and renal diseases to discover novel therapeutic targets and clinic biomarkers. To that, I have established strong and productive collaborations with researchers at Paris Diderot Faculty of Medicine (France), University of Illinois (USA) and University of Debrecen (Hungary). Our results show the existence of a novel anti-inflammatory macrophage subtype involved in hemoglobin (Hb)-clearance and identified podocytes as novel cellular targets of Hb-mediated toxic effects. We are currently developing a test to identify podocyte injury in the urine of patients with severe hemolysis (patent in preparation). We developed in vivo non invasive imaging techniques to characterize the presence of macrophage subtypes in vascular and renal lesions for diagnostic. Moreover, I have established a scientific network that has propelled haematuria to the forefront of clinical nephrology. I have published 21 articles as corresponding author, supervised 2 doctoral theses and 4 master's dissertations and I act as supervisor of another 6 doctoral students and 1 postdoctoral Sara Borrell researcher. Principal investigator of 10 research projects, 4 of which were supported by the Carlos III Health Institute. I also work with 2 international biotechnological companies (Pharmalink AB (Sweden) and Biogen Idc (USA)) to validate novel therapeutic approaches to disease. I have received 15 research awards from different societies and foundations, including awards from the European Society of Atherosclerosis, the Spanish Society of Nephrology and Luis Hernando-FRIAT to the best Iberoamerican young researcher in nephrology.

#### Resumen del Currículum Vitae:

##### EDUCATION

- Undergraduate degrees in biochemistry (2000) and biology (2003). Cordoba University.
- PhD (Outstanding/cum laude). Cordoba University (2005).

##### POSTDOCTORAL POSITIONS

- 2006-2008, Sara Borrell researcher at IIS-Fundación Jiménez Díaz, Madrid.
- 2008-2010, Research fellow, INSERM 698, Paris, France
- 2010-2011, Postdoctoral researcher, Autonoma University, Madrid
- 2011-2018, Principal Investigator (Miguel Servet), IIS-Fundación Jiménez Díaz, Madrid

##### PUBLICATIONS

87 scientific articles (61 first quartile/decile), 20 as first author, 21 as corresponding/last author and 2 book chapters. Cumulative impact factor: 340; H-index: 28. Articles in the first decile: Diabetes 2002.51(8):2596-603; Diabetologia 2002.45:1196-200; Am J Clin Nutr 2003.77: 809-13; Am J Clin Nutr 2004.80:1404-9; J Am Coll Cardiol 2005.46:1864-8; Curr Med Chem 2008;15:1645-54; FASEB J 2009;23:3129-39; Arterioscler Thromb Vasc Biol 2009;29:2061-8; Arterioscler Thromb Vasc Bio. 2010; 30:1253-62; Clin J Am Soc Nephrol. 2010;5:1174-81; J Am Soc Nephrol 2010. 21: 1254-62; J Am Soc Nephrol. 2011; 22:1315-25; Eur Heart J 2012;33:252-63; Expert Opin Ther Targets



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2012;16:833-45. Clin J Am Soc Nephrol 2012;7:175-84; Expert Rev Mol Med. 2014;16:e3; Theranostics. 2016;6:896-914, J Pathol. 2017 Dec 4.

#### RESEARCH PROJECTS

I have collaborated in 24 research projects founded by National Research Organizations (MEC-MINECO, Carlos III Health Institute and the Spanish Agency for International Cooperation) and the European Union (6th and 7th Framework Programmes, among others). Principal investigator in 10 research projects, 4 supported by the Carlos III Health Institute (CP10/00479, PI13/00802, PI14/00883, PI17/00130)), Spanish Societies of Atherosclerosis-2013, Nephrology-2014 and -2017 and Iñigo Alvarez de Toledo Renal Foundation 2015; as well as 2 projects undertaken with international biotechnological companies.

#### AWARDS/FELLOWSHIPS

CAJASUR Predoctoral fellowship, 2001  
Predoctoral fellowship from the Andalusia regional government, 2002  
Postdoctoral Sara Borrell fellowship from the Carlos III Health Institute 2006  
Outstanding PhD Award granted by the Cordoba University, 2006  
3 awards from the Spanish Society of Atherosclerosis (2001, 2009 and 2014)  
Young Investigator Award from the European Society of Atherosclerosis, 2007  
Basic/Experimental Nephrology Research Award from Iñigo Álvarez de Toledo Foundation, 2009  
Postdoctoral Miguel Servet fellowship from the Carlos III Health Institute 2010  
XXI Basic Research Award JANSSEN @ CILAG, Spanish Society of Nephrology, 2012  
Basic Research Awards in Nephrology, Spanish Society of Nephrology, 2014 and 2017  
Luis Hernando Award from Iñigo Álvarez de Toledo Renal Foundation, 2015

Member of the National Network on Cardiovascular Diseases (CIBERCV), Spanish Society of Atherosclerosis, Spanish Society of Nephrology, and the Immunonephrology Working Group of the European Renal Association. Professor in master's programs conducted at Cordoba University and the Autonoma University Madrid. Invited speaker for international conferences, 102 works submitted to national and international scientific meetings. Expert reviewer for the Israel Science Foundation and international journals. Supervisor for 4 master's dissertations, 2 PhD theses (I am supervising another 6 ongoing theses and 1 postdoctoral Sara Borrell researcher).



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**Nombre:** TURNER , MICHELLE  
**Referencia:** RYC-2017-21721  
**Área Científica:** Medicina Clínica y Epidemiología  
**Correo Electrónico:** michelle.turner@isglobal.org

#### Título:

Environmental and occupational risk factors for cancer and chronic disease

#### Resumen de la Memoria:

My primary research area is examining environmental and occupational determinants of cancer and other chronic disease including long-term ambient air pollution exposures, both residential (radon, mobile phones) and occupational (extremely low frequency magnetic fields (ELF), uranium) radiation, as well as occupational exposure to chemicals and night shift work to inform policy making.

My doctoral research examined associations between both residential radon and fine particulate matter air pollution (PM<sub>2.5</sub>) exposure and lung cancer mortality in the large-scale American Cancer Society Cancer Prevention Study-II prospective cohort comprised of 1.2 million participants followed since 1982. I have also lead work in several large-scale analyses examining interactions between PM<sub>2.5</sub> and cigarette smoking for both lung cancer and cardiovascular mortality; associations of long-term ambient O<sub>3</sub> and cardiovascular and respiratory mortality; and associations of ambient air pollution and non-lung cancer mortality at 29 cancer sites. Current work to examine associations of ambient air pollution and both bladder and colorectal cancer incidence in two large Spanish case-control studies is ongoing. I recently served as co-author of the upcoming U.S. Environmental Protection Agency Integrated Science Assessment for Particulate Matter section on the effects of ambient PM exposure.

My postdoctoral research assessed the potential role of occupational extremely low frequency magnetic fields (ELF) and selected chemical exposures as well as their interactions for glioma and meningioma risk in the seven-country INTEROCC study. There was a unique opportunity to further clarify the role of occupational agents in the etiology of brain tumours using data from a large, multi-national case-control study. I received an American Brain Tumor Association Junior Investigator Award for this work. Currently, work is underway investigating associations between occupational radiofrequency (RF) and intermediate frequency (IF) exposures based on source exposure matrices (SEMs) and risk of glioma and meningioma as Work Package Leader in the 5-year (2014-2019) European FP7 GERoNiMO project.

I have conducted methodological research in studies of mobile phones and cancer risk. I am also involved in several projects to examine the potential health cancer risk of occupational night shift work including in the MCC-Spain study of five common cancers conducted in 12 regions of Spain. In the Hormonit Study, examining hormonal changes associated with circadian disruption in a series of automotive shift workers in Barcelona, Spain, I am examining interactions between occupational ELF and night shift work.

Most recently, I was elected as Vice-Chair, Grant Holder, and Management Committee Member for Spain, of the 25 country European COST Action CA16216 "Coordination and Harmonization of European Occupational Cohorts (OMEGA-NET)". This 4 year (2017-2021) project seeks to create a network to optimize the use of occupational, industrial, and population cohorts in Europe. During this work we will inventory numerous cohorts with occupational information in Europe; facilitate work on harmonization of occupational exposure and health outcome information; and develop new protocols for data collection in studies in Europe as well as with other international partners.

#### Resumen del Currículum Vitae:

My primary research interest is examining potential environmental and occupational determinants of cancer and other chronic diseases focusing on ambient air pollution; ionizing and non-ionizing radiation; chemical exposures; and circadian disruption in large-scale studies to inform policy making.

My PhD in Population Health, University of Ottawa, Canada, examined associations between both residential radon and fine particulate matter air pollution (PM<sub>2.5</sub>) exposure and lung cancer mortality in the large-scale Cancer Prevention Study-II (CPS-II). I was also co-instructor of two graduate level courses, Population Health Risk Assessment I and II, in the Department of Epidemiology and Community Medicine.

My postdoctoral research conducted at the Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain, examined the role of occupational exposure to extremely low frequency magnetic fields (ELF) and selected chemical exposures for brain tumor risk in the seven-country INTEROCC study. I received funding from a prestigious Government of Canada Banting Postdoctoral Fellowship and a CIHR Fellowship (rank 1 out of 1.119) for this work. I also received a Junior Investigator Award from the American Brain Tumor Association.



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Currently I am an Assistant Research Professor at the Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain. I have lead several large-scale investigations into the mortality health impacts of long-term ambient air pollution exposure. I have worked with the U.S. Environmental Protection Agency in support of air quality regulations. I recently served as Member of a National Institute of Environmental Health Sciences (NIEHS) Working Group on the State-of-the-Art of External Exposure Assessment.

Currently I am Work Package Leader examining occupational electromagnetic field exposures and risks to health in the 19 country European Geronimo (Generalised EMF Research Using Novel Methods) study, coordinated by ISGlobal (5.9 million €) (2014-2019). Most recently, I was unanimously elected Vice-Chair, Grant Holder, and Management Committee Member for Spain, of the 25 country European COST Action CA16216 "Coordination and Harmonization of European Occupational Cohorts (OMEGA-NET)". This 4 year (2017-2021), 520.000 € project seeks to create a network to optimize the use of occupational, industrial, and population cohorts by increasing collaboration of existing cohorts, coordinating and harmonizing occupational exposure assessment efforts, and facilitating an integrated research strategy for occupational health in Europe.

Finally, I have examined associations of night-shift work and cancer risk in the MCC-Spain study, a case-control study conducted in 12 regions of Spain, as well as interactions between occupational ELF and night shift work in the Hormonit Study conducted in automotive workers in Barcelona, Spain.

I have published over 80 manuscripts in peer-reviewed journals. I have presented findings at numerous international conferences. I am on the editorial board of two international journals. I was Vice-Chair of the 25th Epidemiology in Occupational Health Conference (EPICOH) held in Barcelona, Spain in 2016 and am currently on the Technical Organizing Committee of the Joint International Society of Exposure Science and International Society for Environmental Epidemiology 2018 meeting.



## AYUDAS RAMÓN Y CAJAL CONVOCATORIA 2017

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**Nombre:** PADIAL MOLINA, MIGUEL  
**Referencia:** RYC-2017-23784  
**Área Científica:** Medicina Clínica y Epidemiología  
**Correo Electrónico:** mipadial@ugr.es

#### Título:

The role of matricellular molecules and inflammation in the periodontal tissues

#### Resumen de la Memoria:

My research interests are focused on the translational study of the molecular mechanisms of matricellular molecules in periodontal ligament homeostasis and regeneration, periodontal disease pathogenesis (the main cause of bone loss in the dental arches), and its potential link with systemic diseases, specifically cardiovascular disease. In this line, I have participated in several clinical and pre-clinical studies.

My clinical skills, leading potential, abilities to obtain funding and to conduct translational research and my deep understanding of the biologic processes and basic laboratory procedures in my field have allowed me to participate as principal or co-investigator in several research projects in bone regeneration and periodontal biology. I was involved in the study of the matricellular molecules implicated in those processes. Specifically, periostin is a protein highly abundant in the periodontal ligament with important roles in the periodontal disease status and healing after surgery. I conducted several in vitro and animal studies that, overall, confirmed that periostin expression by periodontal ligament cells: 1) is needed for periodontal homeostasis, 2) improves cell migration and proliferation potential and activates cell survival signalling pathways, 3) supports early periodontal tissue maturation and wound healing in vivo, 4) is reduced by bacterial byproducts and pro-inflammatory cytokines (main etiologic factors of periodontal disease), and 5) is increased in serum of patients with periodontal disease but it is reduced after periodontal treatment.

Periostin is not normally found in blood vessels and systemic circulating levels are low in health. However, it is present in atheroma plaques, maybe under the influence of periostin released from other diseased locations, as I started to analyse with funds from the University of Michigan. Later, based on these premises and supported with my previous findings, I proposed and got funding to conduct a clinical study on the role of periostin in the interaction between periodontal and atherosclerotic diseases. I hypothesised that the treatment of periodontal disease could reduce the release of periostin into the blood stream with the potential to improve the atherosclerotic condition. I am currently developing these studies at the University of Granada thanks to funds from the Marie Skłodowska-Curie actions (COFUND Grant Agreement nº 291780).

Future projects include deepening in the understanding of the role of inflammatory processes involved in atherogenesis and periodontal disease in the post-translational activity of the different isoforms of periostin. The ultimate goal, in accordance with the Horizon 2020 main objectives, is that this research contributes to a paradigm shift and helps to establish new prevention and treatment protocols for both conditions, two of the most common, debilitating and costly diseases in Europe.

Additionally, I'm currently also exploring the role of Periostin in bone homeostasis and regeneration given its link with other important regulators of mesenchymal stromal cell activities.

#### Resumen del Currículum Vitae:

After I obtained my degree in Dentistry, I executed my PhD training, successfully defended in 2010 and later recognised with the Special Doctorate Award. I also worked as a self-employed dentist in several private dental practices. I moved to the University of Michigan (world's top 1 in Dentistry) supported by a Talentia Scholarship to continue my specialised training in clinical and preclinical research in Periodontics. After finishing my postdoctoral training, I was appointed as Research Fellow. I participated and coordinated several research projects that were public (NIH) and privately (Osteology Foundation, ITI Foundation) funded with approximately \$1.7mill. I also received specialised training in clinical research, statistical methods, ethics, leadership and teaching. In late 2014, I obtained funds from the Marie Skłodowska-Curie COFUND Actions (154566) to move back to Spain where I have transitioned to independency, secured a lab space and more than 175000 in research funds from different bodies and private companies.

With a main translational focus on the cellular and molecular aspects of periodontal homeostasis, disease pathogenesis and regeneration as well as the link with systemic diseases, specially cardiovascular, I have co-authored more than 40 publications in the first quartile (48%) and as first author (28%), some of them (Nature Protocols) with impact factor well above the highest of my main JCR category. In fact, my bibliometrics indicate higher impact relative to world (0.921), journal (1.20) and category (1.26) normalised citation impact, % of cited documents (93.10%), % of documents in Top 10% (17.24%) and % of international collaborations (68.97%) compared to my JCR category of reference (Dentistry, Oral Surgery & Medicine) (0.786, 0.97, 0.97, 58.98, 8.37 and 12.25, respectively). My h index is 18 and I have received more than 740 cites. I act as reviewer ad hoc in 18 journals. I have received more than 500 hours of continuing education and attended more than 100 courses and national and international meetings and conferences. I have presented 107 reviewed scientific communications (45% as "Oral" presentation; 28% as first author) and 15 as Invited speaker. I am the recipient of 22 Research Awards including the Best Scientific Article of the Year in 2013, 2015 and 2017 (Spanish Society of Oral Surgery).

I have taught more than 150 hours at the University of Granada, the University of Michigan and the International University of Andalusia,



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and more 76 credits on continuing education. I have mentored 1 PhD Thesis, 8 Master's Thesis and 8 Graduation Projects; another 2 PhD Thesis, 5 Master's Thesis and 4 Graduation projects are currently ongoing. I have received more than 350 hours of training in teaching methodologies. I am the coauthor of diverse written and multimedia teaching materials and have participated and directed several Teaching Innovation Projects. My teaching activities have received a qualification of 4.7/5.0, clearly above the Dental degree and University averages.

I am an active member in 7 scientific societies, member of the Board of Directors of the Spanish Congress of Oral Implantologists, member of the Scientific Committee of the Spanish Society of Oral Surgery and former Coordinator of the Andalusian Talenta Network.