

Curriculum Vitae	
Personal information	
First name / Surname	Carmen Almiñana Brines
Address(es)	
Telephone	
Mobile	
E-mail	calmi@um.es
Nationality	Spanish
Date of birth	
Gender	Female

Personal statement and statement of intent	<p>My fascination with reproductive science began while undertaken voluntary work as an undergraduate student in the Animal Reproduction research group (EOA1-03) at the University of Murcia during my Veterinary degree (1998-2003). At the time, I did not know that my interest in reproductive biotechnologies and in particular, my immense curiosity in the first week of the embryonic development and the maternal-embryo interactions would develop into a career choice.</p> <p>After finishing my Veterinary degree, I joined the Animal Reproduction research group as a PhD student (2003-2008) to develop my Doctoral thesis. During the PhD studies, the focus of my research was to optimize the in vitro production of pig embryos, being my Doctoral Thesis awarded with "Premio extraordinario de Doctorado" by the University of Murcia.</p> <p>After finishing my PhD studies, my research interest moved on to further understand the molecular mechanisms responsible of the cross-talk between the embryo and the maternal tract. I put a lot of effort in getting a fellowship abroad that allow me to mature as a researcher while studying the early maternal-embryo interactions. I performed two postdoctoral stays at the University of Sheffield (UK) (2009-2012), first as a Postdoctoral MEC/Fulbright supported by Spanish Ministry of Science and Innovation (MICINN) and then as a Marie Curie Intra-European fellow (IEF). These postdoctoral stays allowed me to identify key factors of the maternal-embryo dialogue. Moreover, I have been trained in different molecular biology techniques and systems biology. Currently, I am working at the University of Murcia as a Marie Curie fellow under a FP7 COFUND Program "U-IMPACT" (UMU Incoming Mobility Programme ACTION) funded by EU Marie Curie Actions and Campus Mare Nostrum 37/38 CMN (2012-2014). My actual project aims to determine the effect of reproductive biotechnologies such as embryo cryopreservation and embryo transfer on uterine receptivity that can be potentially translated into knowledge to improve pregnancy rates and healthy offspring.</p> <p>As a result of my research, I have published 22 articles in peer-reviewed international journals (2 more submitted and 3 under preparation), 3 articles in national journals, 50 conferences abstracts, 8 book chapters and 1 book. I have also been invited as a speaker to 7 conferences. I have co-supervised 3 MSc Thesis (2 at the University of Murcia and 1 at the University of</p>
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	<p>Sheffield). In addition, I have learned the importance of the research mobility; working in different laboratories and collaborating with researcher from different disciplines help me to see concepts and problems from different points of view and integrate all of them to build up the “ big picture”. Moreover, I have learned the importance of linking the findings in basic research to applications in applied science. For this reason during my career I have always kept a continuous training both in applied science, optimizing several reproductive biotechnologies, as well as in basic science, identifying the factors that are involved in the maternal-embryo interactions.</p> <p>For medium-term goals, I would like to continue my research in a high-level scientific environment such as the INRA-Val de Loire centre (Tours, France), where I could gain high-specialized expertise in different areas of reproduction and enhance my training and mentoring skills. For a long-term career plan but hopefully, in a not-so-distant future, I would like to become an outstanding independent scientist engaged in studying maternal-embryo interactions and have my own laboratory. I will intend that one day my research will be able to translate from “the bench to the bedside”, by applying the knowledge acquired to improve reproductive technologies success rates and solve infertility problems in the livestock industry.</p> <p>In pursuit of my career path and goals I am currently applying for an AgreenSkills fellowship to join the INRA-Val de Loire Research centre, a world-renowned research centre in the field of reproductive biology. Being awarded with an AgreenSkills fellowship would enable me to acquire international experience and increase my research potential, while boosting my career development skills and allowing me to reach my research career goals.</p>
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Education and training

Location and dates	Murcia, Spain. 30th January 2008
Title of qualification awarded	European Doctorate in Veterinary Medicine (PhD).
Principal subjects/occupational skills covered	Training in biotechnology techniques and scientific writing skills. Title Thesis: “Optimization of porcine in vitro fertilization system”.
Name of Institute	University of Murcia (Spain).
Location and dates	Murcia, Spain. February 2007.
Title of qualification awarded	Master of Pig Science Degree (MSc).
Principal subjects/occupational skills covered	Modules studied in this Master include: Cellular Biology techniques, Reproductive Biotechnology techniques, Pathology of the pig, Diseases and Parasites of Swine Pig Production, Economic analysis of pig industry, 60 credits. Dissertation Project: “Effects of ultra-short gamete co-incubation time on porcine in vitro fertilization”.
Name of Institute	University of Murcia (Spain).
Location and dates	Murcia, Spain. December 2006.
Title of qualification awarded	Minor Thesis.
Principal subjects/occupational skills covered	Training in biotechnology techniques and scientific writing skills. Title Minor Thesis: “Adjustments in IVF system for individual boars: value of additives and time of sperm-oocyte co-incubation”.
Name of Institute	University of Murcia (Spain).
Location and dates	Murcia, Spain. July 2005.
Title of qualification awarded	Postgraduate course Certificate of Advanced Graduate Studies. (Equivalent to Master's degree, gives access to PhD).
Principal subjects/occupational skills covered	Reproductive biotechnology in pig, Histology and anatomic pathology techniques,

	diagnostic imaging techniques and complementary techniques, Advanced Cell Biology techniques, Experimental design, Veterinary clinical trials.
Name of Institute	University of Murcia (Spain).
Location and dates	Murcia, Spain. July 2003.
Title of qualification awarded	Veterinary Medicine Degree (DVM).
Principal subjects/occupational skills covered	Subjects included in the Veterinary Medicine Program of the University of Murcia with practical training in the farm and the hospital of the University of Murcia.
Name of Institute	University of Murcia (Spain).

Work experience

Location and dates	Department of Medicine and Animal Surgery, University of Murcia, Spain. From: 01/04/ 2012 to 31/03/2014
Occupation or position held	Postdoctoral Marie Curie Fellow co-funded Programme UMU Incoming Mobility Programme ACTION (U-IMPACT) Fellowship, supported by EU Marie Curie Actions and by University of Murcia, Spain under Campus Mare Nostrum 37/38 CMN.
Main activities and responsibilities	In charge of the project "Understanding the effect of biotechnologies on uterine receptivity to optimize embryo transfer and embryo development".
Name of employer	University of Murcia
Location and dates	Academic Unit of Reproductive and Developmental Medicine, Medical School, Sheffield, UK. From: 01/09/2010 to 31/03/2012
Occupation or position held	Postdoctoral Marie Curie Fellow Intra-European Fellowships for career development (IEF), supported by EU Marie Curie Actions
Main activities and responsibilities	Project: "Maternal communication with embryos". Training: in Molecular biology, genomics and proteomics such as; Microarrays, ITRAq, 2D-PAGE, Western Blot analysis, Bioinformatics Tools and application of system biology approaches for understanding embryo-maternal communication.
Name of employer	University of Sheffield
Location and dates	Academic Unit of Reproductive and Developmental Medicine, Medical School, Sheffield, UK. From: 01/04/2009 to 31/08/2010
Occupation or position held	Postdoctoral Fellowship supported by Ministerio de Ciencia e Innovación (MICINN, Spanish Government),
Main activities and responsibilities	Project: " Maternal interaction with gametes and embryos". Training: in Molecular biology and genomics such as; Microarray and Bioinformatics Tools.
Name of employer	University of Murcia
Location and dates	Department of Medicine and Animal Surgery, University of Murcia, Spain. From: 01/10/2008 to 31/03/2009
Occupation or position held	Postdoctoral Fellowship supported by "CajaMurcia" (Murcia, Spanish Foundation),
Main activities and responsibilities	Project: "Optimization of the porcine embryo vitrification procedure" Training: in Embryos collection by surgery, embryo vitrification and embryo transfer.
Name of employer	CajaMurcia Foundation
Location and dates	Department of Medicine and Animal Surgery, University of Murcia, Spain.

	From: 02/04/2008 to 01/10/2008
Occupation or position held	Collaborative research Fellowship at the Animal Reproduction Group
Main activities and responsibilities	Project: Collaborating in the project "Biotechnology in Animal Reproduction" (R-132/2008). Training: In embryo vitrification, deep intrauterine insemination, in vitro fertilization, Cloning, Cell Culture.
Name of employer	University of Murcia
Location and dates	Department of Medicine and Animal Surgery, University of Murcia, Spain. From: 26/06/2007 to 31/12/2007.
Occupation or position held	Collaborative research Fellowship at the Animal Reproduction Group
Main activities and responsibilities	Project: Collaborating in the project "Biotechnology in Animal Reproduction" (R-339/2007). Training: In embryo vitrification, deep intrauterine insemination, in vitro fertilization, Cloning, Cell Culture
Name of employer	University of Murcia
Location and dates	Department of Medicine and Animal Surgery, University of Murcia, Spain. From: 15/06/2004 to 14/06/2007
Occupation or position held	Pre-doctoral Fellowship Seneca Foundation
Main activities and responsibilities	Project: "Non-surgical embryo transfer of vitrified porcine embryos" Training: In vitro fertilization, embryo transfer, artificial insemination, deep intrauterine insemination, Laparoscopic insemination, semen cryopreservation, cell culture and Fluorescence in situ hybridization.
Name of employer	Seneca Foundation

Languages

Mother tongue(s)	Spanish				
Other language(s)					
<i>European level (*)</i>					
English	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	C1	C1	C1	C1	C1
	(*) Common European Framework of Reference for Languages http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr				

Academic Record

Publications <i>Article (A), Review (R)</i>	Accepted, in press and published articles / papers:
	<i>Peer-reviewed in international Journals (JCR):</i>
	<p>1. Cuello C, Gomis J, Almiñana C, Maside C, Sanchez-Osorio J, Gil MA, Sánchez A, Parrilla I, Vazquez JM, Roca J, Martinez EA. 2013. Effect of MEM vitamins and forskolin on embryo development and vitrification tolerance of in vitro-produced pig embryos. Anim Reprod Sci. Jan 30;136(4):296-302. doi: 10.1016/j.anireprosci.2012.11.003. Epub 2012 Nov 12. (A)</p> <p>2. Caballero I, Parrilla I, Almiñana C, del Olmo D, Roca J, Martínez EA, Vázquez JM. 2012. Seminal plasma proteins as modulators of the sperm function and their</p>

application in sperm biotechnologies. *Reprod Domest Anim.* Jun;47 Suppl 3:12-21. doi: 10.1111/j.1439-0531.2012.02028.x. (R)

3. Almiñana C, Heath PR, Wilkinson S, Sanchez-Osorio J, Cuello C, Parrilla I, Gil MA, Vazquez JL, Vazquez JM, Roca J, Martinez EA, Fazeli A. **2012**. Early developing pig embryos mediate their own environment in the maternal tract. *PLoS One.* 7(3):e33625. doi: 10.1371/journal.pone.0033625. Epub 2012 Mar 28. (A)

4. Almiñana C and Fazeli A. **2012**. Exploring the application of high-throughput genomics technologies in the field of maternal-embryo communication. *Theriogenology.* Mar 1;77(4):717-37. doi: 10.1016/j.theriogenology.2011.11.009. Epub 2012 Jan 3. (R)

5. Georgiou AS, Gil MA, **Almiñana C**, Cuello C, Vazquez JM, Roca J, Martinez EA, Fazeli A. **2011**. Effects of Complement Component 3 Derivatives on Pig Oocyte Maturation. *2011. Reprod Domest Anim.* Dec;46(6):1017-21. doi: 10.1111/j.1439-0531.2011.01777.x. Epub 2011 Mar 8. (A)

6. Almiñana C, Gil MA, Cuello C, Parrilla I, Caballero I, Sanchez-Osorio J, Vazquez JM, Roca J, Martinez EA. **2010**. Capability of frozen-thawed boar spermatozoa to sustain pre-implantational embryo development. *Anim Reprod Sci.* Aug;121(1-2):145-51. doi: 10.1016/j.anireprosci.2010.05.004. Epub 2010 May 20. (A)

7. Sanchez-Osorio J, Cuello C, Gil MA, Parrilla I, **Almiñana C**, Caballero I, Roca J, Vazquez JM, Rodriguez-Martinez H, Martinez EA. **2010**. In vitro postwarming viability of vitrified porcine embryos: effect of cryostorage length. *Theriogenology.* Aug;74(3):486-90. doi: 10.1016/j.theriogenology.2010.03.003. Epub 2010 May 8. (A)

8. Cuello C, Sanchez-Osorio J, **Almiñana C**, Gil MA, Parrilla I, Roca J, Vazquez JM, Martinez EA, Rodriguez-Martinez H. **2010**. Superfine open pulled straws vitrification of porcine blastocysts does not require pretreatment with cytochalasin B and/or centrifugation. *Reprod Fertil Dev.* 22(5):808-17. doi: 10.1071/RD09160. (A)

9. Gil MA, Hernandez M, Roca J, **Almiñana C**, Lucas X, Cuello C, Vazquez JM, Martínez EA. **2010**. Pentoxifylline added to freezing or post-thaw extenders does not improve the survival or in vitro fertilising capacity of boar spermatozoa. *Reproduction.* Mar;139(3):557-64. doi: 10.1530/REP-09-0274. Epub 2009 Dec 23. (A)

10. Sanchez-Osorio J, Cuello C, Gil MA, Parrilla I, Maside C, **Almiñana C**, Lucas X, Roca J, Vazquez JM, Martinez EA. **2010**. Vitrification and warming of in vivoderived porcine embryos in a chemically defined medium. *Theriogenology.* Feb;73(3):300-8. doi: 10.1016/j.theriogenology.2009.07.031. Epub 2009 Nov 13. (A)

11. Gil MA, **Almiñana C**, Roca J, Vázquez JM, Martínez EA. **2008**. Boar semen variability and its effect on IVF efficiency. *Theriogenology.* Nov;70(8):1260-8. doi: 10.1016/j.theriogenology.2008.06.004. Epub 2008 Aug 3. (R)

12. Almiñana C, Gil MA, Cuello C, Caballero I, Roca J, Vazquez JM, Martinez EA. **2008**. In vitro fertilization (IVF) in straws and a short gamete coincubation time improves the efficiency of porcine IVF. *Reprod Domest Anim.* Dec;43(6):747-52. doi: 10.1111/j.1439-0531.2007.00995.x. Epub 2008 Jun 19. (A)

13. Almiñana C, Gil MA, Cuello C, Caballero I, Roca J, Vazquez JM, Gomez E, Martinez EA. **2008**. In vitro maturation of porcine oocytes with retinoids improves embryonic

development. *Reprod Fertil Dev.* 20(4):483-9. **(A)**

14. Caballero I, Vazquez JM, Mayor GM, **Almiñana C**, Calvete JJ, Sanz L, Roca J, Martinez EA. **2009.** PSP-I/PSP-II spermadhesin exert a decapacitation effect on highly extended boar spermatozoa. *Int J Androl.* Oct;32(5):505-13. doi: 10.1111/j.1365-2605.2008.00887.x. Epub 2008 Apr 9. **(A)**

15. Cuello C, Sanchez-Osorio J, **Almiñana C**, Gil MA, Peral ML, Lucas X, Roca J, Vazquez JM, Martinez EA. **2008.** Effect of the cryoprotectant concentration on the in vitro embryo development and cell proliferation of OPS-vitrified porcine blastocysts. *Cryobiology.* Jun;56(3):189-94. doi: 10.1016/j.cryobiol.2008.02.005. Epub 2008 Feb 29. **(A)**

16. Sanchez-Osorio J, Cuello C, Gil MA, **Almiñana C**, Parrilla I, Caballero I, Garcia EM, Vazquez JM, Roca J, Martinez EA. **2008.** Factors affecting the success rate of porcine embryo vitrification by the Open Pulled Straw method. *Anim Reprod Sci.* Nov;108(3-4):334-44. Epub 2007 Sep 16. **(A)**

17. **Almiñana C**, Gil MA, Cuello C, Parrilla I, Roca J, Vazquez JM, Martinez EA. **2008.** Effects of ultrashort gamete co-incubation time on porcine in vitro fertilization. *Anim Reprod Sci.* Jul;106(3-4):393-401. Epub 2007 May 31. **(A)**

18. Spjuth L, Gil MA, Caballero I, Cuello C, **Almiñana C**, Martínez EA, Lundeheim N, Rodríguez-Martínez H. **2007.** Pre-pubertal di(2-ethylhexyl) phthalate (DEHP) exposure of young boars did not affect sperm in vitro penetration capacity of homologous oocytes post-puberty. *Arch Androl.* May-Jun;53(3):141-7. **(A)**

19. Cuello C, Gil MA, **Almiñana C**, Sanchez-Osorio J, Parrilla I, Caballero I, Vazquez JM, Roca J, Rodríguez-Martínez H, Martinez EA. **2007.** Vitrification of in vitro cultured porcine two-to-four cell embryos. *Theriogenology.* Jul 15;68(2):258-64. Epub 2007 Jun 4. **(A)**

20. Gil MA, **Almiñana C**, Cuello C, Parrilla I, Roca J, Vazquez JM, Martinez EA. 2007. Brief coincubation of gametes in porcine in vitro fertilization: role of sperm:oocyte ratio and post-coincubation medium. *Theriogenology.* Feb;67(3):620-6. Epub 2006 Oct 19. **(A)**

21. Parrilla I, Vazquez JM, Gil MA, Caballero I, **Almiñana C**, Roca J, Martinez EA. 2005. Influence of storage time on functional capacity of flow cytometrically sex-sorted boar spermatozoa. *Theriogenology.* Jul1;64(1):86-98. Epub 2004 Dec 15. **(A)**

22. **Almiñana C**, Gil MA, Cuello C, Roca J, Vazquez JM, Rodríguez-Martínez H, Martinez EA. **2005.** Adjustments in IVF system for individual boars: value of additives and time of sperm-oocyte co-incubation. *Theriogenology.* Nov;64(8):1783-96. **(A)**

National publications (Spanish)

23. Martínez E.A, **Almiñana C**; Cuello C, Gil M.A, Parrilla I, Caballero I, Roca J, Vázquez J.M. Transferencia de embriones en la especie porcina. 2007. *SUIS (No46)*16-28. (Spanish) **(R)**

24. **Almiñana C** and Martínez E.A. Fecundación in vitro en la especie porcina I. 2008. *Avances en tecnología porcina.* V(11)34-43. (Spanish) **(R)**

	<p>25. Almiñana C and Martínez E.A. Fecundación in vitro en la especie porcina II. 2008. Avances en tecnología porcina. V(12)34-45. (Spanish) (R)</p> <p>Submitted publications:</p> <p>26. Almiñana C, Evans C, Martinez-Rodriguez C, Vazquez JM, Roca J, Martinez EA , Wright PC, Fazeli A. 2013. Pig blastocysts alter the proteomic profile of the uterine epithelium'. Submitted to Journal of Proteomics and under revision. (A)</p> <p>27. Almiñana C, Caballero I, Heath PR, Maleki-Dizaji S, Parrilla I, Cuello C, Gil MA, Vazquez JL, Vazquez JM, Roca J, Martinez EA, Holt WV, Fazeli A. 2013. The Battle of the Sexes starts in the oviduct: modulation of oviductal transcriptome by X and Y-bearing spermatozoa. In preparation to be submitted to Nature communication. (A)</p> <p>28. Moein-Vaziri N, Almiñana C, Jones R, Aghamohammadzadeh S, Pockley G, Fazeli A. 2013. Exogenous heat shock protein A8 rapidly repairs and restores sperm membrane integrity by increasing plasma membrane fluidity via a cholesterol dependent process. Submitted to Journal of Biological Chemistry and under revision. (A)</p>
<p>Presentations as invited speaker</p>	<p>1. Almiñana C. 2012. Maternal- embryo dialogue: Science Fiction or reality with practical applications. International Symposium of Porcine Culture. Organized by Feria ganadera SEPOR, Lorca, Murcia, Spain. 20th September 2012.</p> <p>2. Almiñana C. 2011. Snooping on a private conversation: What does the mum say to the embryo?. A Symposium to celebrate contributions in comparative reproductive biology at London Zoological Institute: "From endangered species to tracking cars; Reproductive biology, Wildlife and Modern biotechnology. Organized by: Professor William V. Holt Secretary at Zoological Society of London, UK. 20th October 2011.</p> <p>3. Almiñana C. 2011. Maternal communication with embryos: A microarray study using workflow data analysis. A Bioinformatics course for biologists; how to interpret data from large scale experiments using Taverna Workflow Management system. Organized by Dr. Afsaneh Maleki-Dizaji at University of Sheffield, Sheffield, UK. 8th June 2011.</p> <p>4. Almiñana C. 2010. Pig embryo elicits a local response in the maternal tract. UK Affymetrix. Meeting. Organized by Dr. Paul Heath, Sheffield, UK. 9th September 2010.</p> <p>5. Almiñana C. 2010. An overview of high-throughput genomic analysis platforms. Research Training School of Systems Biology in Maternal Communication with Gametes and Embryo. Organized by GEMINI COST Action FA0702, Opatija, Croatia. 2010. 9-13th May 2010</p> <p>6. Almiñana C, Heath P, Aldarmahi A, Vazquez JM, Roca J, Martinez EA and Fazeli A. 2010. A systems biology approach for understanding maternal communication with embryo. Research Training School of Systems Biology in Maternal Communication with Gametes and Embryo. Organized by GEMINI COST Action FA0702, Opatija, Croatia. 2010. 9-13th May 2010</p> <p>7. Almiñana C, Gil MA, Cuello C, Roca J, Vazquez JM, Martinez EA. 2006. Combination of IVF strategies to reduce porcine polyspermic fertilization. 8th AERA Conference, Murcia. 2006. Published in: Reproduction in Domestic Animals. 2006 AERA</p>

	Supplement. (41)105.
Books or books chapter author <i>Book (B) and Book Chapters (C)</i>	<p>1. Almiñana C. 2008. Optimization of porcine in vitro fertilization system. Eds Servicio de publicaciones Universidad Murcia. ISBN:978-84-691-2485-7. (B)</p> <p>2. Spjuth L, Gil MA, Caballero I, Cuello C, Almiñana C, Martínez EA, Lundeheim N, Rodríguez-Martínez H. 2007. Pre-pubertal Di(2-ethylhexyl) Phthalate (DEHP) Exposure of Young Boars Eds. Acta Universitatis Agriculturae Sueciae. ISBN 91-576-7253-9.2007. (C)</p> <p>3. Gil MA, Almiñana C, Cuello C, Caballero I, Parrilla I, Hernández M, García E, Sanchez-Osorio J, Lucas X, Vázquez JM, Roca J, Martínez EA. 2006. Técnicas de análisis in vitro del poder fecundante del semen. Manual de técnicas de reproducción asistida en porcino (Spanish). Eds Universidad de Girona. Red temática nacional de porcino. ISBN:84-8458-241-8. pages: 267-278. (C)</p> <p>4. Hernández M, Bolarín A, Gil MA, Almiñana C, Cuello C, Parrilla I, García E, Caballero I, Sánchez-Osorio J, Lucas X, Vázquez JM, Martínez EA, Roca J. 2006. Criopreservación espermática. Manual de técnicas de reproducción asistida en porcino (Spanish). Eds Universidad de Girona. Red temática nacional de porcino. ISBN:84-8458-241-8. pages: 185-200. (C)</p> <p>5. Parrilla I, Caballero I, García E, Gil MA, Almiñana C, Cuello C, Sánchez-Osorio J, Hernández M, Lucas X, Roca J, Martínez EA, Vázquez JM. 2006. Determinación del sexo de la descendencia: sexaje de espermatozoides. Manual de técnicas de reproducción asistida en porcino (Spanish). ISBN:84-8458-241-8. pages: 215-236. (C)</p> <p>6. Cuello C, Gil MA, Almiñana C, Sánchez-Osorio J, Parrilla I, Hernández M, García E, Caballero I, Lucas X, Vázquez JM, Roca J, Martínez EA. 2006. Obtención y cultivo in vitro de embriones. Manual de técnicas de reproducción asistida en porcino (Spanish). Eds Universidad de Girona. Red temática nacional de porcino. ISBN:84-8458-241-8. pages: 259-266. (C)</p> <p>7. Gil MA, Almiñana C, Cuello C, Parrilla I, Hernández M, García E, Caballero I, Sánchez-Osorio J, Lucas X, Vázquez JM, Roca J, Martínez EA. 2006. Producción in vitro de embriones porcinos. Manual de técnicas de reproducción asistida en porcino (Spanish). Eds Universidad de Girona. Red temática nacional de porcino. ISBN:84-8458-241-8. pages: 267-278. (C)</p> <p>8. Cuello C, Gil MA, Almiñana C, Sánchez-Osorio J, Parrilla I, Hernández M, García E, Caballero I, Lucas X, Vázquez JM, Roca J, Martínez EA. 2006. Técnicas de transferencia de embriones. Manual de técnicas de reproducción asistida en porcino (Spanish). Eds Universidad de Girona. Red temática nacional de porcino. ISBN:84-8458-241-8. pages: 279-284. (C)</p> <p>9. Cuello C, Gil MA, Almiñana C, Sánchez-Osorio J, Parrilla I, Hernández M, García E, Caballero I, Lucas X, Vázquez JM, Roca J, Martínez EA. 2006. Técnicas de vitrificación de embriones. Manual de técnicas de reproducción asistida en porcino (Spanish). Eds Universidad de Girona. Red temática nacional de porcino. ISBN:84-8458-241-8. pages: 285-292. (C)</p>

Participation in open calls for proposals as contributor or leader	Institution	Project	Duration	Researcher Contribution
	EU Marie Curie Actions and Campus Mare Nostrum Universidad de Murcia 37/38FECUND CMN.	Understanding the effect of biotechnologies on uterine receptivity to optimize embryo transfer and embryo development	01/04/2012 to 31/03/2014	<p>Researcher in charge of experiment design, day-to-day supervisor of the Project and administration tasks. Involved in Vitrification, embryo transfer, microarrays, bioinformatics analysis, qPCR.</p> <p>Principal Investigator (PI): Emilio A. Martínez García and Carmen Almiñana</p> <p>7000 euros</p>
	Ministerio de Educación y Ciencia (Spanish Government)	Deep intrauterine non-surgical transfer of vitrified porcine embryos	13/02/2012 to 12/02/2015	<p>Researcher involved in embryo vitrification and embryo transfer</p> <p>PI: Emilio A. Martínez García</p>
	Seventh Framework Programme, FP7). Marie Curie Actions	Maternal Communication with embryo.	01/09/2010 to 31/08/2012	<p>Researcher in charge of experiment design and administration tasks and carry out laparoscopic insemination, collection of samples, genomics and proteomics technologies, bioinformatics análisis.</p> <p>PI: Alireza Fazeli</p> <p>172434.64 euros</p>
	Ministerio de Educación y Ciencia, (Spanish Government)	Criopreservación de espermatozoides de porcino. Desarrollo de diluyentes químicamente definidos para optimizar	31/12/2005 to 30/12/2008	<p>Researcher involved in Sperm cryopreservation and sperm</p>

	el protocolo de criopreservación. (AGL2005-00760)	quality evaluation. PI: Jordi Roca Aleu 105000.00 euros
Graduate teaching as lecturer or training coordinator	<ul style="list-style-type: none"> Teaching as collaborator in Reproduction and Obstetrics in Veterinary degree. University of Murcia. During periods: Academic years 2004-2007; from April 2012 to March 2014. Teaching as collaborator in Reproduction and Obstetrics in Veterinary degree. University of Murcia. 20012-2013. 	
Awards and prizes, if any	<ul style="list-style-type: none"> Phd with distinction: "Premio Extraordinario de Doctorado" by University of Murcia, Spain. 2008. First prize i-patent for the transfer of research results in the Region of Murcia, Spain. 2006. 	

Collaboration and Networking

Participation in collaborative projects funded by competitive programmes	Project	Institution	Duration	Amount
	Toll -like Receptors and Pregnancy: embryo(s) as modulators of innate immune response.	Medical School, University of Sheffield	06/03/2011 to 06/08/2011	Researcher involved in teaching and day-to-day supervisor of a Msc Student. PI: Carmen Almiñana Brines and Dr. Alireza Fazeli 3754 euros
	Biotechnología de la Reproducción Animal.	Séneca Foundation, Murcia, Spain	01/01/2008 to 31/12/2012	Researcher involved in optimization of porcine in vitro fertilization procedure embryo vitrification and laparoscopic insemination. PI: Emilio A. Martínez García 300000.00 euros
	Criopreservación de espermatozoides de sexados. porcinos	Centro para el Desarrollo Tecnológico Industrial (CDTI)	2003- 2005	Researcher involved in sperm cryopreservation and sperm quality evaluation after thawing and sorting. Principal Investigator (PI): Juan María Vázquez Rojas

	Inseminación intrauterina profunda en cerdas con estro espontáneo: efecto del número de espermatozoides, del intervalo inseminación-ovulación y de la adición de estimulantes de la contractibilidad uterina sobre la fertilidad y la prolificidad	Centro para el Desarrollo Tecnológico Industrial (CDTI).	23/11/2006 to 22/12/2008	Researcher involved in Deep intrauterine Insemination and sperm quality evaluation. Principal Investigator (PI): Emilio A. Martínez García
Partnerships or experience with industry	<u>Participation in Research contracts of special relevance with companies and/or funding bodies:</u>			
	Project	Institution	Duration	Contribution/ Amount
	Nuevos diluyentes para semen de verraco. Evaluación de la funcionalidad, capacidad fecundante espermatozoides conservados en refrigeración.	Genes Difusión S.A. CÍA de "Les Garrigues".	5/12/2005 to 04/06/2006	Researcher involved in Evaluation of sperm quality diluted on new commercial semen extenders. PI: Juan Maria Vazquez Rojas 6960.00 euros
	Mejora de los procesos de vitrificación de embriones porcinos.	Bibiano y CIA S.L.	16/06/2008 to 07/10/2010	Researcher involved in surgical embryo collectio and embryo vitrification. PI: Emilio A. Martínez García
	Evaluación de la eficiencia de diferentes láseres para cuantificar el número de espermatozoides presentes en los eyaculados de la especie porcina	AIM IBÉRICA S.A.	10/06/2009 to 10/12/2010	Researcher involved in Sperm quality evaluation. PI: Emilio A. Martínez García
Mejora de los procesos de vitrificación y transferencia no quirúrgica de embriones porcinos	Coronilla del campo, S.L.	25/11/2009 to 25/05/2011	Researcher involved in surgical embryo collectio and embryo vitrification. PI: Emilio A. Martínez García	
University or post-graduate programme leader				
Graduate teaching as lecturer or training coordinator	<ul style="list-style-type: none"> •Teaching eminars at Dr. Fazeli´s Laboratory during postdoctoral stays at the University of Sheffield. During periods: From April 2009 to March 2012; from May to July 2013. 			
Membership of professional bodies and committees	<u>Membership of scientific associations:</u> <ul style="list-style-type: none"> • British Andrology Society (BAS) (2009-present) • Asociación Española Reproducción Animal (AERA) (2005-present) • European Society Domestic Animal Reproduction (ESDAR)(2004-present) 			

Research management, Technology transfer, and Communication

Team management	<ul style="list-style-type: none"> • <u>Project</u>: Understanding the effect of biotechnologies on uterine receptivity to optimize embryo transfer and embryo development (01/04/2012 to 31/03/2014). Supported by EU Marie Curie Actions and Campus Mare Nostrum Universidad de Murcia 37/38 CMN. Researcher in charge of planning experiments, development and progress of the project, administration and management tasks (7000 euros). • <u>Project</u>: Maternal Communication with embryo. (01/09/2010 to 31/08/2012). Supported by Seventh Framework Programme, FP7. Marie Curie Actions (IEF). Researcher in charge of planning experiments, development and progress of the experiments and management tasks (172434.64 euros). • <u>Project</u>: Toll -like Receptors and Pregnancy: embryo(s) as modulators of innate immune response. (06/03/2011 to 06/08/2011). Supported by Medical School, University of Sheffield. Researcher involved in teaching and day-to-day supervisor of a Msc Student and management tasks (3754 euros).
Technological platform management	
Consultancy for the public or private sector	
Other experience and skills relevant to the application	<p><u>Organization of international scientific events:</u></p> <ul style="list-style-type: none"> • 9th Conference ESDAR. Murcia. 2005. • 8th Conference AERA. Murcia. 2006. <p><u>Reviewer of scientific abstracts and manuscripts:</u></p> <ul style="list-style-type: none"> • Reproduction, Fertility and Development journal • Reproduction in Domestic Animals • Reproduction • Animal Reproduction Science • ESDAR and AERA Abstracts Conferences

Scientific References

Full name	Emilio A. Martinez Garcia
Position	Professor of Animal Reproduction, Veterinary Faculty
Institution	University of Murcia, Murcia, Spain
Email address	emilio@um.es
Full name	Alireza Fazeli
Position	Reader and Head, Academic Unit of Reproductive and Developmental Medicine
Institution	The University of Sheffield, Sheffield, UK
Email address	a.fazeli@sheffield.ac.uk

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I found out information from AgreenSkills from a colleague working at INRA- (Institut National de la Recherche Agronomique – France) and from the Bureau for European and International Projects of the UMU (OPERUM) of the University of Murcia.