

PERSONAL INFORMATION Esperanza Gomez-Lucia

WORK EXPERIENCE

October 1985- Present **Full Professor**
Universidad Complutense de Madrid (Spain)
Teaching of Virology, Immunology and Microbiology.
Research on retroviruses and papillomaviruses.

EDUCATION AND TRAINING

September 1975-July 1980 **DVM**
Universidad Complutense de Madrid (Spain)

October 1980-October 1985 **Ph.D.**
Universidad Complutense de Madrid (Spain)

ADDITIONAL INFORMATION

Expertise Virology
Retroviruses
Animal retroviruses
Molecular biology
Diagnosis of viral diseases

Publications Arjona, A., Barquero, N., Doménech, A., Tejerizo, G., Collado, V.M., Tournal, C., Martin, D., Escolar, E., Gomez-Lucia, E. Evaluation of a novel nested PCR for the routine diagnosis of feline leukemia virus (FeLV) and feline immunodeficiency virus (FIV) infections. J. Fel. Med. Surg., 9:14-22 (2007).

Miró,G., Doménech,A., Escolar,E., Collado,V.M., Tejerizo,G., de las Heras,A., and Gómez-Lucía,E. Plasma electrophoretogram in feline immunodeficiency virus (FIV) and/or feline leukaemia virus (FeLV) infections. J. Vet. Med. A, 54:203-209 (2007).

Collado, V.M., Gómez-Lucía, E., Tejerizo, G., Miró, G., Escolar, E., Martín, S., Doménech, A. Effect of type-I interferons on the expression of feline leukemia virus. Vet. Microbiol., 123:180-186 (2007).

Luaces López, I., Collado, V.M., García Montijano, M., Doménech, A., Sánchez, C., Tejerizo, J.G., Galka, M., Fernández, P., Gomez-Lucia, E. Feline leukemia virus in the endangered Iberian lynx (Lynx pardinus). J. Vet. Diagn. Invest. 20(3): 381-385 (2008).

Doménech, A., Tejerizo, G., Illera, J.C., Gómez-Lucía, E. Effect of male steroid hormones on retroviral infections. Current Topics in Steroid Research 6: 69-81. ISSN: 0972-4788 (2009).

Barquero, N., Arjona, A., Domenech, A., Tournal, C., de las Heras, A., Fernández-Garayzabal, J.F., Ruiz-Santa Quiteria, J.A., Gomez-Lucia, E. Diagnostic performance of PCR and ELISA on blood and milk samples and serological survey for small ruminant lentiviruses in central zone of Spain. Vet. Rec. 168:20 doi:10.1136/vr.c4951 (2011).

Domenech, A., Miro, G., Collado, V.M., Ballesteros, N., Sanjose, L., Escolar, E., Martin, S., Gomez-Lucia, E. Use of recombinant interferon omega in feline retrovirois: from theory to practice. Vet. Immunol. Immunopathol. (2011), 143: 301-306. doi:10.1016/j.vetimm.2011.06.008

Tejerizo, G., Doménech, A., Illera, J.C., Silván, G., Gómez-Lucía, E. Altered plasma concentrations of sex hormones in cats infected by feline immunodeficiency virus or feline leukemia virus. Domestic Animal Endocrinology 42 113-120. doi:10.1016/j.domaniend.2011.11.001. (2012)

Collado, V.M., Domenech, A., Miro, G., Martin, S., Escolar, E., Gomez-Lucia, E.

Epidemiological aspects and clinicopathological findings in cats naturally infected with feline leukemia virus (FeLV) and/or feline immunodeficiency virus (FIV). *Open Journal of Veterinary Medicine* (2012) 2, 13-20.

Gomez-Lucia, E., Rowe, J., Collar, C., Murphy, B. Diversity of caprine arthritis-encephalitis virus promoters isolated from goat milk and passaged in vitro. *Vet J.* doi:pii: S1090-0233(12)00458-3. 10.1016/j.tvjl.2012.10.023. (2013)

Barquero, N., Domenech, A., Arjona, A., Fernández-Garayzabal, J.F., Ruiz-Santa-Quiteria, J.A., Gomez-Lucia, E. Comparison of two PCR and one ELISA techniques for the detection of small ruminant lentiviruses (SRLVs) in milk of sheep and goats. *Res. Vet. Sci.*

<http://dx.doi.org/10.1016/j.rvsc.2013.01.004> (2013).

Adedeji, A.O., Barr, B., Gomez-Lucia, E., Murphy, B. A polytropic caprine arthritis encephalitis virus promoter isolated from multiple tissues from a sheep with multisystemic lentivirus-associated inflammatory disease. *Viruses*, 5(8), 2005-2018; doi:10.3390/v5082005. ISSN 1999-4915.

(2013)

Gomez-Lucia, E., Sanjosé, L., Crespo, O., Reina, R., Glaria, I., Ballesteros, N., Amorena, B., Domenech, A. Modulation of the long terminal repeat promoter activity of small ruminant lentiviruses by steroids. *The Veterinary Journal* (2014) 202, 323-328. S1090-0233(14)00324-4. doi: 10.1016/j.tvjl.2014.08.003.

Bok, H.G.J., Teunissen, P.W., Boerboom, T.B.B., Rhind, S.M., Baillie, S., Tegzes, J., Anandale, H., Matthew, S., Torgerson, A., Hecker, K.G., Härdi-Landerer, C., Gomez-Lucia, E., Ahamad, B., Muijtjens, A.M.M., Jaarsma, D.A.D.C., van der Vleuten, C.P.M., van Beukelen, P. International survey of veterinarians to assess the importance of competencies in professional practice and education. *JAVMA* (2014) October 15, 245(8) 906-913. doi: 10.2460/javma.245.8.906.

Escudero Duch, C., Vázquez Díaz, R., Doménech Gómez, A., Gomez-Lucia, E., Benítez Rico, L. First report of a variant bovine papillomavirus type 2 (BPV-2) in cattle in the Iberian Peninsula. *Vet. Ital.* (2014) Sep 30; 50(3) 219-226. doi 10.12834/VetIt.248.836.4.

Barquero, N., Gómez-Lucía, E., Arjona, A., Toural, C., Las Heras, A., Fernández-Garayzabal, J.F., Domenech, A. Evolution of specific antibodies and proviral DNA in milk of small ruminants infected by Small Ruminant Lentiviruses. *Viruses* (2013), 5, 2614-1623. doi:10.3390/v5102614. ISSN 1999-4915.

Editor of Textbook of Veterinary Immunology

Gómez-Lucía, E., Collado, V.M., Miro, G., Martin, S., Domenech, A. Type I Interferons and Their Efficacy in Treating Feline Retroviral Diseases: A Re-view. *Jacobs Journal of Veterinary Science and Research* (2015) 1(5), 027: 1-6. (ISSN: 2379-5255).

Gómez-Lucía, E., Barquero, N., Domenech, A. Maedi-Visna virus: current perspectives. *Veterinary Medicine: Research and Reports* (2018) 9: 11-21. (<https://doi.org/10.2147/VMRR.S136705>)

de Pablo-Maiso, L., Doménech, A., Echeverría, I., Gómez-Arrebola, C., de Andrés, D., Rosati, S., Gómez-Lucía, E., Reina, R. Prospects in innate immune responses as potential control strategies against non-primate lentiviruses. *Viruses* (2018) 10: 435-467. (doi:10.3390/v10080435).

Gomez-Lucia, E.; Logue, C.; Szyndel, M.; Lavigne, R. Innovative teaching in the modern age goes viral. *Nature Microbiology* (2019) vol 4, april: 562564. <https://doi.org/10.1038/s41564-019-0389-6>.

Fernandez-Correa, I.; Truchado, D.A., Gomez-Lucia, E.; Doménech, A.; Pérez-Tris, J.; Schmidt-Chanasit, J.; Cadar, D.; Benítez, L. A novel group of avian astroviruses from Neotropical passerine birds broaden the diversity and host range of Astroviridae. *Sci Rep.* 2019 Jul 2;9(1):9513. doi: 10.1038/s41598-019-45889-3.

Murcia-Belmonte, A.; Álvarez, D; Ortega, N.; Navarro, J.A.; Gómez-Lucía, E.; Buendía, A.J.; Sánchez, J.; del Río, L.; Salinas, J.; Caro, M.R. Effect of progesterone on the vaccination and immune response against *Chlamydia abortus* in sheep. *Vet. Immunol. Immunopathol* (2019) 213, 109887. doi: 10.1016/j.vetimm.2019.109887.

Gomez-Lucia, E.; Collado, V.M.; Miro, G.; Martin, S.; Benitez, L.; Domenech, A. Follow-Up of Viral Parameters in FeLV- or FIV-Naturally Infected Cats Treated Orally with Low Doses of Human Interferon Alpha. *Viruses* (2019), 11, 845; doi:10.3390/v11090845.

Truchado, D.A.; Diaz-Piqueras, J.M.; Gomez-Lucia, E.; Doménech, A.; Milá, B.; Pérez-Tris, J.; Schmidt-Chanasit, J.; Cadar, D.; Benítez, L. A Novel and Divergent Gyrovirus with Unusual Genomic Features Detected in Wild Passerine Birds from a Remote Rainforest in French Guiana. *Viruses* (2019), 11(12). pii: E1148. doi: 10.3390/v11121148.

Gomez-Lucia, E.; Collado, V.M.; Miro, G.; Martin, S.; Benitez, L.; Domenech, A. Clinical and hematological follow-up of long-term oral therapy with type-I interferon in cats naturally-infected with feline leukemia virus or feline immunodeficiency virus. *Animals* (2020) 10, 1464; 14 p. doi:10.3390/ani10091464.

Truchado, D.A.; Llanos-Garrido, A.; Oropesa-Olmedo, D.A.; Cerrada, B.; Cea, P.; Moens, M.A.J.; Gomez-Lucia, E.; Domenech, A.; Milá B.; Pérez-Tris, J.; Cadar, D.; Benitez, L. Comparative metagenomics of palearctic and neotropical avian cloacal viromes reveal geographic bias in virus discovery. *Microorganismos* (2020), 8, 1869; doi:10.3390/microorganisms8121869.

Projects

Interferon: therapeutic possibilities in two animal models (FIV and FeLV) and study of its mechanism of action. Complutense Research Projects. INV.PR.00.0808.15925.

UCM Research Group 920620. Animal retroviruses UCM 920620. GR74/07 - application CCG07-UCM/BIO-2660.

Small ruminants retroviruses (Maedi-Visna, MVV): effect of steroid hormones and prolactin. CICYT. AGL2008-04240.

Innovation in teaching, training and dissemination of virology. Unión Europea. 2014-1-ES01-KA203-004962.

Development of universal DIVA vaccines against bluetongue virus. AGL2017-82570-R.

Ecological impact of infectious diseases and their influence on mutualistic networks. 2018. CGI2017-82117-P.

Memberships

Spanish Society for Virology (SEV): Directive body

American Society for Virology (ASV)

European Society for Virology (ESV)

Spanish Society for Microbiology. Group of Teaching and Difussion of Microbiology (D+D SEM) Directive body

Guest Editor of the Special Issue on Small Ruminant Research of the Journal *Viruses* ISSN 1999-4915

Fellowships held
Fulbright: Food Research Institute, Madison, WI, USA, 12 mo 1983 - staphylococcal enterotoxins.

Visiting Fellow: Harvard School Public Health, Boston, MA, USA, 18 mo 1989-90.

Spanish Ministry of Science and Education: Oregon Health Sciences University, Portland, OR, USA, 12 mon 1996.

V Joined Commission for Scientific-Technological Cooperation: National Veterinary Research Institute, Pulawy, Poland, 2 w, 2000.

Erasmus: Ludwig-Maximilians-Universität, München, DE, 1 w, 2011

UCM-del Amo: Veterinary Medicine School, UC Davis, CA, 4 mo, 2012.

Other Relevant Information