



## Silvia Guil Luna

### Personal information

First Name *	Silvia		
Family Name *	Guil Luna		
Sex *	Female	Date of Birth *	21/04/1984
ID number Social Security, Passport *	30980844M	Phone Number *	(0034) 957435905
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Email Address	<a href="mailto:v22gulus@uco.es">v22gulus@uco.es</a>		
Researcher's identification number	Open	0000-0001-7542-3903	
	Researcher ID	AAI-2005-2019	
	Scopus Author	26632922000	

### Current position

Job Title	Postdoctoral Researcher (UCO-FEDER Program)
Starting date	2021
Institution	Maimónides Institute of Biomedical Research of Córdoba/University of Córdoba

### Previous positions

Period	Job Title / Name of Employer / Country
2021 - 2021	Postdoctoral Researcher (Senior Modality Junta de Andalucía RH-0062-2020) / Maimónides Institute of
2020 - 2021	Postdoctoral Researcher / Maimónides Institute of Biomedical
2018 - 2020	Juan de la Cierva-Incorporación Postdoctoral Researcher / Maimónides Institute of
2016 - 2018	Juan de la Cierva-Formación Postdoctoral Researcher / Maimónides Institute of
2015 - 2015	Postdoc researcher / University of Córdoba / Spain
2014 - 2015	Associate Professor / Veterinary Faculty of Valencia, CEU-UCH / Spain
2014 - 2014	Postdoctoral researcher / University of Córdoba



2013 - 2014	Postdoctoral Researcher / University of Córdoba- Plan Propio
2011 - 2013	Predoctoral Researcher with FPU grant / Veterinary Faculty, University of Córdoba /
2009 - 2011	Postgraduated PhD with FPU grant / Veterinary Faculty, University of Córdoba / Spain
2008 - 2009	Predoctoral researcher / University of Córdoba
2008 - 2008	Postgraduated contributing Student / University of Dublin / Ireland
2007 - 2008	Predoctoral contributing student / University of Córdoba /

## Education

Degree/Master/PhD	University / Country	Year
PhD in Biosciences and Agrifood Sciences	University of Córdoba / Spain	2013
Master Degree in Medicine Veterinary , Animal Health, and Breeding	University of Córdoba / Spain	2008
Medicine Veterinary Degree	University of Córdoba / Spain	2007

## CV Summary

My degree in Veterinary Medicine in 2007 (Outstanding Graduation Award) allowed me to develop my career in the framework of comparative oncology by using animal models. In 2016, I was awarded with a competitive PhD Fellowship from the Spanish Ministry of Education within the Programme for University Lecturer Formation (FPU) to perform my doctoral thesis focused on the study of canine mammary tumors as natural models for breast cancer. During my predoctoral training, I performed research stays at the University of Torino (2 months), University of Copenhagen, Denmark (3 months), at University of Zurich, Switzerland (2 months) and at the University of Uppsala, Sweden (0.5 months). From my thesis (Outstanding PhD Award from the University of Córdoba (UCO)), I published as first author 5 high impact factor- papers (2 of them in D1, 2 in Q1 and 1 in Q2) four of them with international collaborations. I taught different subjects in Pathology obtaining a Teaching qualification of 4.8 out of 5 as an associated professor at the Veterinary Faculty of the CEU Cardenal Herrera in Valencia and at the University of Córdoba. After that, I have been working at the Maimonides Institute for Biomedical Research of Córdoba for 5 years, the two first years with the postdoctoral fellowship “Juan de la Cierva – Formacion” and the next two years with the postdoctoral fellowship “Juan de la Cierva – Incorporación”. During my postdoctoral career, I have performed several research stays at prestigious centers with competitive funding: University of Montreal (Canada) funded by the Ministry of Health of the Junta de Andalucía (2019); Peter MacCallum Cancer Center in Australia funded by European Travel Fellowship from the European Association of Cancer Research (2018); Institute Curie in Paris under a Jose Castillejo Mobility Grant from the Spanish Ministry of



Education (2017); Vall d'Hebron Institute of Oncology in Barcelona, Spain) (2016); and University of Surrey in United Kingdom (2015). I have published 40 articles (18 first/second or last author), 11 are in D1 and 26 in Q1, including one review published in Trends in Immunology (D1, IF: 16.7) as second author and my H-index is 11. One third of my publications have been co-authored with international collaborations thanks to my different research stays (22 months in total). I have co-authored 70 communications (35 in national and 35 in international meetings) and been involved in 16 Competitive National projects and 6 private company projects. I am the principal investigator of two projects from the Andalusian Council of Health (60.000 €) and from UCO-Feder (35.000€) which has allowed me to generate my own research line in humanized murine models (AVATAR models) for research in immuno-oncology. In addition, I have directed or currently directing 6 postgraduated Thesis, 6 Master Final projects and 3 doctoral Thesis. I have been invited as a speaker in 3 National workshops, one of them from the Biomedical Research Networking of Carlos III Health Institute (CIBERONC). Recently I have received the 13 certification (13/2019/828) from the Spanish Ministry of Education and Science. I am accredited with ANECA PhD Lecturer.

## Relevant accomplishments

### Publications

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

- 1 Scientific paper. Mena-Osuna R; Guil-Luna S (AC); Mantrana A; et al; Rodriguez-Ariza A. (2/13). 2022. Metabolic reprogramming induced by S-nitrosoglutathione reductase deficiency contributes to tumor progression and immune evasion in colorectal cancer (under review) REDOX Biology.
- 2 Scientific paper. Guil-Luna S (AC); Mena-Osuna R; Navarrete-Sirvent C; et al; Rodriguez-Ariza A. (1/11). 2020. Association of colorectal tumour budding with immune evasion pathways in clinical tumours and their corresponding PDX models FRONTIERS IN MEDICINE. MDPI. ISSN 2072-6694. <https://doi.org/10.3389/fmed.2020.00264>
- 3 Scientific paper. Lopez-Sanchez, Laura M.; Jimenez-Izquierdo, Rafael; Penarando, Jon; et al; Guil-Luna, Silvia; Rodriguez-Ariza, Antonio. (5/13). 2019. SWATH-based proteomics reveals processes associated with immune evasion and metastasis in poor prognosis colorectal tumours JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. WILEY. 23-12, pp.8219-8232. ISSN 1582-4934. WOS (0) <https://doi.org/0.1111/jcmm.14693>
- 4 Scientific paper. Fernandez-Bedmar, Zahira; Anter, Jaouad; Alonso-Moraga, Angeles; Delgado de la Torre, Pilar; Luque de Castro, Maria Dolores; Millan-Ruiz, Yolanda; Sanchez-Frias, Marina; Guil-Luna, Silvia (AC). (8/8). 2019. Red and White Wine Lees Show Inhibitory Effects on Liver Carcinogenesis MOLECULAR NUTRITION & FOOD RESEARCH. WILEY. 63-9. ISSN 1613-4125. WOS (0) <https://doi.org/10.1002/mnfr.201800864>
- 5 Scientific paper. Lopuszynski, Wojciech; Szczubial, Marek; Millan, Yolanda; Guil-Luna, Silvia; Sanchez-Cspedes, Raquel; Martin de las Mulas, Juana; Smiech, Anna; Bulak, Kamila. (4/8). 2019. Immunohistochemical expression of p63 protein and



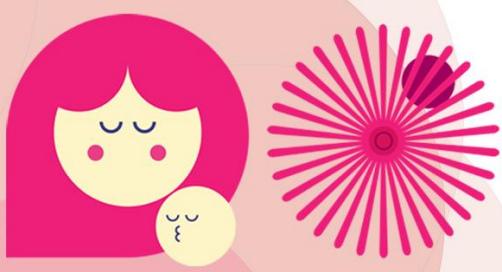
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- calponin in canine mammary tumours RESEARCH IN VETERINARY SCIENCE. ELSEVIER SCI LTD. 123, pp.232-238. ISSN 0034-5288. WOS (0) <https://doi.org/10.1016/j.rvsc.2019.01.017>
- 6 Scientific paper. Maniscalco, Lorella; Guil-Luna, Silvia; Iussich, Selina; et al; De Maria, Raffaella. (3/11). 2019. Expression of the Short Form of RON/STK in Feline Mammary Carcinoma VETERINARY PATHOLOGY. SAGE PUBLICATIONS INC. 56-2, pp.220-229. ISSN 0300-9858. WOS (0) <https://doi.org/10.1177/0300985818806967>
- 7 Scientific paper. Peñarando J.; Lopez-Sánchez L; Cañas A.; et al; Guil-Luna S.; Rodríguez Ariza A.(5/13). 2018. A role for endothelial nitric oxide synthase in intestinal stem cell proliferation and mesenchymal colorectal cancer BMC BIOLOGY. BMC. ISSN 1741-7007. <https://doi.org/10.1186/s12915-017-0472-5>
- 8 Review. Guil-Luna S (AC); Sedik C; Piaggio E. (1/3). 2020. Humanized mouse models to evaluate cancer immunotherapeutics ANNUAL REVIEWS OF CANCER BIOLOGY. ANNUAL REVIEWS. ISSN 2472-3428. <https://doi.org/10.1038/s41374-020-00507-z>
- 9 Scientific paper. Guil-Luna S (AC); Navarrete C; Mantrana A; et al; Rodríguez-Ariza A. (1/14). 2022. Targeting of glycogen synthase 3 (GSK-3) as an effective therapeutic strategy against tumor budding and immune evasion in colorectal cancer (under review) Journal of Immunotherapy of Cancer.
- 10 Scientific paper. Ruedas-Torres I; Rodríguez-Gómez IM; Sánchez-Carvajal JM; Guil-Luna S; Lorenas-Muñoz F; Pallarés FJ; Carrasco L; Gómez-Laguna J. 2021. Up-regulation of Immune checkpoints in the thymus of PRRSV-1-infected piglets in a virulence dependent fashion (under review) Veterinary Microbiology. <https://doi.org/10.3389/fimmu.2021.671743>
- 11 Scientific paper. Toledano M; Cano T; Inga E.; et al; Aranda E. 2021. The combination of neutrophil-lymphocyte ratio (NLR) and platelet-lymphocyte ratio (PLR) with liquid biopsy biomarkers improves prognosis prediction in metastasis pancreatic cancer CANCERS. <https://doi.org/10.3390/cancers13061210>
- 12 Scientific paper. Lopez-Sánchez LM; Mena R; Guil-Luna S; et al; Rodríguez Ariza A. (3/10). 2020. Nitric oxide-targeted therapy inhibits stemness and increases the efficacy of tamoxifen in estrogen receptor-positive breast cancer cells LABORATORY INVESTIGATION. eJournalPress. ISSN 1530-0307. [https://doi.org/doi:10.1038/s41374-020-00507-z](https://doi.org/10.1038/s41374-020-00507-z)
- 13 Scientific paper. Toledano-Fonseca M; Cano MT; Inga E; et al; Aranda E. 2020. Circulating Cell-Free DNA-Based Liquid Biopsy Markers for the Non-Invasive Prognosis and Monitoring of Metastatic Pancreatic Cancer CANCERS. MDPI. 1-12. <https://doi.org/10.3390/cancers12071754>.
- 14 Scientific paper. Deborah Chicharro-Alcántara; Jose María Carrillo; Mónica Rubio; et al; Silvia Guil-Luna; Joaquin J.(5/10). 2018. Combined plasma rich in growth factors and adipose - derived mesenchymal stem cells promotes the cutaneous wound



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- healing in rabbits BMC VETERINARY RESEARCH. BMC. 14. ISSN1746-6148.  
<https://doi.org/10.1186/s12917-018-1577-y>
- 15 Scientific paper. Sanchez-Cespedes, Raquel; Millan, Yolanda; Guil-Luna, Silvia; Garcia-Macias, Jesus; Maniscalco, Lorella; Iussich, Selina; De Maria, Raffaella; de las Mulas, Juana M.(3/8). 2018. Immunohistochemical and quantitative RT-PCR methods to assess RANK expression in normal and neoplastic canine mammary gland JOURNAL OF VETERINARY DIAGNOSTIC INVESTIGATION. SAGE PUBLICATIONS INC. 30-1, pp.155-160. ISSN 1040-6387. <https://doi.org/10.1177/1040638717735867>
- 16 Scientific paper. Fernandez-Bedmar, Zahira; Anter, Jaouad; Alonso-Moraga, Angeles; de las Mulas, Juana Martin; Millan-Ruiz, Yolanda; Guil-Luna, Silvia (AC). (6/6). 2017. Demethylating and anti-hepatocarcinogenic potential of hesperidin, a natural polyphenol of Citrus juices MOLECULAR CARCINOGENESIS. WILEY. 56-6, pp.1653-1662. ISSN 0899-1987. WOS (4) <https://doi.org/10.1002/mc.22621>
- 17 Scientific paper. Guil-Luna, S. (AC); Millan, Y.; De Andres, J.; Rollon, E.; Domingo, V.; Garcia-Macias, J.; Sanchez-Cespedes, R.; Martin de las Mulas, J.(1/8). 2017. Prognostic impact of neoadjuvant aglepristone treatment in clinicopathological parameters of progesterone receptor-positive canine mammary carcinomas VETERINARY AND COMPARATIVE ONCOLOGY. WILEY. 15-2, pp.391-399. ISSN 1476-5810. WOS (2) <https://doi.org/10.1111/vco.12175>
- 18 Scientific paper. Valverde, Araceli; Penarando, Jon; Canas, Amanda; et al; Guil-Luna, Silvia; Rodriguez-Ariza, Antonio. (6/12). 2017. The addition of celecoxib improves the antitumor effect of cetuximab in colorectal cancer: role of EGFR-RAS-FOXM1-beta-catenin signaling axis ONCOTARGET. IMPACT JOURNALS LLC. 8-13, pp.21754-21769. ISSN1949-2553. WOS (6) <https://doi.org/10.18632/oncotarget.15567>
- 19 Scientific paper. Alonso-Moraga A; Merinas-amo T; Mateo-Fernandez; et al; Fernandez-Bedmar Z.2016. Wine Lees: A possible agent in the epigenetic therapy against the pathocarcinogenesis. TOXICOLOGY LETTERS. 09-258. <https://doi.org/doi.org/10.1016/J.TOXLET.2016.06.1422>.
- 20 Scientific paper. Guil-Luna S. (AC); Millán Y.; Sanchez-Céspedes R.; Martín de las Mulas J.(1/4). 2015. Comparative aspects between canine and human mesenchymal tumors SARCOMA RESEARCH INTERNATIONAL. Austin Publishing Group. 11. ISSN2575-7024.
- 21 Scientific paper. Guil-Luna, Silvia (AC); Stenvang, Jan; Brnner, Nils; et al; Martn De las Mulas, Juana. (1/9). 2014. Progesterone receptor isoform A may regulate the effects of neoadjuvant aglepristone in canine mammary carcinoma BMC VETERINARY RESEARCH. BMC. 10. ISSN 1746-6148. WOS (3) <https://doi.org/10.1186/s12917-014-0296-2>
- 22 Scientific paper. Guil-Luna, S. (AC); Stenvang, J.; Brunner, N.; Sanchez-Cespedes, R.; Millan, Y.; Gomez-Laguna, J.; Martin de las Mulas, J.(1/7). 2014. Progesterone Receptor Isoform Analysis by Quantitative Real-Time Polymerase Chain Reaction in



- Formalin-Fixed, Paraffin-Embedded Canine Mammary Dysplasias and Tumors  
VETERINARY PATHOLOGY. SAGE PUBLICATIONS INC. 51-5, pp.895-902. ISSN  
0300-9858. WOS (2) <https://doi.org/10.1177/0300985813511127>
- 23 Scientific paper. Guil-Luna S (AC); Cardoso-Toset F.; Gómez-Gascón L; Ruíz P; De Andrés J; Luque-Moreno I.; Martín de las Mulas J.; Millán Y.(1/8). 2014. Micobacteriosis fatal en perros Schnauzer miniatura cosanguíneos: Primera descripción en España AVEPA. IceSaludVet. ISSN 1130-7064.
- 24 Scientific paper. Guil-Luna, Silvia (AC); Hellmen, Eva; Sanchez-Cespedes, Raquel; Millan, Yolanda; Martin de las Mulas, Juana. (1/5). 2014. The antiprogesterins mifepristone and onapristone reduce cell proliferation in the canine mammary carcinoma cell line CMT-U27 HISTOLOGY AND HISTOPATHOLOGY. F HERNANDEZ. 29-7, pp.949-955. ISSN 0213-3911. WOS (3) <https://doi.org/10.14670/HH-29.949>
- 25 Scientific paper. Sanchez-Cespedes, R.; Maniscalco, L.; Iussich, S.; Martignani, E.; Guil-Luna, S.; De Maria, R.; Martin de las Mulas, J.; Millan, Y.(5/8). 2013. Isolation, purification, culture and characterisation of myoepithelial cells from normal and neoplastic canine mammary glands using a magnetic-activated cell sorting separation system VETERINARY JOURNAL. ELSEVIER SCI LTD. 197-2, pp.474-482. ISSN 1090-0233. WOS (7) <https://doi.org/10.1016/j.tvjl.2013.03.005>
- 26 Scientific paper. Guil-Luna, Silvia (AC); Carrasco, Librado; Gomez-Laguna, Jaime; Hilbe, Monika; Minguez, Juan J.; Koehler, Kernt; Martin de las Mulas, Juana. (1/7). 2013. Primary central nervous system T-cell lymphoma mimicking meningoencephalomyelitis in a cat CANADIAN VETERINARY JOURNAL-REVUE VETERINAIRE CANADIENNE. CANADIAN VET MED ASSOC. 54-6, pp.602-605. ISSN 1928-9022. WOS (3)
- 27 Scientific paper. Lucena R.; Guil-Luna S.; Blanco; Ginel PJ.(2/4). 2013. Assesment of serum hepatic profiles of healthy dogs receiving ursodeoxycholic acid AUSTRALIAN VETERINARY PRACTITIONER. 43, pp.410-413. ISSN 0310-138X.
- 28 Scientific paper. Sanchez-Cespedes, R.; Suarez-Bonnet, A.; Millan, Y.; Guil-Luna, S.; Reymundo, C.; Herraiz, P.; Espinosa de los Monteros, A.; Martin de las Mulas, J.(4/8). 2013. Use of CD10 as a marker of canine mammary myoepithelial cells VETERINARY JOURNAL. ELSEVIER SCI LTD. 195-2, pp.192-199. ISSN 1090-0233. WOS (6) <https://doi.org/10.1016/j.tvjl.2012.06.003>
- 29 Scientific paper. Gomez-Laguna, J.; Barranco, I.; Rodriguez-Gomez, I. M.; Blanco, B.; Guil-Luna, S.; Carrasco, L.; Martin de las Mulas, J.2012. Malignant Mesenchymoma of the Heart Base in a Dog with Infiltration of the Pericardium and Metastasis to the Lung JOURNAL OF COMPARATIVE PATHOLOGY. ELSEVIER SCI LTD. 147-2-3, pp.195-198. ISSN 0021-9975. WOS (6) <https://doi.org/10.1016/j.jcpa.2012.01.002>
- 30 Scientific paper. Sanchez-Cespedes, R.; Millan, Y.; Guil-Luna, S.; Garcia-Monterde, J.; Reymundo, C.; Espinosa de los Monteros, A.; Martin de las Mulas, J.2011. Myoepithelial Cell Layer Integrity in Canine Mammary Carcinoma JOURNAL OF COMPARATIVE



PATHOLOGY. ELSEVIER SCI LTD. 145-1, pp.25-30. ISSN 0021-9975. WOS (9)  
<https://doi.org/10.1016/j.jcpa.2010.11.006>

31 Scientific paper. Guil-Luna, S. (AC); Sanchez-Cespedes, R.; Millan, Y.; De Andres, F. J.; Rollon, E.; Domingo, V.; Guscetti, F.; Martin de las Mulas, J.(1/8). 2011. Aglepristone Decreases Proliferation in Progesterone Receptor-Positive Canine Mammary Carcinomas JOURNAL OF VETERINARY INTERNAL MEDICINE. WILEY. 25-3, pp.518-523. ISSN 1939-1676. WOS (17) <https://doi.org/10.1111/j.1939-1676.2011.0723.x>

32 Scientific paper. Galan, A.; Guil-Luna, S.; Millan, Y.; Martin-Suarez, E. M.; Pumarola, M.; de las Mulas, J. M.(1/6). 2010. Oligodendroglial Gliomatosis cerebri in a Poodle VETERINARY AND COMPARATIVE ONCOLOGY. WILEY. 8-4, pp.254-262. ISSN 1476-5810. WOS (10) <https://doi.org/10.1111/j.1476-5829.2010.00219.x>

33 Scientific paper. Millan, Y.; Mascort, J.; Blanco, A.; Costa, C.; Masian, D.; Guil-Luna, S.; Pumarola, M.; Martin de las Mulas, J.(6/8). 2010. Hypomyelination in three Weimaraner dogs JOURNAL OF SMALL ANIMAL PRACTICE. WILEY-BLACKWELL. 51-11, pp.594-598. ISSN 0022-4510. WOS (6) <https://doi.org/10.1111/j.1748-5827.2010.00997.x>

34 Scientific paper. Gordon, A.; Aguilar, R.; Garrido-Gracia, J. C.; et al; Guil-Luna, S.; Sanchez-Criado, J. E.(6/10). 2010. Human follicular fluid from superovulated women inhibits progesterone receptor-dependent gonadotropin-releasing hormone self-priming in an estrous cycle-dependent manner in the rat JOURNAL OF ENDOCRINOLOGICAL INVESTIGATION. SPRINGER. 33-8, pp.564-570. ISSN 1720-8386. WOS (2) <https://doi.org/10.1007/BF03346649>

35 Scientific paper. Ginel PJ.; Lucena R.; Millán Y.; González-Medina S.; Guil-Luna S.; García-Monterde J.; de los Monteros AE.; de las Mulas J.(5/8). 2010. Expression of oestrogen and progesterone receptors in canine sebaceous gland tumours.VETERINARY DERMATOLOGY. WILEY. 21-3, pp.297-302. ISSN 0959-4493. <https://doi.org/10.1111/j.1365-3164.2009.00861.x>

36 Scientific paper. Gordon, Ana; Aguilar, Rafaela; Garrido-Gracia, Jose C.; et al; Guil-Luna, Silvia; Sanchez-Criado, Jose E.(4/10). 2010. Immunoneutralization of Inhibin in Cycling Rats Increases Follicle-Stimulating Hormone Secretion, Stimulates the Ovary and Attenuates Progesterone Receptor-Dependent Preovulatory Luteinizing Hormone Secretion NEUROENDOCRINOLOGY. KARGER. 91-4, pp.291-301. ISSN 1423-0194. WOS (4) <https://doi.org/10.1159/000299791>

37 Scientific paper. Gordon, Ana; Aguilar, Rafaela; Garrido-Gracia, Jose C.; Guil-Luna, Silvia; Sanchez-Cespedes, Raquel; Millan, Yolanda; Martin de las Mulas, Juana; Sanchez-Criado, Jose E.(4/8). 2009. Activation of estrogen



receptor-alpha induces gonadotroph progesterone receptor expression and action differently in young and middle-aged ovariectomized rats HUMAN REPRODUCTION. OXFORD UNIV PRESS. 24-10, pp.2618-2628. ISSN 1460-2350. WOS (4) <https://doi.org/10.1093/humrep/dep237>

38 Scientific paper. Gordon, Ana; Garrido-Gracia, Jose C.; Aguilar, Rafaela; Guil-Luna, Silvia; Millan, Yolanda; de las Mulas, Juana Martin; Sanchez-Criado, Jose E.(4/7). 2009. Ovarian stimulation with FSH reduces phosphorylation of gonadotrope progesterone receptor and LH secretion in the rat REPRODUCTION. BIOSIENTIFICA LTD. 137-1, pp.151-159. ISSN 1470-1626. WOS (6) <https://doi.org/10.1530/REP-08-0318>

39 Book chapter. Guil-Luna S; Millán Y; Reymundo C.; Sánchez-Céspedes R.; Martín de las Mulas J.(1/5). 2013. Veterinary Medicine and Science » "Insights from Veterinary Medicine" Sex steroid hormones and tumours in domestic animals.Intech, Open Science. pp.191-214. ISBN 978-953-51-1005-7.

40 Review. De La Rochere, Philippe; Guil-Luna, Silvia; Decaudin, Didier; Azar, Georges; Sidhu, Sukhvinder S.; Piaggio, Eliane. (2/6). 2018. Humanized Mice for the Study of Immuno-Oncology TRENDS IN IMMUNOLOGY. 39-9, pp.748-763. ISSN 1471-4906. WOS (19) <https://doi.org/10.1016/j.it.2018.07.001>

41 Review. Sanchez-Cespedes, Raquel; Millan, Yolanda; Guil-Luna, Silvia; Reymundo, Carlos; Espinosa de los Monteros, Antonio; Martin de las Mulas, Juana. (3/6). 2016. Myoepithelial cells in canine mammary tumours VETERINARY JOURNAL. 207, pp.45-52. ISSN 1090-0233. WOS (5) <https://doi.org/10.1016/j.tvjl.2015.10.035>.

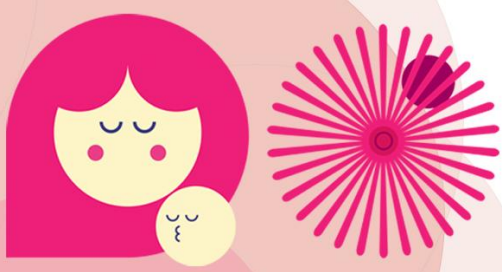
## Research projects and contracts

1 Project. The functional activity of natural killer cells and antibody-dependent cell mediated





- cytotoxicity for prediction of response to anti-EGFR treatment in colorectal cancer (PI20/00997). (Maimonides Institute of Biomedical Research of Córdoba). 05/01/2021-05/01/2024. 157.300 €.
- 2 Project. Immunogenic stimulation based on autologous T cell therapy in combination with PDL1 and MEK inhibitors in the molecular subtypes of colorectal cancer colorrectal (UCO-FEDER-1381156). Junta de Andalucía; Unión Europea. Silvia Guil Luna. (University of Córdoba). 01/01/2022-01/01/2023. 35.000 €.
  - 3 Project. Improvement of immunotherapy for colorectal cancer by the combination with antiangiogenic therapy: preclinical study (2020PI/28). Enrique Aranda Aguilar. (University of Córdoba). 01/01/2018-31/12/2021. 35.000 €.
  - 4 Project. Study of the gene expression of cellular population in canine mammary carcinoma and liquid biopsy utility (AGL2017-84189R). Ministerio de Ciencia e Innovación. Universidades. Yolanda Millán. (University of Córdoba). 01/01/2018-01/01/2021. 80.000 €.
  - 5 Project. Associated Project to Incorporation Juan de la Cierva (ijci2016-29786). Ministerio de Ciencia e Innovación. Universidades. Silvia Guil Luna. (Maimonides Institute of Biomedical Research of Córdoba). 18/12/2018-18/01/2020. 6.000 €.
  - 6 Project. Antitumoral effect of the immunotherapy based on anti-PD1 combined with antiangiogenic in humanized models of colorectal cancer (PI-0150-2017). Consejería de Salud de la Junta de Andalucía. Silvia Guil Luna. (Maimonides Institute of Biomedical Research of Córdoba). 01/01/2018-01/01/2020. 60.000 €.
  - 7 Project. Association between antitumoral immunity, renina-angiotensine system and response to antiangiogenic in colorectal cancer (pi16/012721). Ministerio de Economía, Industria y Competitividad, Fondo de Investigaciones Sanitaria. Enrique Aranda. (Maimonides Institute of Biomedical Research of Córdoba). 01/01/2017-31/12/2019. 98.615 €.
  - 8 Project. Relationship between nitric oxide and molecular subtypes of colorectal cancer for identification of new therapies (PI16/01508). Ministerio de Economía, Industria y Competitividad, Fondo de Investigaciones Sanitarias. Antonio Rodríguez Ariza. (Maimonides Institute of Biomedical Research of Córdoba). 01/01/2017-31/12/2019. 122.815 €.
  - 9 Project. Development of drugs againts tumor stem cells (CSCs) through by screening synthetic libraries using GPCRs, kinases and the calcineurin-NFAT interaction as targets (RTC-2015-3386). Ministerio de Economía y Competitividad. Retos-Colaboración. Antonio. (Maimonides Institute of Biomedical Research of Cordoba). 01/01/2016-31/12/2019. 294.766 €.
  - 10 Project. Molecular characterization of canine mammary carcinoma in plasma and tissue (AGL2015-64316-R). Ministerio de Economía y Competitividad. Yolanda Millán. (University of Cordoba). 11/04/2016-15/04/2019. 80.000 €. Team member.
  - 11 Project. CCB.0094 SEOM, Design and manufacture of biomimetic microfluidic devices for the development of predictive markers in antiangiogenic cancer therapy (CCB.0094 SEOM). Sociedad española de Oncología Medica. Antonio Rodríguez Ariza. (Maimónides Institute of Biomedical Research of Córdoba). 01/03/2015-28/02/2017. 40.000 €. Team member.
  - 12 Project. Role of myoepithelial cells as tumor suppressors in canine breast carcinoma. In vivo and in vitro studies (AGL2011-02553). CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA; Ministerio de Ciencia e Innovación. Investigación. Juana Martín de las Mulas Gonzalez-Albo. (Universidad de Córdoba). 01/01/2012-31/12/2015. 222.000 €.



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CÁNCER DE MAMA Y GESTACIÓN

- 13 Project. Integrative Biology of the Progesterone Receptor (P07-CVI-02559). Ministerio de Ciencia e Innovación. Investigación. Jose Eugenio Sánchez Criado. (University of Cordoba). 10/10/2007-31/01/2012. 190.000 €.
- 14 Project. Participation of the progesterone receptor in the proliferation of canine breast carcinoma: In vivo and in vitro studies (AGL2006-09016). Ministerio de Ciencia e Innovación. Investigación. Juana Martín de las Mulas González-Albo. (University of Córdoba). 01/10/2006-10/09/2009. 64,13 €.
- 15 Project. Staphylococcus aureus host adaptation mechanisms: importance of nasal carriers (PRCEU-UCH08/12). Generalitat Valenciana. Laura Selva Martinez. (University CEU-Cardenal Herrera). From 01/03/2015. 40.000 €.
- 16 Contract. Strategies for improving efficacy of combined immunotherapy based on PDL1 inhibition and T-cell therapy in poorly immunogenic colorectal cancer ROCHE Laboratories. Antonio Rodríguez. 07/12/2020-07/12/2022. 168.000 €.
- 17 Contract. Alianza MIXTA en Red Andalucía-Roche en oncología médica de precisión. Roche Farma, S.A.; Junta de Andalucía. Javier Salvador. 01/01/2020-01/01/2023.
- 18 Contract. Antitumoral effect of immunotherapy by blocking PD1 combined with antiangiogenic therapy in humanized murine models of colorectal cancer Roche. Aranda E. 2018-01/01/2021.