

CV Date	18/12/2023
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Part A. PERSONAL INFORMATION

First Name	Luis		
Family Name	Anel López		
Sex	Male	Date of Birth	27/07/1986
ID number Social Security, Passport	09808711Q		
URL Web	https://www.researchgate.net/profile/Luis_Anel_Lopez		
Email Address	lanel@unileon.es		
Open Researcher and Contributor ID (ORCID)	0000-0001-7179-5742		

A.1. Current position

Job Title	Profesor Titular de Universidad		
Starting date	2022		
Institution	Universidad de León		
Department / Centre	Medicina, Cirugía y Antatomía Veterianaria / Facultad de Veterinaria		
Country		Phone Number	
Keywords	Artificial insemination; Animal reproduction		

A.2. Previous positions (Research Career breaks included)

Period	Job Title / Name of Employer / Country
2018 - 2022	Profesor Ayudante Doctor / Universidad de León
2017 - 2018	Investigador-Doctor / Universidad de León / Spain
2017 - 2017	Doctor / Universidad de León
2016 - 2017	Doctor / Universidad de Castilla-La Mancha
2016 - 2016	Doctor / Universidad de León
2016 - 2016	Doctor / Universidad de León
2015 - 2015	Licenciado / Universidad de Castilla-La Mancha
2010 - 2015	PhD Student / Universidad de Castilla-La Mancha

A.3. Education

Degree/Master/PhD	University / Country	Year
Programa Oficial de Doctorado en Investigación Básica y Aplicada en Recursos Cinegéticos	Universidad de Castilla-La Mancha	2016
Master en Investigación Básica y Aplicada en Recursos Cinegéticos	Universidad de Castilla-La Mancha	2011
Master Universitario en Investigación Veterinaria y Ciencia y Tecnología de los Alimentos	Universidad de León	2011
Licenciado en Veterinaria Especialidad Medicina y Sanidad Animal	Universidad de León	2009

Part B. CV SUMMARY

Dr. Luis Anel López received his veterinary Degree's at the Veterinary Faculty of the Leon University in 2009. Next, he conducted his firs Master (Máster en investigación en veterinaria y ciencia y tecnología de los alimentos) in the same Faculty 2010. In 2010 he conducted his second Master Degree's and Ph.D. studies (Finished in January 2016) in the Research Institute of Game Resources (IREC: CSIC-UCLM-JCCM) of the Castilla La Mancha University. The candidate obtained the grant "Formación de Personal Investigador (FPI-JCCM 2010-2015)".

He made two scientific stays in the public R&D center during his Ph.D. studies: 1) Swedish University of Agricultural Sciences (Uppsala) and 2) Veterinary Faculty from León University. Next, the Candidate carried out 2 scientific stays in public R&D center as Post-Doc: 1) Swedish University of Agricultural Sciences (Uppsala) and 2) Università degli studi di Sassari Since.

He has participated in 10 research projects and 3 Ar.83 contracts and founded through competitive calls of public entities and carry out 34 scientific communications in national and international conferences. The candidate is author or co-author of 47 peer review scientific papers related to spermatology and andrology in different international Journals. He is a member of the AERA (Asociación Española de Reproducción Animal). In the same way, the candidate participates as an expert reviewer in six international Journals: 1) Reproduction in Domestic Animals; 2) Cryobiology; 3) Theriogenology; 4) Animal Production Science; 5) Scientific Reports (Nature), 6) Animals (MDPI) (also as guest editor in a special issue).

Finally, the candidate has received the positive accreditation for the following figures by the ANECA (Agencia Nacional de Evaluación de la Calidad y Acreditación) during 2016: "Profesor Ayudante Doctor", "Profesor de Universidad Privada", "Profesor Contratado Doctor". In 2021 received the positive accreditation for the figure of "Profesor Titular de Universidad".

Since 2022 he is "Profesor Titular de Universidad" in the Veterinary Medicine, Surgery and Anatomy Department (University of León). Currently the candidate directs 4 doctoral thesis. He has also directed 2 final master's project and 20 final degree projects.

Citations: 570 (Web of Science) /// 597 (Scopus)

H index: 14 (Web of Science) /// 16 (Scopus)

H index excluding self citation: 15 (Scopus)

Research Gate score: 30,84 Better than 90%

Top h cited research: Reduced glutathione and Trolox (vitamin E) as extender supplements in cryopreservation of red deer epididymal spermatozoa (34 cites excluding self-citation)

Scientific papers with international collaboration: 16 of all 47

Scientific papers in the first quartile JCR (Q1-25%): 36 of all 47

Scientific papers in the first quartile Scopus SJR (Q1-25%): 47 of all 47

Scientific papers with the position of signature of the candidate is first, second, or corresponding author: 24 of all 47

Co-Authors: 76

Scientific communications submitted to international conferences: 34 of all 34

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (n° x / n° y): position / total authors. If applicable, indicate the number of citations

- 1 **Scientific paper**. Montes-Garrido, Rafael; Anel-Lopez, Luis; Riesco, Marta F.; et al; Alvarez, Mercedes. 2023. Does Size Matter? Testicular Volume and Its Predictive Ability of Sperm Production in Rams. ANIMALS. MDPI. 13-20. ISSN 2076-2615. WOS (0)
- 2 **Scientific paper**. Neila-Montero, Marta; Alvarez, Mercedes; Riesco, Marta F.; et al; Anel-Lopez, Luis. 2023. Ovine fertility by artificial insemination in the breeding season could be affected by intraseasonal variations in ram sperm proteomic profile. THERIOGENOLOGY. ELSEVIER SCIENCE INC. 208, pp.28-42. ISSN 0093-691X. WOS (0)

- 3 **Scientific paper.** Montes-Garrido, Rafael; Riesco, Marta F.; Anel-Lopez, Luis; et al; Alvarez, Mercedes. 2022. Application of ultrasound technique to evaluate the testicular function and its correlation to the sperm quality after different collection frequency in rams. FRONTIERS IN VETERINARY SCIENCE. FRONTIERS MEDIA SA. 9. ISSN 2297-1769. WOS (0)
- 4 **Scientific paper.** Neila-Montero, Marta; Riesco, Marta F.; Montes-Garrido, Rafael; et al; Anel-Lopez, Luis. 2022. An optimized centrifugation protocol for ram sperm ensuring high sample yield, quality and fertility. THERIOGENOLOGY. ELSEVIER SCIENCE INC. 191, pp.179-191. ISSN 0093-691X, ISSN 1879-3231. WOS (3)
- 5 **Scientific paper.** Palacin-Martinez, Cristina; Alvarez, Mercedes; Montes-Garrido, Rafael; Neila-Montero, Marta; Anel-Lopez, Luis; de Paz, Paulino; Anel, Luis; Riesco, Marta F.2022. Frequency of Semen Collection Affects Ram Sperm Cryoresistance. ANIMALS. MDPI. 12-12. ISSN 2076-2615. WOS (2)
- 6 **Scientific paper.** Hassan, Mohamed A. A.; Sayed, Ramy K. A.; Abdelsabour-Khalaf, Mohammed; et al; Alvarez, M.2022. Morphological and ultrasonographic characterization of the three zones of suprastesticular region of testicular artery in Assaf rams. SCIENTIFIC REPORTS. NATURE PORTFOLIO. 12-1. ISSN 2045-2322. WOS (2)
- 7 **Scientific paper.** (1/12) Anel-Lopez, Luis; Riesco, Marta F.; Montes-Garrido, Rafael; et al; Anel, Luis. 2021. Comparing the Effect of Different Antibiotics in Frozen-Thawed Ram Sperm: Is It Possible to Avoid Their Addition?. FRONTIERS IN VETERINARY SCIENCE. FRONTIERS MEDIA SA. 8. ISSN 2297-1769. WOS (2)
- 8 **Scientific paper.** Riesco, Marta F.; Alvarez, Mercedes; (3/9) Anel-Lopez, Luis (AC); et al; Anel, Luis. 2021. Multiparametric Study of Antioxidant Effect on Ram Sperm Cryopreservation-From Field Trials to Research Bench. ANIMALS. MDPI. 11-2. ISSN 2076-2615. WOS (1)
- 9 **Scientific paper.** Riesco, Marta F.; (2/8) Anel-Lopez, Luis (AC); Neila-Montero, Marta; Palacin-Martinez, Cristina; Montes-Garrido, Rafael; Alvarez, Mercedes; de Paz, Paulino; Anel, Luis. 2020. ProAKAP4 as Novel Molecular Marker of Sperm Quality in Ram: An Integrative Study in Fresh, Cooled and Cryopreserved Sperm. BIOMOLECULES. MDPI. 10-7. ISSN 2218-273X. WOS (6)
- 10 **Scientific paper.** Alvarez, Mercedes; (2/8) Anel-Lopez, Luis (AC); Carlos Boixo, Juan; Chamorro, Cesar; Neila-Montero, Marta; Montes-Garrido, Rafael; de Paz, Paulino; Anel, Luis. 2019. Current challenges in sheep artificial insemination: A particular insight. REPRODUCTION IN DOMESTIC ANIMALS. WILEY. 54, pp.32-40. ISSN 1439-0531. WOS (10)

C.2. Conferences and meetings

- 1 ; Ledda S; Idda A; Anel Lopez L; Gandolfi F; Brevin TAL. 3D Organoid Development inTransparent Liquid Marbles From Ovine Skin Fibroblasts and Rat Glioma Cells. In vitro 3D Total Cell Guidance and fitness. European Cooperation in Science and Technology. 2017. Bulgaria.
- 2 Anel, L.; Alvarez, M.; Anel-Lopez, L.; C Ortega-Ferrusola; Lopez-Uruena, E.; JC Bioxo; C Chamorro; De Paz, P.. Improving cervical insemination using high volume doses combined with bent catheters in the ewe. 18th International Congress on Animal Reproduction ICAR. ICAR. 2016. France. Poster.
- 3 ortiz Rodriguez JM; Rodriguez Medina P; Martin Muñoz P; Alvarez, M.; Anel-Lopez, L.; Anel, L.; Peña FJ; C Ortega-Ferrusola. The pulse Doppler ultrasoung of the intratesticular artery in stallions is a good indicator of sperm production. 18th International Congress on Animal Reproduction ICAR. ICAR. 2016. France. Poster.
- 4 Anel-Lopez, L.; Ortega-Ferrusola, C.; de Paz, P.; Chamorro, C.; Pena, F. J.; Boixo, J.; Anel, L.; Alvarez, M.. A preliminary study of instrumental alternatives on the ram sperm cryopreservation process under field conditions. 22nd Annual Conference of the European-Society-for-Domestic-Animal-Reproduction (ESDAR). European Soc Domest Anim Reprod.
- 5 Alvarez, M.; Montes-Garrido, R.; Riesco, M. F.; et al; Anel-Lopez, L.. Does double prostaglandin f2 alpha injection improve the fertility of ewes artificially inseminated by laparoscopic route?. 16th International Congress of the Spanish-Society-for-Animal-Reproduction (AERA). Spanish Soc Anim Reprod.

- 6 Anel-Lopez, L.; Neila-Montero, M.; Fernandez-Gonzalez, A.; et al; Alvarez, M.. Does fixation influence ram sperm morphology evaluation results?. 16th International Congress of the Spanish-Society-for-Animal-Reproduction (AERA). Spanish Soc Anim Reprod.
- 7 Del Olmo, E.; Garcia-Alvarez, O.; Maroto-Morales, A.; et al; Fernandez-Santos, M. R.. Electronic volume increases during capacitation in ram spermatozoa. 12th International Congress of the Spanish-Association-for-Animal-Reproduction. Spanish Assoc Anim Reprod.
- 8 Alvarez, M.; Ortega-Ferrusola, C.; Anel-Lopez, L.; Chamorro, C.; Pena, F. J.; Anel, L.; de Paz, P.. Evaluation of Pulse Doppler of the testicular artery and seminal production in normal and subfertile rams. 14th International Congress of the Spanish-Association-for-Animal-Reproduction (AERA). Spanish Assoc Anim Reprod.
- 9 Neila-Montero, M.; Riesco, M. F.; Palacin-Martinez, C.; Montes-Garrido, R.; De Paz, P.; Anel, L.; Alvarez, M.; Anel-Lopez, L.. Sperm collection frequency modifies ram sperm morphology. 16th International Congress of the Spanish-Society-for-Animal-Reproduction (AERA). Spanish Soc Anim Reprod.
- 10 Anel-Lopez, L.; Ortega-Ferrusola, C.; Alvarez, M.; Chamorro, C.; Pena, F. J.; Anel, L.; de Paz, P.. Testicular ultrasonography assessment reveals high correlation with sperm quality after cooling in ram semen. 14th International Congress of the Spanish-Association-for-Animal-Reproduction (AERA). Spanish Assoc Anim Reprod.

C.3. Research projects and contracts

- 1 **Project.** PID2021-122470OB-I00 NUEVAS TECNOLOGIAS APLICADAS A LA INTERPRETACION PRACTICA DE LOS DEFICITS FUNCIONALES DEL ESPERMATOZOIDE DE CARNERO DURANTE LA CONSERVACION LIQUIDA A 5°C HASTA 72H.. Ministerio de Ciencia e Innovación.. Luis Anel López. (Universidad de León). 01/09/2022-31/08/2026. 222.640 €.
- 2 **Project.** Omics for improving the effectiveness of germplasm banks: the Brown bear (Ursus arctos) model. Ministerio de Ciencia e Innovación.. Luis Anel Rodriguez. (Universidad de León). 01/12/2022-30/11/2024. 172.500 €.
- 3 **Project.** DISEÑO DE UN PANEL DE EVALUACIÓN ANDROLÓGICA EN EL CARNERO. Junta de Castilla y León. L. Anel. (Universidad de León). 01/01/2019-31/12/2021. 120.000 €.
- 4 **Project.** Estrategias para mejorar la eficacia de la inseminación artificial ovina. MINECO. (Universidad de León). 01/01/2018-31/12/2021. 193.600 €.
- 5 **Project.** Aplicación de Mejora en la Técnica de Inseminación Artificial Ovina. Cooperativa Asovinos. (Universidad de León). 01/07/2016-14/10/2016. 32.000 €.
- 6 **Project.** Aproximación a un Modelo de Inseminación Artificial en el Oso Pardo. MINECO. (Universidad de León). 01/02/2016-30/06/2016. 121.000 €.
- 7 **Project.** Uso de la motilidad espermática para la evaluación del semen de morueco. (Universidad de Castilla-La Mancha). 05/02/2015-05/12/2015. 165.200 €.
- 8 **Contract.** ART. 83. Efecto de la frecuencia de recogida de eyaculados, en un centro de sementales ovinos, sobre la calidad seminal y la fertilidad. ASSAFE. Mercedes Alvarez Rodriguez. 28/03/2023-27/03/2025.
- 9 **Contract.** ART. 83. Programa de control reproductivo del oso pardo en el Parque de la Naturaleza de Cabárceno. CANTUR. Mercedes Alvarez Rodriguez. 01/01/2021-01/01/2025.
- 10 **Contract.** Art. 83. Servicios técnicos en reproducción animal. Entidades diversas. Luis Anel Rodriguez. 14/12/2012-14/12/2021. 110.197,83 €.