

Part A. PERSONAL INFORMATION

		CV date	12-07-19
First and Family name	Antonio González de Bulnes López		
Social Security, Passport, ID number	06998421G	Age	51
Researcher numbers	Researcher ID	K-7691-2015	
	ORCID code	0000-0002-0917-4475	

A.1. Current position

Name of University/Institution	Universidad CEU Cardenal Herrera		
Department	Departamento de Producción y Sanidad Animal, Salud Pública Veterinaria y Ciencia y Tecnología de los Alimentos (PASAPTA)		
Address and Country	C/ Tirant lo Blanc, 7. 46115 Alfara del Patriarca, Valencia (Spain)		
Phone number	+34 639 811749	E-mail	antonio.gonzalezbulnes@uchceu.es
Current position	Profesor Asociado	From	2019
Espec. cód. UNESCO	310411		
Key-words	Metabolism, Reproduction, Pregnancy, Fetal-development, Developmental-programming		

A.2. Education

PhD	University	Year
Veterinary Sciences	Universidad Complutense de Madrid	1997

A.3. JCR articles, h Index, thesis supervised...

Number of JCR articles: 225

Total citations: 3804

H-index: 33

Number of PhD Thesis: 17

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Antonio Gonzalez-Bulnes obtained the degree of Veterinary Medicine in 1991 and the PhD degree in 1997, at the UCM in Madrid, Spain. After postdoc stays at Spain and United Kingdom, he obtained a position of Researcher at the Spanish National Institute for Agricultural and Food Research (INIA) in 2001, in the first call of the Program Ramon y Cajal and was Científico Titular from 2006 to 2017. Currently, he is Investigador Científico and the Head of the Comparative Physiology Group at this institution. This group is specialized in the use of large farm animals (mainly sheep and pig) for research in nutrition, metabolism, reproduction, intrauterine growth retardation and developmental programming of health and disease. The research performed has been funded by MCYT, CICYT, OCDE and Medical Research Council of United Kingdom and its impact is determined by 217 SCI papers and 17 Doctoral Thesis. Currently, he also is Profesor Asociado at the Faculty of Veterinary Sciences of the Universidad Cardenal Herrera CEU. He is been actively involved in international collaborations, like member of the Managing Committee, member of the Steering Committee and leader of Working Group at the EU COST Action BM1308 "Sharing Advances on Large Animal Models". He is also a reviewer for different competitive funding bodies of the European Commission (AgreenSkills, Marie S. Curie), Spain (ANEP, AGAE, InnoCash), Argentina (ANPCyT-FONCyT), Chile (FONDECYT), Denmark (DFF – YDUN), France (ANR), Germany (DAAD), Hong Kong (HMRF), Poland (NCN), Portugal (FCT), South Africa (NRF), United Kingdom (BBSRC The Wellcome Trust) and Uruguay (CSIC). He is Academic Editor of PLOS One and Animals and reviewer for around 60 scientific journals. He is also actively working in Animal Welfare and Research Ethics, as Executive Secretary of the INIA Scientific Ethic Committee and Executive Secretary of the INIA Biohazard Committee from 2007 to 2015 and member of the Spanish Scientific Ethic Committee of Public Research Organizations (OPIs) from 2013 onwards.

Part C. RELEVANT MERITS

C.1. Publications (10 last publications)

1. Martínez-Ros P, González-Bulnes A. Efficiency of CIDR-based protocols including GnRH instead of eCG for estrus synchronization in sheep. *Animals* 2019, 9, 146; <https://doi.org/10.3390/ani9040146>. IF: 1,654. (Q1).
2. Martínez-Ros P, González-Bulnes A, García-Rosello E, Ríos-Abellán A, Astiz S. Effects of short-term intravaginal progestagen treatment on fertility and prolificacy after natural breeding in sheep at different reproductive seasons. *J Applied Anim Res* 2019, 47, 201–205; <https://doi.org/10.1080/09712119.2019.1599899>. IF: 0,826. (Q2).
3. Pesántez-Pacheco JL, Heras-Molina A, Torres-Rovira L, Sanz-Fernández MV, García-Contreras C, Vázquez-Gómez M, Feyjoo P, Cáceres E, Frías-Mateo M, Hernández F, Martínez-Ros P, González-Martin JV, González-Bulnes A, Astiz S. Influence of maternal factors (weight, body condition, parity and pregnancy rank) on plasma metabolites of dairy ewes and their lambs. *Animals* 2019, 9, 122; doi:10.3390/ani9040122;. IF: 1,654. (Q1).
4. Sales F, Peralta OA, Narbona E, McCoard S, Lira, R, De los Reyes M, González-Bulnes A, Parraguez VH. Maternal supplementation with antioxidant vitamins in sheep results in increased transfer to the fetus and improvement of fetal antioxidant status and development. *Antioxidants* 2019, 8, 59; doi:10.3390/antiox8030059. IF: 0,847. (Q1).
5. Martínez-Ros P, Ríos-Abellán A, González-Bulnes A. Influence of progesterone-treatment length and eCG administration on appearance of estrus behavior, ovulatory success and fertility in sheep. *Animals* 2019, 9, 9; doi:10.3390/ani9010009. IF: 1,654. (Q1).
6. Martínez-Ros P, Astiz S, García-Rosello E, Ríos-Abellán A, González-Bulnes A. Onset of estrus and preovulatory LH surge and ovulatory efficiency in sheep after short-term treatments with progestagen-sponges and progesterone-CIDRs. *Reprod Dom Anim* 2019, 54, 408-411. IF: 1,422. (Q2).
7. Sales F, Peralta OA, Narbona E, McCoard S, De los Reyes M, González-Bulnes A, Parraguez VH. Rapid Communication: Maternal melatonin implants improve fetal oxygen supply and body weight at term in sheep pregnancies. *J Anim Sci* 2019, 97, 839–845. IF: 1,714. (Q1).
8. Martínez-Ros P, Astiz S, García-Rosello E, Ríos-Abellán A, González-Bulnes A. Effects of short-term intravaginal progestagens on the onset and features of estrus, preovulatory LH surge and ovulation in sheep. *Anim Reprod Sci* 2018, 197, 317-323. IF: 1,647. (Q1).
9. Martínez-Ros P, Lozano M, Hernández F, Tirado A, Ríos-Abellán A, López-Mendoza MC, González-Bulnes A. Intravaginal device-type and treatment-length for ovine estrus synchronization modify vaginal mucus and microbiota and affect fertility. *Animals* 2018, 8, 226; doi:10.3390/ani8120226. IF: 1,654. (Q1).
10. Pesantez-Pacheco JL, Torres-Rovira L, Hernandez F, Sanz-Fernandez MV, Villalobos NP, Heras-Molina A, Garcia-Contreras C, Vazquez-Gomez M, Martinez-Ros P, Gonzalez-Martin JV, Gonzalez-Bulnes A, Astiz S. Efficiency and demographics of a high-yield dairy ewe farm with two managing systems involving five or 10 lambings per year. *Animal* 2018, 12, 2181-2190. IF: 1,870. (Q1).

C.2. Research projects and grants (last 5 years)

1. Individual and nutritional factors determining the homogeneity and yields of Iberian pig production. Proyectos I+D+i (RETOS). MINECO. 2017-2019. IP proyecto coordinado

2. Metformin in IUGR pregnancies: A paradoxical use for a hypoglycemic agent. Proyectos I+D+i (EXPLORA). MINECO. 2017-2018. IP proyecto
3. In vitro 3-D total cell guidance and fitness (CELLFIT). COST Action OC-2016-1-20867. European Union. 2017-2020. Investigador colaborador
4. Role of hypoxia and oxidative stress in restriction of fetal growth in lambs with twin pregnancies and / or undernourishment: intervention with antioxidants. FONDECYT CHILE 1160892. 2016-2018. Investigador colaborador
5. Maternal adaptations to developmental programming depending on offspring sex. CPR-ITALIA- 78167. 2016-2017. Investigador colaborador
6. BM1308. Sharing advances in genetic engineering and phenotyping of non-rodent mammals to develop predictive animal models for translational medicine (SALAAM). COST Actions of European Union. 2014-2017. Co-líder de Work Package 2.
7. AGL2013-48121-C03-2R. The relative roles of metabolic imbalance and oxidative stress on developmental programming of the phenotype in Iberian pigs. Proyectos I+D+i (RETOS). MINECO. 2014-2016. IP subproyecto.
8. FA1201. Epigenetics and periconception environment (EPICONCEPT). COST Action of European Union. 2013-2016. Investigador colaborador

C.3. Contracts

Swine nutrition and intestinal health. PigChamp Pro Europa, S.L. 2018-2019.

Determination of progesterone in ovine serum and plasma for evaluation of reproductive activity. Clinobs, S.L. 2018

C.4. Patents

Método de inducción y sincronización de la ovulación para la inseminación artificial sistemática en ganado caprino. ES 2235654.

C.5. International positions

Board Member of the PhD Course of Veterinary Sciences of the University of Sassari (Italy).

Expert of STAR-IDAZ. Foresight Activities Undertaken to Support the Updating and Expansion of the Scope of the European Strategic Research Agenda on Animal Health and Welfare

C.6. Institutional responsibilities

Member of the Scientific Ethic Committee of the Public Research Organizations (OPIs) of the Ministry of Economy and Competitiveness (Spain). 2013-

C.7. Lectures in international scientific meetings (last 3 years, excepting the current year)

1. State of the art and perspectives of innovation in Multiple Ovulation and Embryo Transfer protocols in sheep. XX. Congreso Internacional de Ovinocultura. Pachuca de Soto, Hidalgo (Mexico), 24-26 October 2018.
2. Hormonal methods for synchronization of cycles and ovulations in small ruminants. XIX Congreso Internacional de la Sociedad Española de Ovinotecnia y Caprinotecnia (SEOC). Salamanca (Spain), 19-21 September 2018.
3. Sustainable management of reproduction in small ruminants. 2018 Reunion Bianual sobre Reproduccion Animal. Valle de Bravo (Mexico), 22-23 May 2018.

4. Implications of prenatal programming and epigenetics on small ruminant production. XVIII Congreso Internacional de la Sociedad Española de Ovinotecnia y Caprinotecnia (SEOC). Salamanca (Spain), 20-22 September 2017.
5. Advances in embryo transfer in small ruminants. X Congreso de la Asociación Latinoamericana de Especialistas en Pequeños Rumiantes y Camélidos Sudamericanos (ALEPRYCS). Punta Arenas (Chile). 2-4 May 2017.
6. Developmental Origins of Health and Disease in swine: implications for animal production and biomedical research. International Congress on Animal Reproduction. Tours (France). 26-30 June 2016.

C.8. Reviewer for competitive funding bodies

1. AGAE (Agencia Andaluza de Evaluación de la Calidad y Acreditación Universitaria, Spain).
2. AgreeSkills (European Commission).
3. ANEP (Agencia Nacional de Evaluación y Prospectiva, Spain)
4. ANPCyT-FONCyT (Agencia Nacional de Promoción Científica y Tecnológica, Argentina).
5. BBSRC (Biomedicine and Biological Science Research Committee, United Kingdom)
6. CSIC (Comisión Sectorial de Investigación Científica, Uruguay)
7. HMRF (Health and Medical Research Fund, Hong Kong).
8. InnoCash (Fundacion Española de Ciencia y Tecnología, Spain)
9. FCT (Fundação para a Ciência e a Tecnologia, Portugal)
10. Marie S. Curie (European Commission)
11. NRF (National Research Foundation, South Africa)
12. The Wellcome Trust (United Kingdom).
13. FONDECYT (Fondo Nacional de Desarrollo Científico y Tecnológico, Chile)
14. DFF-YDUN (Danish Council for Independent Research, Denmark)
15. ANR (Agence Nationale de la Recherche, France)
16. DAAD (Deutscher Akademischer Austauschdienst, Germany)
16. NCN (National Science Centre, Poland)

C.9. Editor in Scientific Journals

1. PLOS ONE
2. Animals
3. Asian Pacific Journal of Reproduction
3. Dataset Papers in Biology
4. ISRN Anatomy
5. Physiology Journal