

**LISTADO DE ARTÍCULOS CIENTÍFICOS
(desde 2013 a 2021)**

*LIST OF SCIENTIFIC PAPERS
(from 2013 to 2021)*

- 1) Abi Khalil R, Barbier B, Fafournoux A, Mahamat AB, Marquez A, Poissenot K, Keller M, Desvars-Larrive A, Fernandez-De-Simon J, Coeurdassier M, Benoit E, Lefebvre S, Pinot A, Lattard V. (2021). Seasonal diet-based resistance to anticoagulant rodenticides in the fossorial water vole (*Arvicola amphibius*). *Environmental Research*, 200, 111422. <https://doi.org/10.1016/j.envres.2021.111422>
- 2) Aguilera-Alcalá N, Arrondo E, Pascual-Rico R, Morales-Reyes Z, Gil-Sánchez JM, Donázar JA, (...), Sánchez-Zapata JA. (2021). The value of transhumance for biodiversity conservation: Vulture foraging in relation to livestock movements. *Ambio*, 1-13.
- 3) Arregui L, Garde JJ, Soler AJ, Espeso G, Roldan ERS. (2021) Effect of Season and Social Environment on Semen Quality and Endocrine Profiles of Three Endangered Ungulates (*Gazella cuvieri*, *G. dorcas* and *Nanger dama*). *Animals (Basel)*. 11(3):901. doi: 10.3390/ani11030901. PMID:33809860; PMCID: PMC8004267.
- 4) Artigas-Jerónimo S, Villar M, Cabezas-Cruz A, Caignard G, Vitour D, Richardson J, Lacour S, Attoui H, Bell-Sakyi L, Allain E, Nijhof AM, Miletzi N, Pinecki S, de la Fuente J. (2021) Tick Importin- α is implicated in the interactome and regulome of the cofactor Subolesin. *Pathogens* 10: 457.
- 5) Artigas-Jerónimo S, Villar M, Estrada-Peña A, Velázquez-Campoy A, Alberdi P, de la Fuente J. (2021) Function of cofactor Akirin2 in the regulation of gene expression in model human Caucasian neutrophil-like HL60 cells. *Bioscience Reports* 41: BSR20211120.
- 6) Bamgbose T, Anvikar AR, Alberdi P, Abdullahi IO, Inabo HI, Bello M, Cabezas-Cruz A, de la Fuente J. (2021) Functional food for the stimulation of the immune system against malaria. *Probiotics and Antimicrobial Proteins* 13: 1254-1266. *Malaria World*: <https://www.malariaworld.org/article/functional-food-stimulation-immune-system-against-malaria>.
- 7) Barasona J, Carpio AJ, Boadella M, Gortazar C, Piñeiro X, Zumalacárregui C, Vicente J, Viñuela J. (2021). Expansion of native wild boar populations is a new threat for semi-arid wetland areas. *Ecological Indicators*, 125, 107563. <https://doi.org/10.1016/j.ecolind.2021.107563>
- 8) Bárcena B, Salamanca A, Pintado C, Mazuecos L, Villar M, Moltó E, Bonzón-Kulichenko E, Vázquez J, Andrés A, Gallardo, N. (2021) Aging induces hepatic oxidative stress and nuclear proteomic remodeling in liver from wistar rats. *Antioxidants (Basel)*. 10(10):1535.
- 9) Barroso P, Acevedo P, Vicente J. (2021) The importance of long-term studies on wildlife diseases and their interfaces with humans and domestic animals-a review. *Transboundary and Emerging Diseases - Artículo (Q1)* 68: 1895-1909 DOI: 10.1111/tbed.13916

- 10) Barroso P, Risalde MA, García-Bocanegra I, Acevedo P, Barasona JA, Palencia P, Carro F, Jimenez-Ruiz S, Pujols J, Montoro V, Vicente J. (2021) Long-term determinants of the seroprevalence of the bluetongue virus in deer species in southern Spain. *Research in Veterinary Science - Artículo (Q1)*. 139: 102-111 DOI: 10.1016/j.rvsc.2021.07.001
- 11) Barroso P, Risalde MA, Garcia-Bocanegra I, Acevedo P, Barsona JA, Caballero-Gómez J, Jimenez-Ruiz S, Rivero-Juárez A, Montoro V, Vicente J. (2021) Long-term determinants of the seroprevalence of the hepatitis e virus in wild boar (*Sus scrofa*). *Animals - Artículo (Q1)*. 11: 1805 DOI: 10.3390/ani11061805
- 12) Boklund, A., Gortázar, C., Pasquali, P., (...), Melidou, A., Mirinaviciute, G. 2021. Monitoring of SARS-CoV-2 infection in mustelids. *EFSA Journal* 19(3),e06459.
- 13) Cabezas-Cruz A, Hodžić A, Mateos-Hernández L, Contreras M, de la Fuente J. (2021) Tick-human interactions: from allergic klendusity to the α -Gal syndrome. *Biochemical Journal* 478: 1783-1794.
- 14) Cabo Nieves JC, Green AJ, Höfle U, Concepción D. (2021) Garcillas buayeras de Lanzarote: una amenaza para la biodiversidad de la isla. *Quercus* 421, 18-25.
- 15) Camargo AJC, Barasona J, Acevedo P, (...), Moreno Á, Vicente J. (2021) Assessing red deer hunting management in the Iberian Peninsula: The importance of longitudinal studies. *PeerJ* 9,10872.
- 16) Cardoso B, García-Bocanegra I, Acevedo P, Cáceres C, Alves PC, Gortázar C. (2021) Stepping up from wildlife disease surveillance to integrated wildlife monitoring in Europe. *Research in Veterinary Science - Artículo (Q1)* DOI: 10.1016/j.rvsc.2021.11.003
- 17) Carlson, C.J., Torres Codeço, C., Brauer, M., Evengård, B., Cai, W., de la Fuente, J., Rautio, A. (2021) Climate and health: An evolving relationship (de la Fuente, J. Tick-host-pathogen interactions and climate change). *Med* 2: 344-347. <https://doi.org/10.1016/j.medj.2021.03.007>
- 18) Carpio, A.J., Barasona, J.A., Acevedo, P., Vidal, M., Rodriguez-Vigal, C., Moreno, A., Fierro, Y., Vicente, J. (2021) La caza como herramienta de gestión. Menos densidad es más caza. *Trofeo*, noviembre 2021, 32-39.
- 19) Carpio AJ, Apollonio M, Acevedo P. (2021) Wild ungulate overabundance in Europe: contexts, causes, monitoring and management recommendations. *Mammal Review - Artículo (Q1)* 51: 95-108 DOI: 10.1111/mam.12221
- 20) Carpio AJ, Barasona JA, Acevedo P, Fierro Y, Gortazar C, Rodriguez-Vigal C, Moreno A, Vicente J. (2021) Assessing red deer hunting management in the Iberian Peninsula: the importance of longitudinal studies. *PeerJ - Artículo (Q2)* 9: e10872 DOI: 10.7717/peerj.10872
- 21) Carpio AJ, Melo-Ferreira J, M. Martínez-Haro, L. Farelo, R. Campos, P.C. Alves, P. Acevedo. (2021) Iberian hares with anciently introgressed mitochondrial DNA express a

- marginal environmental niche. *Journal of Biogeography* - Artículo (Q1). 48: 2328-2336
DOI: 10.1111/jbi.14155
- 22) Castro J, Tortosa FS, Carpio AJ. (2021). Structure of canopy and ground-dwelling arthropod communities in olive orchards is determined by the type of soil cover. *European Journal of Entomology*, 118: 159–170. doi: 10.14411/eje.2021.017
- 23) Castro-Scholten S, Cano-Terriza D, Jimenez-Ruiz S, Almería S, Risalde MA, Vicente J, Acevedo P, Arnal MC, Balseiro A, Gómez-Guillamón F, Escribano F, Puig-Ribas M, Dubey JP, I. García-Bocanegra. (2021) Seroepidemiology of *Toxoplasma gondii* in wild ruminants in Spain. *Zoonoses and Public Health* - Artículo (Q1) 68, 884-895 DOI: 10.1111/zph.12878
- 24) Charre-Medellin P, Monterrubio-Rico TC, Acevedo P, Guzmán-Díaz EO, Jiménez J. (2021) Jaguar (*Panthera onca*) density in the Sierra Madre del Sur; the last wilderness area in the central-western slope in Mexico. *Studies on Neotropical Fauna and Environment*. DOI: 10.1080/01650521.2021.1895572
- 25) Contreras M, Peres Rubio C, de la Fuente J, Villar M, Merino O, Mosqueda J, Cerón JJ. (2021) Changes in serum biomarkers of oxidative stress in cattle vaccinated with tick recombinant antigens: a pilot study. *Vaccines* 9: 5.
- 26) Cuadrado E, Macias-Zambrano LH, Carpio AJ, Tabernero C. (2021) The moderating effect of collective efficacy on the relationship between environmental values and ecological behaviors. *Environment, Development and Sustainability*, 1-28.
<https://doi.org/10.1007/s10668-021-01611-w>
- 27) Cuadrado-Matías R, Cardoso B, Sas MA, García-Bocanegra I, Schuster I, Gonzalez-Barrio D, Reiche S, Mertens M, Cano-Terriza D, Casades-Martí L, Jimenez-Ruiz S, Martínez-Guijosa J, Fierro Y, Gómez-Guillamón F, Gortázar C, Acevedo P, Groschup MH, Ruiz-Fons F. (2021) Red deer reveal spatial risks of Crimean-Congo haemorrhagic fever virus infection. *Transboundary and Emerging Diseases* - Artículo (Q1). DOI: 10.1111/tbed.14385
- 28) de la Fuente J, Artigas-Jerónimo S, Villar M. (2021) Akirin/Subolesin regulatory mechanisms at host/tick-pathogen interactions. *microLife uqab012*,
<https://doi.org/10.1093/femsm/luqab012>.
- 29) de la Fuente J, Contreras M. (2021) Vaccinomics: a future avenue for vaccine development against emerging pathogens. *Expert Review of Vaccines*,
<https://doi.org/10.1080/14760584.2021.1987222>. Researcher: <https://www.researcher-app.com/paper/9240557?withStats>
- 30) de la Fuente J, Fernández de Mera I G, Gortazar C. (2021) Challenges at the host-arthropod-coronavirus interface and COVID-19: A One Health approach. *Frontiers in Bioscience-Landmark* IF 3.875 Q1 ISSN 10934715 <http://doi.org/10.52586/4951>. 8: 379-386

- 31) de la Fuente J, Fernández de Mera IG, Gortázar, C. (2021) Challenges at the host-arthropod-coronavirus interface and COVID-19: A One Health approach. *Frontiers in Bioscience – Landmark* 26(8), pp. 379-386.
- 32) de la Fuente J, Gortázar C, Cabezas-Cruz A. (2021) Immunity to glycan α -Gal and possibilities for the control of COVID-19. *Immunotherapy* 13(3): 185-188. <https://doi.org/10.2217/imt-2020-0247>.
- 33) de la Fuente J, Pastor Comín JJ, Gortázar C. (2021) The sound of host-SARS-CoV-2 molecular interactions. *The Innovation* 2: 100126. doi: <https://doi.org/10.1016/j.xinn.2021.100126>
- 34) de la Fuente, J, Urra, JM, Contreras, M, Pacheco, I., Ferreras-Colino, E., Doncel-Pérez, E., Fernández de Mera, I.G., Villar, M., Cabrera, C.M., Gómez Hernando, C., Vargas Baquero, E., Blanco García, J., Rodríguez Gómez, J., Velayos Galán, A., Feo Brito, F., Gómez Torrijos, E., Cabezas-Cruz, A., Gortázar, C. (2021) A dataset for the analysis of antibody response to glycan alpha-Gal in individuals with immune-mediated disorders. *F1000Research* 9:1366 IF: 2.30 Q1 (<https://f1000research.com/articles/9-1366/v2>).
- 35) de la Fuente, J. (2021) Translational biotechnology for the control of ticks and tick-borne diseases. *Ticks and Tick-Borne Diseases* 12: 101738. <https://doi.org/10.1016/j.ttbdis.2021.101738>
- 36) de la Fuente, J., Armas, O., Sánchez-Rodríguez, L., Gortázar, C., Lukashev, A.N., COVID-BCG Collaborative Working Group. (2021) Citizen science initiative points at childhood BCG vaccination as a risk factor for COVID-19. *Transboundary and Emerging Diseases*. 68:3114-3119. <https://doi.org/10.1111/tbed.14097> Preprint: Authorea. December 2020. doi: 10.22541/au.160941731.13277490/v1 Docwirenews: <https://www.docwirenews.com/abstracts/citizen-science-initiative-points-at-childhood-bcg-vaccination-as-a-risk-factor-for-covid-19/>
- 37) de la Fuente J, Gortázar C. (2021) Investigaciones con colaboraciones multidisciplinares y una aproximación One Health para afrontar los retos asociados con COVID-19 y otras enfermedades infecciosas. *Lanza. Diario de la Mancha*. <https://www.lanzadigital.com/opinion/investigaciones-con-colaboraciones-multidisciplinares-y-una-aproximacion-one-health-para-afrontar-los-retos-asociados-con-covid-19-y-otras-enfermedades-infecciosas/>
- 38) de la Fuente J. (2021) Cuba, la involución de una revolución. *Lanza. Diario de la Mancha*. 23 julio 2021. <https://www.lanzadigital.com/opinion/cuba-la-involucion-de-una-revolucion/>
- 39) de la Fuente, J. 2021. The ancient Egyptian animalarium: a connection with human health. *International Journal of Humanities, Social Sciences and Education (IJHSSE)* 8(10): 164-168. <https://arcjournals.org/pdfs/ijhsse/v8-i10/15.pdf>
- 40) Delahay RJ, de la Fuente J, Smith GC, Sharun K, Snary EL, Flores Girón L, Nziza J, Fooks AR, Brookes SM, Lean FZX, Breed AC, Gortazar C. (2021) Assessing the risks of SARS-

- CoV-2 in wildlife. *One Health Outlook* 3:7. <https://doi.org/10.1186/s42522-021-00039-6>
Preprint: Preprints 2020, 2020120283 (doi: 10.20944/preprints202012.0283.v3)
- 41) Desmecht, D., Gerbier, G., Gortázar Schmidt, C., (...), Van der Stede, Y., Ståhl, K. 2021. Epidemiological analysis of African swine fever in the European Union (September 2019 to August 2020). *EFSA Journal* 19(5),e06572
- 42) Díaz-Sánchez S, Moraga Fernández A, Habela MA, Calero-Bernal R, Fernández de Mera IG, de la Fuente J. (2021) Microbial community of *Hyalomma lusitanicum* is dominated by Francisella-like endosymbiont. *Ticks and Tick-borne Diseases*. 12: 101624 IF: 3.744. Q1 <https://doi.org/10.1016/j.ttbdis.2020.101624>.
- 43) Escribano-Romero E, Jiménez de Oya N, Camacho MC, Blázquez AB, Martín-Acebes MA, Risalde MA, Muriel L, Saiz JC, Höfle U. (2021) Previous Usutu Virus Exposure Partially Protects Magpies (*Pica pica*) against West Nile Virus Disease But Does Not Prevent Horizontal Transmission. *Viruses*. 13(7):1409. doi: 10.3390/v13071409.
- 44) Fernández-de-Mera IG, Rodríguez del Río FJ, de la Fuente J, Pérez Sancho M, Hervás D, Moreno I, Domínguez M, Domínguez L, Gortázar C. (2021) Detection of environmental SARS-CoV-2 RNA in a high prevalence setting in Spain. *Transboundary and Emerging Diseases*. 68(3):1487-1492. IF: 4.188 Q1 ISSN 1865-1674 <https://doi.org/10.1111/tbed.13817>.
- 45) Ferreras-Colino E, García-Garrigós A, Gortázar C, Llana L. (2021) Wolf (*Canis lupus*) litter size in Spain. *European Journal of Wildlife Research* 67(2),31.
- 46) Figueroa J, Tortosa FS, Carpio AJ. (2021) Natural and Anthropogenic-Induced stressors affecting the composition of fish communities on the rocky reefs of Ecuador. *Marine Pollution Bulletin*, 164, 112118. <https://doi.org/10.1016/j.marpolbul.2021.112018>.
- 47) Gamino V, Pérez-Ramírez E, Gutiérrez-Guzmán AV, Sotelo E, Llorente F, Jiménez-Clavero MÁ, Höfle U. (2021) Pathogenesis of Two Western Mediterranean West Nile Virus Lineage 1 Isolates in Experimentally Infected Red-Legged Partridges (*Alectoris rufa*). *Pathogens*. 10(6):748. doi: 10.3390/pathogens10060748.
- 48) García-González R, Herrero J, Acevedo P, Arnal MC, Fernández de Luco D. (2021) Iberian Wild Goat *Capra pyrenaica*. Schinz, 1838. *Handbook of Mammals of Europe. Revisión sobre la cabra montés*
- 49) Gómez P, Ruiz-Ripa L, Fernández-Fernández R, Gharsa H, Ben Slama K, Höfle U, Zarazaga M, Holmes MA, Torres C. (2021) Genomic Analysis of *Staphylococcus aureus* of the Lineage CC130, Including mecC-Carrying MRSA and MSSA Isolates Recovered of Animal, Human, and Environmental Origins. *Front Microbiol*. 12:655994. doi: 10.3389/fmicb.2021.655994.
- 50) González-Barrio D, Jado I, Viñuela J, T. García J, P. Olea P, Arce F, Ruiz-Fons F. (2021) Investigating the role of micromammals in the ecology of *Coxiella burnetii* in Spain. *Animals*. 11(3): 654. Doi: 10.3390/ani11030654.

- 51) Gortázar C, Barroso-Arévalo S, Ferreras-Colino E, Isla J, de la Fuente G, Rivera B, Domínguez L, de la Fuente J, Sánchez-Vizcaíno JM. (2021) Natural SARS-CoV-2 infection in kept ferrets, Spain. *Emerging Infectious Diseases* 27(7): 1994-1996. <https://doi.org/10.3201/eid2707.210096> Preprint: bioRxiv 2021.01.14.426652; doi: <https://doi.org/10.1101/2021.01.14.426652>
- 52) Gortázar C, de la Fuente J, Armas Vergel O. (2021) Población, agua, biodiversidad, energía y alimentación: los pilares de una crisis global. *The Conversation*, 19 agosto 2021. <https://theconversation.com/poblacion-agua-biodiversidad-energia-y-alimentacion-los-pilares-de-una-crisis-global-165912>
- 53) Gortázar C, de la Fuente J. (2021) Los científicos españoles publicamos demasiada morralla. *El Confidencial. Tribuna. Tecnología*. 16/06/2021. https://blogs.elconfidencial.com/tecnologia/tribuna/2021-06-16/ciencia-morralla-espana-investigadores-publicaciones_3132811/
- 54) Guerrero-Casado J, Carpio AJ, Tortosa FS, Villanueva AJ. (2021). Environmental challenges of the intensive woody crops: The case of super high-density olive groves. *Science of the Total Environment*, 798, 149212. <https://doi.org/10.1016/j.scitotenv.2021.149212>
- 55) Gutiérrez-Molina R, Acevedo P, Sanchez-Montes S, Romero-Salas D, López-Ortiz S, Flores-Primo A, Cruz-Romero A. (2021) Spatial epidemiology of *Leptospira* sp. exposure in bovines from Veracruz, México. *Transboundary and Emerging Diseases - Artículo (Q1)* DOI: 10.1111/tbed.14346
- 56) Herrero J, Acevedo P. (2021) *Capra pyrenaica*, Iberian Ibex. *The IUCN Red List of Threatened Species* ISSN 2307-8235. Revisión del estatus de la cabra montés. DOI: 10.2305/IUCN.UK.2020-2.RLTS.T3798A170192604.en
- 57) Illanas S, Croft S, Smith GC, Fernández-López J, Vicente J, Blanco-Aguilar JA, Pascual-Rico R, Scandura M, Apollonio M, Ferroglio E, Keuling O, Zanet S, Brivio F, Podgorski T, Plis K, Soriguer RC, Acevedo P. (2021) Update of model for wild boar abundance based on hunting yield and first models based on occurrence for wild ruminants at European scale. *EFSA supporting publication. Entregable del proyecto ENETWILD*. DOI: 10.2903/sp.efsa.2021.EN-6825
- 58) Illanas S, Fernández-López J, Acevedo P, Apollonio M, Blanco-Aguilar JA, Brivio F, Croft S, Ferroglio E, Keuling O, Plis K, Podgórski T, Scandura M, Smith GC, Soriguer R, Šprem N, Zanet S, Vicente J. (2021) Analysis of wild boar-domestic pig interface in Europe: spatial overlapping and fine resolution approach in several countries. *EFSA supporting publication. Entregable del proyecto ENETWILD*. DOI: 10.2903/sp.efsa.2021.EN-1995
- 59) Jeske K, Emirhar D, T. García J, González-Barrio D, P. Olea P, Ruiz-Fons F, Schulz J, Mayer-Scholl A, Heckel G, G. Ulrich R. (2021) Frequent *Leptospira* spp. detection but absence of Tula orthohantavirus in *Microtus* spp. voles, Northwestern Spain. *Journal of Wildlife Diseases* 57:733-742. Doi: 10.7589/JWD-D-20-00109.

- 60) Jimenez-Ruiz S, García-Bocanegra I, Acevedo P, Espunyes J, Triguero-Ocaña R, Cano-Terriza D, Torres-Sánchez MJ, Vicente J, Risalde MA. (2021) A survey of shared pathogens at the domestic–wild ruminants' interface in Doñana National Park (Spain) *Transboundary and Emerging Diseases* - Artículo (Q1). DOI: 10.1111/tbed.14126
- 61) Jiménez-Ruiz S, Risalde MA, Acevedo P, Arnal MC, Gómez-Guillamón F, Prieto P, Gens MJ, Cano-Terriza D, Fernandez de Luco D, Vicente J, García-Bocanegra I. (2021) Serosurveillance of Schmallenberg virus in wild ruminants in Spain. *Transboundary and Emerging Diseases* - Artículo (Q1) 68: 347-354 DOI: 10.1111/tbed.13680
- 62) Jiménez-Ruiz S, Vicente J, García-Bocanegra I, Cabezón O, Arnal MC, Balseiro A, Ruiz-Fons F, Gómez-Guillamón F, Lázaro S, Escribano F, Acevedo P, Domínguez L, Gortázar C, Fernández de Luco D, Risalde MA. (2021) Distribution of Pestivirus exposure in wild ruminants in Spain. *Transboundary and Emerging Diseases* - Artículo (Q1) 68(3), pp. 1577-1585 10.1111/tbed.13827
- 63) Jo YS, Gortázar C. (2021) African Swine Fever in wild boar: Assessing interventions in South Korea. *Transboundary and Emerging Diseases* 68(5), pp. 2878-2889.
- 64) Jurado-Campos A, Soria-Meneses PJ, Sánchez-Rubio F, Niza E, Bravo I, Alonso-Moreno C, Arenas-Moreira M, García-Álvarez O, Soler AJ, Garde JJ, Fernández-Santos MDR. (2021) Vitamin E Delivery Systems Increase Resistance to Oxidative Stress in Red Deer Sperm Cells: Hydrogel and Nanoemulsion Carriers. *Antioxidants (Basel)*. 10(11):1780. doi: 10.3390/antiox10111780. PMID: 34829650; PMCID: PMC8615287.
- 65) Kasaija PD, Estrada-Peña A, Contreras M, Kirunda H, de la Fuente J. (2021) Ticks and tick-borne diseases: a review of Uganda's situation. *Ticks and Tick-Borne Diseases* 12: 101756.
- 66) Laguna E, Barasona JA, Vicente J, Keuling O, Acevedo P. (2021) Differences in wild boar spatial behaviour among land uses and management scenarios in Mediterranean ecosystems. *Science of the Total Environment* - Artículo (Q1) 796: 148966 DOI: 10.1016/j.scitotenv.2021.148966
- 67) Laguna E, Carpio AJ, Vicente J, Barasona A, Triguero-Ocaña R, Jiménez-Ruiz S, Gómez-Manzanque A, Acevedo P. (2021) The spatial ecology of red deer under different land use and management scenarios: Protected areas, mixed farms and fenced hunting estates. *Science of the Total Environment*. Artículo (Q1) 786:147124 <http://dx.doi.org/10.1016/j.scitotenv.2021.147124>
- 68) Lam SD, Ashford P, Díaz-Sánchez S, Villar M, Gortázar C, de la Fuente J, Oregón C. (2021) Arthropod eoparasites have potential to bind SARS-CoV-2 via ACE. *Viruses* 13(4): 708.
- 69) Letinić BD, Contreras M, Dahan-Moss Y, Linnekugel I, de la Fuente J, Koekemoer LL. (2021) Additional evidence on the efficacy of different Akirin vaccines assessed on *Anopheles arabiensis* (Diptera: Culicidae). *Parasites & Vectors* 14: 209.

- 70) Lizana V, Gortázar C, Muniesa A., (...), López-Ramon J, Cardells J. (2021) Human and environmental factors driving *Toxoplasma gondii* prevalence in wild boar (*Sus scrofa*). *Research in Veterinary Science* 141, pp. 56-62.
- 71) Lizana V, Gortazar C, Prats R, (...), Carrión MJ, Cardells J. (2021) *Macracanthorhynchus hirudinaceus* in expanding wild boar (*Sus scrofa*) populations in Eastern Spain. *Parasitology Research* 120(3), pp. 919-927.
- 72) Martínez-Guijosa J, Lima-Barbero JF, Acevedo P, Cano-Terriza D, Jimenez-Ruiz S, Barasona JA, Boadella M, García-Bocanegra I, Gortázar C, Vicente J. (2021) Description and implementation of an On-farm Wildlife Risk Mitigation Protocol at the wildlife-livestock interface: Tuberculosis in Mediterranean environments. *Preventive Veterinary Medicine*. Artículo (Q1) 191,105346. DOI: 10.1016/j.prevetmed.2021.105346
- 73) Martínez-Guijosa J, López-Alonso A, Gortázar C, Acevedo P, Torres MJ, Vicente J. (2021). Shared use of mineral supplement in extensive farming and its potential for infection transmission at the wildlife-livestock interface. *European Journal of Wildlife Research*. Artículo (Q2) 67(3),55. DOI: 10.1007/s10344-021-01493-3
- 74) Maside C, Sánchez-Ajofrín I, Medina-Chávez D, Alves B, Garde JJ, Soler AJ. (2021) Oocyte Morphometric Assessment and Gene Expression Profiling of Oocytes and Cumulus Cells as Biomarkers of Oocyte Competence in Sheep. *Animals (Basel)*. 11(10):2818. doi: 10.3390/ani11102818. PMID: 34679840; PMCID: PMC8532595.
- 75) Mateos-Hernández L, Obregon D, Wu-Chuang A, Maye J, Versille N, de la Fuente J, Díaz-Sánchez S, Bermúdez-Humarán LG, Torres-Maravilla E, Estrada-Peña A, Hodžić A, Šimo L, Cabezas-Cruz A. (2021) Anti-microbiota vaccines modulate the tick microbiome in a taxon-specific manner. *Frontiers in Immunology*. 12: 704621. Preprint: bioRxiv 2021.05.12.443756; doi: <https://doi.org/10.1101/2021.05.12.443756>
- 76) Mateos-Hernández L, Pipová N, Allain E, Henry C, Rouxel C, Lagrée A, Boulouis H, Valdés JJ, Alberdi P, de la Fuente J, Cabezas-Cruz A, Šimo L. (2021) Enlisting the *Ixodes scapularis* embryonic ISE6 cell line to investigate the neuronal basis of tick-pathogen interactions. *Pathogens* 10: 70.
- 77) Medina-Chávez DA, Sánchez-Ajofrín I, Peris-Frau P, Maside C, Montoro V, Fernández-Santos R, Garde JJ, Soler AJ. (2021) cAMP Modulators before In Vitro Maturation Decrease DNA Damage and Boost Developmental Potential of Sheep Oocytes. *Animals (Basel)*. (9):2512. doi: 10.3390/ani11092512. PMID: 34573478; PMCID: PMC8467748.
- 78) Moraga-Fernández A, Ruiz-Fons F, Habela MA, Royo-Hernández L, Calero-Bernal R, Gortazar C, de la Fuente J, Fernández de Mera IG. (2021) Detection of new Crimean-Congo hemorrhagic fever virus genotypes in ticks feeding on deer and wild boar, Spain. *Transboundary and Emerging Diseases*. 68(3): 993-1000. IF: 4.188 Q1 <https://doi.org/10.1111/tbed.13756>

- 79) Müller A, Melo N, González-Barrio D, Vieira-Pinto M, Ruiz-Fons F. (2021) Aujeszky's disease in hunted wild boar (*Sus scrofa*) in the Iberian Peninsula. *Journal of Wildlife Diseases* 57:543-552. Doi: 10.7589/JWD-D-20-00197.
- 80) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Aznar, I., Broglia, A. 2021. Assessment of the control measures of the category A diseases of Animal Health Law: sheep and goat pox. *EFSA Journal* 19(12),e06933.
- 81) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Aznar, I., Van der Stede, Y. 2021. Assessment of the control measures of the category A diseases of Animal Health Law: peste des petits ruminants. *EFSA Journal* 19(7),e06708.
- 82) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Mosbach-Schulz, O., Roberts, H.C. 2021. Ability of different matrices to transmit African swine fever virus. *EFSA Journal* 19(4),e06558.
- 83) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Thulke, H.H., Viltrop, A. 2021. ASF Exit Strategy: Providing cumulative evidence of the absence of African swine fever virus circulation in wild boar populations using standard surveillance measures. *EFSA Journal* 19(3),e06419.
- 84) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Van der Stede, Y., Miranda Chueca, M.Á. 2021. Research priorities to fill knowledge gaps on ASF seasonality that could improve the control of ASF. *EFSA Journal* 19(4),e06550.
- 85) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Van der Stede, Y., Michel, V. 2021. Welfare of sheep and goats at slaughter. *EFSA Journal* 19(11),e06882.
- 86) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Zancanaro, G., Aznar, I. 2021. Scientific Opinion on the assessment of the control measures of the category A diseases of Animal Health Law: African Horse Sickness. *EFSA Journal* 19(2),e06403.
- 87) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Zancanaro, G., Aznar, I. 2021. Scientific Opinion on the assessment of the control measures of the category A diseases of Animal Health Law: African Swine Fever. *EFSA Journal* 19(1),e06402.
- 88) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Zancanaro, G., Roberts, H.C. 2021. Assessment of the control measures of the category A diseases of Animal Health Law: Classical Swine Fever. *EFSA Journal* 19(7),e06707.
- 89) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Zancanaro, G., Roberts, H.C. 2021. Scientific Opinion on the assessment of the control measures for category A diseases of Animal Health Law: Foot and Mouth Disease. *EFSA Journal* 19(6),e06632.
- 90) Nielsen, S.S., Alvarez, J., Bicout, D.J., (...), Zancanaro, G., Roberts, H.C. 2021. Assessment of the control measures of the category A diseases of Animal Health Law: Newcastle disease *EFSA Journal*. 19(12),e06946.

- 91) Nielsen, S.S., Bicout, D.J., Calistri, P., (...), Baldinelli, F., Alvarez, J. 2021. Ad hoc method for the assessment of animal diseases caused by bacteria resistant to antimicrobials. *EFSA Journal* 19(6),e06645.
- 92) Nielsen, S.S., Bicout, D.J., Calistri, P., (...), Baldinelli, F., Alvarez, J. 2021. Assessment of animal diseases caused by bacteria resistant to antimicrobials: Dogs and cats. *EFSA Journal* 19(6),e06680
- 93) Nielsen, S.S., Bicout, D.J., Calistri, P., (...), Baldinelli, F., Alvarez, J. 2021. Assessment of animal diseases caused by bacteria resistant to antimicrobials: rabbits. *EFSA Journal* 19(12),e06999.
- 94) Nielsen, S.S., Bicout, D.J., Calistri, P., (...), Baldinelli, F., Alvarez, J. 2021. Assessment of animal diseases caused by bacteria resistant to antimicrobials: Horses. *EFSA Journal* 19(12),e07112
- 95) Nielsen, S.S., Bicout, D.J., Calistri, P., (...), Baldinelli, F., Alvarez, J. 2021. Assessment of animal diseases caused by bacteria resistant to antimicrobials: cattle. *EFSA Journal* 19(12),e06955.
- 96) Nielsen, S.S., Bicout, D.J., Calistri, P., (...), Baldinelli, F., Alvarez, J. 2021. Assessment of animal diseases caused by bacteria resistant to antimicrobials: sheep and goats. *EFSA Journal* 19(12),e06956.
- 97) Nielsen, S.S., Bicout, D.J., Calistri, P., (...), Baldinelli, F., Alvarez, J. 2021. Assessment of animal diseases caused by bacteria resistant to antimicrobials: Swine. *EFSA Journal* 19(12),e07113.
- 98) Nielsen, S.S., Bicout, D.J., Calistri, P., (...), Baldinelli, F., Alvarez, J. 2021. Assessment of animal diseases caused by bacteria resistant to antimicrobials: Poultry. *EFSA Journal* 19(12),e07114.
- 99) O'Neill X, White A, Clancy D, Ruiz-Fons F, Gortázar C. (2021) The influence of latent and chronic infection on pathogen persistence. *Mathematics* 9(9),1007.
- 100) O'Neill X, White A, Ruiz-Fons F, Gortázar C. (2021) The impact of an African swine fever outbreak on endemic tuberculosis in wild boar populations: A model analysis. *Transboundary and Emerging Diseases* 68(5), pp. 2750-2760.
- 101) Ortiz JA, García-Álvarez O, Amo-Salas M, Maroto-Morales A, Iniesta-Cuerda M, Fernández-Santos MDR, Soler AJ, Garde JJ. (2021) Exogenous Melatonin Improves the Reproductive Outcomes of Yearling Iberian Red Deer (*Cervus elaphus hispanicus*) Hinds. *Animals (Basel)*. 11(1):224. doi:10.3390/ani11010224. PMID: 33477633; PMCID: PMC7831485.
- 102) Pacheco I, Díaz-Sánchez S, Contreras M, Villar M, Cabezas-Cruz A, Gortázar C, de la Fuente J. (2021) Probiotic bacteria with high alpha-Gal content protect zebrafish against mycobacteriosis. *Pharmaceuticals* 14(7): 635.

- 103) Pacheco I, Fernández de Mera IG, Feo Brito F, Gómez Torrijos E, Villar M, Contreras M, Lima-Barbero JF, Doncel-Pérez E, Cabezas-Cruz A, Gortázar C, de la Fuente J. (2021) Characterization of the anti- α -Gal antibody profile in association with Guillain-Barré syndrome, implications for tick-related allergic reactions. *Ticks and Tick-borne Diseases*. 12: 101651 IF: 3.744 Q1 <https://doi.org/10.1016/j.ttbdis.2021.101651>.
- 104) Pacheco I, Prado E, Artigas-Jerónimo S, Lima-Barbero F, de la Fuente G, Antunes S, Couto J, Domingos A, Villar M, de la Fuente J. (2021) Comparative analysis of *Rhipicephalus* tick salivary gland and cement elementome. *Heliyon* 7: e06721.
- 105) Palencia P, Fernández-López J, Vicente J, Acevedo P. (2021) Innovations in movement and behavioural ecology from camera traps: day range as model parameter. *Methods in Ecology and Evolution* - Artículo (Q1) DOI: 10.1111/2041-210X.13609
- 106) Palencia P, Rowcliffe JM, Vicente J, Acevedo P. (2021) Assessing the camera trap methodologies used to estimate density of unmarked populations. *Journal of Applied Ecology* - Artículo (Q1). 58, 1583-1592 DOI: 10.1111/1365-2664.13913
- 107) Palencia P, Vicente J, Soriguer RC, Acevedo P. (2021) Towards a best-practices guide for camera trapping: assessing differences among camera trap models and settings under field conditions. *Journal of Zoology* - Artículo (Q1) DOI: doi.org/10.1111/jzo.12945
- 108) Parthasarathi BC, Kumar B, Nagar G, Manjunathachar HV, de la Fuente J, Ghosh S. (2021) Analysis of genetic diversity in Indian isolates of *Rhipicephalus microplus* based on Bm86 gene sequence. *Vaccines* 9: 194.
- 109) Pascual-Rico R, Morales-Reyes Z, Aguilera-Alcalá N, Olszańska A, Sebastián-González E, Naidoo R, (...) Sánchez-Zapata JA. (2021) Usually hated, sometimes loved: A review of wild ungulates' contributions to people. *Science of the Total Environment*, 801, 149652.
- 110) Pascual-Rico R, Morugán-Coronado A, Pereg L, Aldouri SS, García-Orenes F, Sánchez-Zapata JA. (2021) Effects of diversionary feeding on abundance of microbes involved in soil nitrogen cycling on a Mediterranean mountain. *Pedobiologia*, 85, 150724.
- 111) Pascual R, Acevedo P, Apollonio M, Blanco-Aguilar JA, Body G, Casaer J, Ferroglio E, Gomez Molina A, Illanas S, Jansen P, Keuling O, Palencia P, Plis K, Podgórski T, Ruiz Rodriguez C, Scandura M, Smith GC, Vada R, Zanet S, Vicente J. (2021) Report of the 2nd Annual General Meeting of ENETWILD. 5-6th October 2021. REF. LIBRO: EFSA supporting publication. Entregable del proyecto ENETWILD. DOI: 10.2903/sp.efsa.2021.EN-7053
- 112) Pascual-Rico R, Acevedo P, Apollonio M, Blanco-Aguilar JA, Body G, Brivio F, Broz L, Cagnacci F, Casaer J, Delibes-Mateos M, Ferroglio E, Focardi S, Gieser T, Hahn P, Jansen N, Martínez-Jauregui M, Keuling O, Marvin G, Morelle K, Plis K, Podgorski T, Scandura M, Smith G, Vada R, Zanet S, Vicente J. (2021) Research protocols for designing studies/pilot trials to evaluate and to improve effectiveness of wild boar management in relation to

African swine fever virus. EFSA supporting publication. Entregable del proyecto ENETWILD. DOI: 10.2903/sp.efsa.2021.EN-6583

- 113) Pérez E, Serrano R, Pedrajas AP, Carpio AJ. (2021) Teachers' Professional Identity: Validation of an assessment instrument for preservice teachers. *Heliyon* (7) e08049 <https://doi.org/10.1016/j.heliyon.2021.e08049>.
- 114) Peris-Frau P, Álvarez-Rodríguez M, Martín-Maestro A, Iniesta-Cuerda M, Sánchez-Ajofrín I, Medina-Chávez DA, Garde JJ, Villar M, Rodríguez-Martínez H, Soler AJ. (2021) Unravelling how in vitro capacitation alters ram sperm chromatin before and after cryopreservation. *Andrology*. 9(1):414-425. doi:10.1111/andr.12900. PMID: 32888251.
- 115) Peris-Frau P, Sánchez-Ajofrín I, Martín Maestro A, Maside C, Medina-Chávez DA, García-Álvarez O, Fernández-Santos MDR, Montoro V, Garde JJ, Ramón M, Soler AJ. (2021) Impact of Cryopreservation on Motile Subpopulations and Tyrosine-Phosphorylated Regions of Ram Spermatozoa during Capacitating Conditions. *Biology (Basel)*. 10(11):1213. doi: 10.3390/biology10111213. PMID:34827206; PMCID: PMC8614982.
- 116) Perlas A, Barral M, Höfle U, Majó N, Bertran K. (2021) Gripe aviar: un desafío para la avicultura, la fauna y salud pública. http://www.redrisa.es/redrisa---vetmasi/actualidad/gripe-aviar-un-desafio-para-la-avicultura--la-fauna-y-salud-publica_317_124_428_0_1_in.html
- 117) Pineda-Pampliega J, Ramiro Y, Herrera-Dueñas A, Martínez-Haro M, Hernández JM, Aguirre JI, Höfle U. (2021) A multidisciplinary approach to the evaluation of the effects of foraging on landfills on white stork nestlings. *Environ*. 25:775 145197. doi:10.1016/j.scitotenv.2021.145197
- 118) Ramos S, de la Fuente J. (2021) Art and science collaborate to face the COVID-19 pandemic. *International Journal of Humanities, Social Sciences and Education (IJHSSE)* 8(7): 267-270. <https://arcjournals.org/pdfs/ijhsse/v8-i7/29.pdf>
- 119) Renault V, Damiaans V, Humblet MF, Jiménez Ruiz S, García Bocanegra I, Brennan ML, Casal J, Petit E, Pieper L, Simoneit C, Tourette I, van Wuyckhuise L, Sarrazin S, Dewulf J, Saegerman C. (2021) Cattle farmers' perception of biosecurity measures and the main predictors of behaviour change: The first European-wide pilot study. *Transboundary and emerging diseases*. 68, 6. 3305-3319S. <https://doi.org/10.1111/tbed.13935>
- 120) Rivero-Juarez A, Rivalde MA, Gortázar C, Lopez-Lopez P, Barasona JA, Frias M, Caballero-Gomez J, de la Fuente J, Rivero A. (2021) Detection of hepatitis E virus in *Hyalomma lusitanicum* ticks feeding on wild boars. *Frontiers in Microbiology* 12: 692147.
- 121) Román-Carrasco P, Hemmer W, Cabezas-Cruz A, Hodžic A, de la Fuente J, Swoboda I. (2021) The α -Gal Syndrome and potential mechanisms. *Frontiers in Allergy* 2: 783279.
- 122) Sanches GS, Villar M, Couto J, Ferrolho J, Fernández de Mera IG, André MR, Barros-Battesti DM, Machado RZ, Bechara GH, Mateos-Hernández L, de la Fuente J, Antunes S,

- Domingos AG. (2021) Comparative proteomic analysis of *Rhipicephalus sanguineus sensu lato* (Acari: Ixodidae) tropical and temperate lineages: uncovering differences during *Ehrlichia canis* infection. *Frontiers in Cellular and Infection Microbiology* Host. IF: 4.123 Q1 [https://doi.org/10: 611113](https://doi.org/10.611113).
- 123) Segura A, Acevedo P. (2021) Influence of Habitat and Food Resource Availability on Common Raven Nest Site Selection and Reproductive Success in Mediterranean Forests. *Birds - Artículo (Q1) 2*: 302-313 DOI: doi.org/10.3390/birds2030022
- 124) Segura A, Rodríguez-Caro RC, Graciá E, Acevedo P. (2021) Differences in Reproductive Success in Young and Old Females of a Long-Lived Species. *Animals - Artículo (Q1) 11*: 467 DOI: doi.org/10.3390/ani11020467
- 125) Serrano R, Pérez E, Oteros J, Carpio AJ. (2021) To what extent do preservice teachers feel ready to teach? A case study in the Master's Degree in Teaching in Secondary Education. *Aula Abierta*, 50(1) 535-544. <https://doi.org/10.17811/rifie.50.1.2021.535-544>
- 126) Sharun K, Dhama K, Pawde AM, Gortázar C, Tiwari R, Bonilla-Aldana K, Rodríguez-Morales AJ, de la Fuente J, Attia YA. (2021) SARS-CoV-2 in animals: Potential for unknown reservoir hosts and public health implications. *Veterinary Quarterly* 41: 181-201. doi: 10.1080/01652176.2021.1921311.
- 127) Sireci G, Badami GD, Di Liberto D, Blanda V, Grippi F, Di Paola L, Guercio A, de la Fuente J, Torina A. (2021) Recent advances on the innate immune response to *Coxiella burnetii*. *Frontiers in Cellular and Infection Microbiology* 11: 754455.
- 128) Sridhara AA, Johnathan-Lee A, Elahi R, (...), Lyashchenko KP, Miller MA. (2021) Strong antibody responses to *Mycobacterium bovis* infection in domestic pigs and potential for reliable serodiagnostics. *Veterinary Immunology and Immunopathology* 231,110161.
- 129) Thomas J, Balseiro A, Gortázar C, Risalde MA. (2021) Diagnosis of tuberculosis in wildlife: a systematic review. *Veterinary Research* 52(1),31.
- 130) Tobajas J, Rouco C, Fernandez-de-Simon J, Díaz-Ruiz F, Castro F, Villafuerte R, Ferreras P. (2021) Does prey abundance affect prey size selection by the Eagle Owl (*Bubo bubo*)? *Journal of Ornithology*, 162(3), 699-708. <https://doi.org/10.1007/s10336-021-01869-x>
- 131) Touloudi A, Valiakos G, Cawthraw S, (...), Petrovska L, Billinis C. (2021) Development of a multiplex bead assay for simultaneous serodiagnosis of antibodies against *mycobacterium bovis*, *brucella suis*, and *trichinella spiralis* in wild boar. *Microorganisms* 9(5),904.
- 132) Triguero-Ocaña R, Laguna E, Jiménez-Ruiz S, Fernández-López J, García-Bocanegra I, Barasona JA, Risalde MA, Montoro V, Vicente J, Acevedo P. (2021) The wildlife-livestock interface on extensive free-ranging pig farms in central Spain during the "montanera" period. *Transboundary and Emerging Diseases - Artículo (Q1) 68*: 2066-2078 DOI: 10.1111/tbed.13854

- 133) Urra JM, Ferreras-Colino E, Contreras M, Cabrera CM, Fernández de Mera IG, Villar M, Cabezas-Cruz A, Gortázar C, de la Fuente J. (2021) The antibody response to the glycan α -Gal correlates with COVID-19 disease symptoms. *Journal of Medical Virology* 93(4): 2065-2075. <https://doi.org/10.1002/jmv.26575>. Preprint: bioRxiv 2020.07.14.201954; doi: <https://doi.org/10.1101/2020.07.14.201954> Preprint: Europe PMC plus. <https://europepmc.org/article/PPR/PPR187623>
- 134) Valente AM, Figueiredo AM, Acevedo P, Fonseca C, Torres RT, Vicente J. (2021) Long term surveillance reveals nematode *Elaphostrongylus cervi* as a practical indicator of red deer management. *Ecological Indicators - Artículo (Q1)* 13:107330 DOI: 10.1016/j.ecolind.2020.107330
- 135) Villar M, Pacheco I, Mateos-Hernández, L., Cabezas-Cruz, A., Tabor, A.E., Rodríguez-Valle, M., Mulenga, A., Kocan, K.M., Blouin, E.F., de la Fuente, J. 2021. Characterization of tick salivary gland and saliva alphagalactome reveals candidate alpha-gal syndrome disease biomarkers. *Expert Review of Proteomics* 18: 1099-1116. <https://doi.org/10.1080/14789450.2021.2018305>
- 136) Villar M, Urra JM, Rodríguez-del-Río FJ, Artigas-Jerónimo S, Jiménez-Collados N, Ferreras-Colino E, Contreras M, Fernández de Mera IG, Estrada-Peña A, Gortázar C, de la Fuente J. (2021) Characterization by quantitative serum proteomics of immune-related prognostic biomarkers for COVID-19 symptomatology. *Frontiers in Immunology*. 12,730710. IF 7.6 Q1 ISSN 16643224.
- 137) Águeda-Pinto A, Kraberger S, Lund MC, Gortázar C, McFadden G, Varsani A, Esteves PJ. (2020) Coinfections of novel polyomavirus, anelloviruses and a recombinant strain of myxoma virus-MYXV-tol identified in Iberian hares. *Viruses*. 12(3). pii: E340. doi: 10.3390/v12030340.
- 138) Almazán C, Fourniol L, Rouxel C, Alberdi P, Huet H, Gandoin C, Lagrée AC, Boulouis HJ, de la Fuente J, Bonnet S. (2020) Experimental *Ixodes ricinus*-sheep cycle of *Anaplasma phagocytophilum* NV2Os propagated in tick cell cultures. *Frontiers in Veterinary Science* 7: 40-52
- 139) Artigas-Jerónimo S, Pastor Comín JJ, Villar M, Contreras M, Alberdi P, León Viera I, Soto L, Cordero R, Valdés JJ, Cabezas-Cruz A, Estrada-Peña A, de la Fuente J. (2020) A novel combined scientific and artistic approach for advanced characterization of interactomes: the Akiri/Subolesin model. *Vaccines* 8: 77-104
- 140) Balseiro A, Thomas J, Gortázar C, Risalde MA. (2020) Development and challenges in animal tuberculosis vaccination. *Pathogens*. 9:6, Article number 472, Pages 1-31
- 141) Barasona, J.A., Barroso-Arevalo, S., Rivera, B., Gortázar, C. Sánchez- Vizcaíno, J.M.. (2020). Detection of antibodies against *Mycobacterium bovis* in oral fluid from Eurasian wild boar. *Pathogens*. 9(4), 242; <https://doi.org/10.3390/pathogens9040242>
- 142) Barasona, J.A., Risalde, M.A., Ortíz, J.A., Gonzalez-Barrio, D., Che-Amat, A., Pérez-Sancho, M., Vargas-Castillo, L., Xeidakis, A., Jurado-Tarifa, E., Gortázar C. (2020).

- Disease-mediated piglet mortality prevents wild boar population growth in fenced overabundant settings. *European Journal of Wildlife Research*. Volumen 66: 26.
- 143) Barroso P, Barasona JA, Acevedo P, Palencia P, Carro F, Negro JJ, Torres MJ, Gortázar C, Soriguer RC, Vicente J. (2020) Long-Term Determinants of Tuberculosis in the Ungulate Host Community of Doñana National Park. *Pathogens* 9, 445.
- 144) Barroso P, García-Bocanegra I, Acevedo P, Palencia P, Carro F, Jiménez-Ruiz S, Almería S, Dubey JP, Cano-Terriza D, Vicente J. (2020) Long-Term Determinants of the Seroprevalence of *Toxoplasma gondii* in a Wild Ungulate Community. *Animals* 10, 2349.
- 145) Bécares J, Blas J, López-López P, Schulz H, Torres-Medina F, Flack A, Enggist P, Höfle U, Bermejo A, de la Puente, J. (2020) Migración y ecología espacial de la cigüeña blanca en España. Monografía n.º 5 del programa Migra. SEO/BirdLife. Madrid. <https://doi.org/10.31170/0071>
- 146) Bogani G, Raspagliesi F, Ditto A, de la Fuente J. (2020) The adoption of Viral Capsid-Derived Virus-Like particles (VLPs) for disease prevention and treatments. *Vaccines* 8: 432.
- 147) Boklund A, Dhollander S, Chesnoiu Vasile T, Abrahantes JC, Bøtner A, Gogin A, Gonzalez Villeta LC, Gortázar C, More SJ, Papanikolaou A, Roberts H, Stegeman A, Ståhl K, Thulke HH, Viltrop A, Van der Stede Y, Mortensen S. (2020) Risk factors for African swine fever incursion in Romanian domestic farms during 2019. *Scientific Reports* 10, Issue 1, 1 December 2020, Article number 10215
- 148) Caballero-Gómez J, García Bocanegra I, Gómez-Guillamón F, Camacho-Sillero L, Zorrilla I, Lopez-Lopez P, Cano-Terriza D, Jiménez-Ruiz S, Frias M, Rivero-Juarez A. (2020) Absence of Hepatitis E virus circulation in wild rabbits (*Oryctolagus cuniculus*) and Iberian hares (*Lepus granatensis*) in Mediterranean ecosystems in Spain. *Transboundary and Emerging Diseases*. 67(4):1422-1427.
- 149) Caballero-Gómez J, Rivero-Juárez A, Rivalde MA, Frías M, Jiménez-Ruiz S, López-López P, Rivero A, García-Bocanegra I. (2020). Situación actual de la hepatitis E en el ganado porcino: una enfermedad emergente de interés en salud pública. *Sostenibilidad - Suis - N°169, Julio/Agosto 2020*
- 150) Calero-Bernal R, Santín M, Maloney JG, Martín-Pérez M, Habela MA, Fernández-García JL, Figueiredo A, Nájera F, Palacios MJ, Mateo M, Balseiro A, Barral M, Lima-Barbero JF, Köster PCK, Carmena D. (2020) Blastocystis sp. Subtype Diversity in Wild Carnivore Species from Spain. *Journal of Eukaryotic Microbiology*. 67:2, 273-278.
- 151) Cardoso B, Sánchez-Ajofrín I, Castaño C, García-Álvarez O, Estes MC, Maroto-Morales A, Iniesta-Cuerda M, Garde JJ, Santiago-Moreno J, Soler AJ. (2020) Optimization of Sperm Cryopreservation Protocol for Peregrine Falcon (*Falco peregrinus*) *Animals* 10, 691; doi:10.3390/ani10040691

- 152) Carpio AJ, Álvarez Y, Jaramillo J, Tortosa FS. (2020e). Nesting failure of sea turtles in Ecuador - Causes of the loss of sea turtle nests: the role of the tide. *Journal of Coastal Conservation*, 22:55. <https://doi.org/10.1007/s11852-020-00775-3>
- 153) Carpio AJ, Álvarez Y, Oteros J, León F, Tortosa FS. (2020a). Intentional introduction pathways of alien birds and mammals in Latin America. *Global Ecology and Conservation*, 22, e00949. <https://doi.org/10.1016/j.gecco.2020.e00949>.
- 154) Carpio AJ, Lora Á, Martín-Consuegra E, Sánchez-Cuesta R, Tortosa FS, Castro J. (2020b). The influence of the soil management systems on aboveground and seed bank weed communities in olive orchards. *Weed Biology and Management*, 20(1), 12-23. <https://doi.org/10.1111/wbm.12195>
- 155) Carpio AJ, Solana M, Tortosa FS, Castro J. (2020c). Effect of cover crops in olive groves on Cicadomorpha communities. *Spanish Journal of Agriculture Research*, 18(2), e0303. <http://dx.doi.org/10.5424/sjar/2020182-15991>
- 156) Carpio AJ, Soriano MA, Gómez JA, Tortosa FS. (2020f). The Self-Seeding of *Anthemis arvensis* L. for Cover Crop in Olive Groves under Intense Rabbit Grazing. *Agronomy* 2020, 10, 1412. <https://www.mdpi.com/2073-4395/10/9/1412>
- 157) Casades-Martí L, González-Barrio D, Royo-Hernández L, Díez-Delgado I, Ruiz-Fons F. (2020) Dynamics of Aujeszky's disease virus infection in wild boar in enzootic scenarios. *Transboundary and Emerging Diseases* 67:388-405. doi.org/10.1111/tbed.13362.
- 158) Castillo-Cuenca JC, Díaz-Cao JM, Martínez-Moreno Á, Cano-Terriza D, Jiménez-Ruiz S, Almería S, García-Bocanegra I. (2020) Seroepidemiology of *Toxoplasma gondii* in extensively raised Iberian pigs in Spain. *Preventive Veterinary Medicine*. 1; 175:104854.
- 159) Contreras M, Karlsen M, Villar M, Olsen RH, Leknes LM, Furevik A, Yttredal KL, Tartor H, Grove S, Alberdi P, Brudeseth B, de la Fuente J. (2020) Vaccination with Ectoparasite Proteins Involved in Midgut Function and Blood Digestion Reduces Salmon Louse Infestations *Vaccines* 8: 32
- 160) Contreras M, Pacheco I, Alberdi P, Díaz-Sánchez S, Artigas-Jerónimo S, Mateos-Hernández L, Villar M, Cabezas-Cruz A, de la Fuente J. (2020) Allergic reactions and immunity in response to tick salivary biogenic substances and red meat consumption in the zebrafish model. *Front Cell Infect Microbiol*. 10:78. doi: 10.3389/fcimb.2020.00078
- 161) Contreras M, San José C, Estrada-Peña A, Talavera V, Rayas E, León CI, Núñez JL, Fernández de Mera IG, de la Fuente J. (2020) Control of tick infestations in wild roe deer (*Capreolus capreolus*) vaccinated with the Q38 Subolesin/Akirin chimera. *Vaccine* 38: 6450-6454.
- 162) Couto J, Villar V, Mateos-Hernández L, Ferrolho J, Sanches GS, Santos AS, Santos-Silva MM, Nobre J, Moreira O, Antunes S, de la Fuente J, Domingos S. (2020) Quantitative proteomics identifies metabolic pathways affected by *Babesia* infection and blood feeding in the sialoproteome of the vector *Rhipicephalus bursa*. *Vaccines* 8: 91.

- 163) de la Fuente J, Cabezas-Cruz A, Pacheco I. (2020) Alpha-Gal Syndrome: challenges to understanding sensitization and clinical reactions to alpha-gal. *Expert Review of Molecular Diagnostics* 20: 905-911.
- 164) de la Fuente J, Estrada-Peña A, Contreras M. (2020) Modeling tick vaccines: a key tool to improve protection efficacy. *Expert Review of Vaccines* 19: 217-225
- 165) de la Fuente J, Lima-Barbero JF, Prado E, Pacheco I, Alberdi P, Villar M. (2020) Anaplasma pathogen infection alters chemical composition of the exoskeleton of hard ticks (Acari: Ixodidae). *Computational and Structural Biotechnology Journal* 18: 253-257.
- 166) de la Fuente J, Urra JM, Contreras M, Pacheco I, Ferreras-Colino E, Doncel-Pérez E, Fernández de Mera IG, Villar M, Cabrera CM, Gómez Hernando C, Vargas Baquero E, Blanco García J, Rodríguez Gómez J, Velayos Galán A, Feo Brito F, Gómez Torrijos E, Cabezas-Cruz A, Gortázar C. (2020) A dataset for the analysis of antibody response to glycan alpha-Gal in individuals with immune-mediated disorders. *F1000Research* 9:1366
- 167) Díaz-Cao JM, Lorca-Oró C, Pujols J, Cano-Terriza D, de los Ángeles Riscalde M, Jiménez-Ruiz S, Caballero-Gómez J, García-Bocanegra I. (2020) Evaluation of two enzyme-linked immunosorbent assays for diagnosis of bluetongue virus in wild ruminants. *Comparative Immunology, Microbiology and Infectious Diseases*. 29:101461.
- 168) Doncel-Pérez E, Contreras M, Gómez Hernando C, Vargas Baquero E, Blanco García J, Rodríguez Gómez J, Velayos Galán A, Cabezas-Cruz A, Gortázar C, de la Fuente J. (2020) What is the impact of the antibody response to glycan alpha-Gal in Guillain-Barré syndrome associated with SARS-CoV-2 infection? *Merit Research Journal of Medicine and Medical Sciences (MRJMMS)* 8: 730-737.
- 169) Elizalde M, Cano-Gómez C, Llorente F, Pérez-Ramírez E, Casades-Martí L, Aguilera-Sepúlveda P, Ruiz-Fons F, Jiménez-Clavero MA, Fernández-Piñero J. (2020) A duplex quantitative real-time reverse transcription-PCR for simultaneous detection and differentiation of flaviviruses of the Japanese Encephalitis and Ntaya serocomplexes in birds. *Frontiers in Veterinary Science* 7:203.
- 170) ENETWILD consortium, Fernandez-Lopez J, Acevedo P, ... (2020) Analysis of wild boar-domestic pig interface in Europe: preliminary analysis. *EFSA Supporting Publications* 17 (4), 1834E
- 171) ENETWILD consortium, Grignolio S, Apollonio M, Brivio F, Vicente J, Acevedo P, Palencia P, Petrovic K, Keuling O. (2020) Guidance on estimation of abundance and density data of wild ruminant population: methods, challenges, possibilities. *EFSA Supporting Publications*, 17(6), 1876E.
- 172) ENETWILD-consortium, Acevedo P, Croft S, Smith G, Blanco-Aguar JA, ... (2020) Update of occurrence and hunting yield-based data models for wild boar at European scale: new approach to handle the bioregion effect. *EFSA Supporting Publications* 17 (5), 1871E

- 173) Estrada-Peña A, Nava S, Tarragona E, de la Fuente J, Guglielmone AA. (2020) A community approach to the Neotropical ticks-hosts interactions. *Scientific Reports* 10: 9269.
- 174) Estrada-Peña A, Szabó M, Labruna M, Mosqueda J, Merino O, Tarragona E, Venzal JM, de la Fuente J. (2020) Towards an effective, rational and sustainable approach for the control of cattle ticks in the Neotropics. *Vaccines* 8: 9-18
- 175) Fernández-Vizcaíno E, Fernández de Mera IG, Mougeot F, Mateo R, Ortiz-Santaliestra ME. (2020) Multi-level analysis of exposure to triazole fungicides through treated seed ingestion in the red-legged partridge. *Environmental Research* 189: 109928.
- 176) Figueroa-Pico J, Carpio AJ, Tortosa FS. (2020). Turbidity: A key factor in the estimation of fish species richness and abundance in the rocky reefs of Ecuador. *Ecological Indicators*, 111. <https://doi.org/10.1016/j.ecolind.2019.106021>
- 177) Figueroa-Pico J, Tortosa FS, Carpio AJ. (2020). Coral fracture by derelict fishing gear affects the sustainability of the marginal reefs of Ecuador. *Coral Reefs*, 1-9. <https://doi.org/10.1007/s00338-020-01926-6>
- 178) Franco-Martínez L, Villar M, Tvarijonaviciute A, Escribano D, Bernal LJ, Cerón JJ, Thomas MC, Mateos-Hernández L, Tecles F, de la Fuente J, López MC, Martínez-Subiela S. (2020) Serum proteome of dogs at subclinical and clinical onset of canine leishmaniosis. *Transboundary and Emerging Diseases* 67: 318-327.
- 179) Gervasi MG, Soler AJ, González-Fernández L, Alves MG, Oliveira PF, Martín-Hidalgo D. (2020) Extracellular Vesicles, the Road toward the Improvement of ART Outcomes. *Animals (Basel)*. 10(11):2171. doi: 10.3390/ani10112171. PMID: 33233342; PMCID: PMC7700519.
- 180) Glaize A, Gutierrez-Rodriguez E, Hanning I, Díaz-Sánchez S, Gunter C, van Vliet A, Watson W, Thakur S. (2020) Transmission of antimicrobial resistant non-O157 *Escherichia coli* at the interface of animal-fresh produce in sustainable farming environments. *International Journal of Food Microbiology* 319: 108472.
- 181) Gortazar C, Ballesteros S. (2020) Daños a la agricultura y especies silvestres en tiempos de estado de alarma. <https://www.club-caza.com/articulos/articulosver.asp?na=1098>
- 182) Gortázar C. (2020) ¿Puede la caza solucionar la plaga de jabalíes? <https://www.club-caza.com/articulos/articulosver.asp?na=1087>
- 183) Gortázar C. (2020) El libro 'Las especies cinegéticas españolas en el siglo XXI' y el futuro de la investigación sobre caza. <https://www.club-caza.com/articulos/articulosver.asp?na=1085>

- 184) Gortázar C, de la Fuente J. (2020) COVID-19 is likely to impact animal health in Europe. *Preventive Veterinary Medicine* 180: 105030
- 185) Gortázar C, Rodríguez del-Río FJ, Domínguez L, de la Fuente J. (2020) Host or pathogen-related factors in COVID-19 severity? *Lancet* 396(10260): 1396-1397.
- 186) Guerrero-Casado J, Ström H, Hilström L, Prada LM, Carpio AJ, Tortosa FS. (2020). Assessment of the suitability of latrine counts as an indirect method by which to estimate the abundance of European rabbit populations at high and low abundance. *European Journal Wildlife Research*, 66(10). <https://doi.org/10.1007/s10344-019-1349-4>
- 187) Hodžić A, de la Fuente J, Cabezas-Cruz A. (2020) COVID-19 in the developing world: is the immune response to α -Gal an overlooked factor mitigating the severity of infection? *ACS Infectious Diseases* 6: 3104-3108.
- 188) Hodžić A, Mateos-Hernández L, de la Fuente J, Cabezas-Cruz A. (2020) α -Gal-based vaccines: Advances, opportunities, and perspectives. *Trends in Parasitology* 36: 992-1001.
- 189) Hodžić A, Mateos-Hernández L, Frealle E, Román-Carrasco P, Alberdi P, Pichavant M, Risco-Castillo V, Le Roux D, Vicogne J, Hemmer W, Auer H, Swoboda I, Duscher GG, de la Fuente J, Cabezas-Cruz A. (2020) Infection with *Toxocara canis* inhibits the production of IgE antibodies to α -Gal in humans: Towards a conceptual framework of the hygiene hypothesis? *Vaccines* 8: 167.
- 190) Höfle U, Gonzalez-Lopez JJ, Camacho MC, Solà-Ginés M, Moreno-Mingorance A, Manuel Hernández J, De La Puente J, Pineda-Pampliega J, Aguirre JI, Torres-Medina F, Ramis A, Majó N, Blas J, Migura-García L. (2020) Foraging at Solid Urban Waste Disposal Sites as Risk Factor for Cephalosporin and Colistin Resistant *Escherichia coli* Carriage in White Storks (*Ciconia ciconia*). *Frontiers in Microbiology*. 11:28, Article number 1397
- 191) Höfle U, Gortazar C. (2020) Lo que las gallinas nos enseñan sobre el coronavirus y su control. *The Conversation*, 23 de Marzo 2020. <https://theconversation.com/lo-que-las-gallinas-nos-enseñan-sobre-el-coronavirus-y-su-control-133700>
- 192) Infantes-Lorenzo, J.A., Gortázar, C., Domínguez, L., Muñoz-Mendoza, M., Domínguez, M., Balseiro, A. (2020). Serological technique for detecting tuberculosis prevalence in sheep in Atlantic Spain. *Research in Veterinary Science*. Volume 129, Pages 96-98.
- 193) Isla J, Boadella M, Ortiz JA, Gortázar C. (2020). No effect of inoculation site and injection device on the skin test response of red deer to the intradermal injection of *Mycobacterium avium*-derived purified protein derivative (PPD). *Prev Vet Med*. ;176:104932. doi: 10.1016/j.prevetmed.2020.104932.
- 194) Jiménez Ruiz S, Vicente J, Laguna E, Acevedo P, Martínez-Guijosa J, Cano-Terriza D, Rialde MA, García-Bocanegra I. (2020). Caracterización del nivel de bioseguridad frente a fauna silvestre en las explotaciones porcinas extensivas. *Suis*, (165), 8-14. Available at: <https://dialnet.unirioja.es/servlet/articulo?codigo=7400354>

- 195) Jiménez-Martín D, Cano-Terriza D, Castillo-Cuenca JC, Martínez-Moreno A, Díaz-Cao JM, Almería S, Jiménez Ruiz S, García-Bocanegra I. (2020). *Toxoplasma gondii* en el porcino extensivo. *Suis*, (172), 16-20.
- 196) Kasaija PD, Contreras M, Kabi F, Mugerwa S, de la Fuente J. (2020) Vaccination with recombinant Subolesin antigens provides cross-tick species protection in *Bos indicus* and crossbred cattle in Uganda. *Vaccines* 8: 319
- 197) Kavčič K, Corlatti L, Rodriguez O, Kavčič B, Šprem N. (2020) From the mountains to the sea! Unusual swimming behavior in chamois *Rupicapra* spp. *Ethology Ecology and Evolution*. 32:4, Pages 402-408
- 198) Martínez-Guijosa J, Casades-Martí L, González-Barrio D, Aranaz A, Fierro Y, Gortázar C, Ruiz-Fons F. (2020) Tuning oral-bait delivery strategies for red deer in Mediterranean ecosystems. *European Journal of Wildlife Research* 66:51. doi:10.1007/s10344-020-01389-8
- 199) Martínez-Guijosa J, Romero B, Infantes-Lorenzo JA, Díez E, Boadella M, Balseiro A, Veiga M, Navarro D, Moreno I, Ferreres J, et al. (2020) Environmental DNA: A promising factor for tuberculosis risk assessment in multi-host settings. *PLoS One* 15:e0233837. doi:10.1371/journal.pone.0233837
- 200) Martínez-Padilla A, Caballero-Gómez J, Magnet Á, Gómez-Guillamón F, Izquierdo F, Camacho-Sillero L, Jiménez-Ruiz S, Del Águila C, García-Bocanegra I. (2020) Zoonotic Microsporidia in Wild Lagomorphs in Southern Spain. *Animals*. 10(12):2218.
- 201) Martín-Maestro A, Sánchez-Ajofrín I, Maside C, Peris-Frau P, Medina-Chávez DA, Cardoso B, Navarro JC, Fernández-Santos MR, Garde JJ, Soler AJ. (2020) Cellular and Molecular Events that Occur in the Oocyte during Prolonged Ovarian Storage in Sheep. *Animals (Basel)*. 10(12):2414. doi: 10.3390/ani10122414. PMID: 33348585; PMCID: PMC7766589.
- 202) Mateos-Hernández L, Obregon D, Maye J, Versille N, de la Fuente J, Estrada-Peña A, Hodžić A, Simo L, Cabezas-Cruz A. (2020) Anti-tick microbiota vaccine impacts *Ixodes ricinus* performance during feeding *Vaccines* 8: 702.
- 203) Mateos-Hernández L, Risco-Castillo V, Torres-Maravilla E, Bermúdez-Humarán LG, Alberdi P, Hodzic A, Hernández-Jarguin A, Rakotobe S, Galon C, Devillers E, de la Fuente J, Guillot J, Cabezas-Cruz A. (2020) Gut microbiota abrogates anti- α -Gal IgA response in lungs and protects against experimental *Aspergillus* infection in poultry. *Vaccines* 8: 285.
- 204) Migura-García L, González-López JJ, Martínez-Urtaza J, Aguirre Sánchez JR, Moreno-Mingorance A, Pérez de Rozas A, Höfle U, Ramiro Y, González-Escalona N. (2020) mcr-Colistin Resistance Genes Mobilized by IncX4, IncHI2, and IncI2 Plasmids in *Escherichia coli* of Pigs and White Stork in Spain. *Frontiers in Microbiology*. 10: 17, Article number 3072

- 205) Nielsen SS, Alvarez J, Bicout DJ, Calistri P, Depner K, Drewe JA, Garin-Bastuji B, Gonzales Rojas JL, Gortázar Schmidt C, Herskin M, Michel V, Miranda Chueca MÁ, Roberts HC, Sihvonen LH, Spoolder H, Stahl K, Velarde A, Viltrop A, Candiani D, Van der Stede Y, Winckler C, EFSA Panel on Animal Health and Welfare (AHAW). (2020) Welfare of cattle during killing for purposes other than slaughter on-farm killing of cattle. *EFSA Journal*. 18:11, Article number e06312.
- 206) Nielsen SS, Alvarez J, Bicout DJ, Calistri P, Depner K, Drewe JA, Garin-Bastuji B, Gonzales Rojas JL, Gortázar Schmidt C, Herskin M, Michel V, Miranda Chueca MÁ, Pasquali P, Roberts HC, Sihvonen LH, Stahl K, Calvo AV, Viltrop A, Winckler C, Gubbins S, Antoniou S-E, Broglia A, Abrahantes JC, Dhollander S, Van der Stede Y, EFSA Panel on Animal Health and Welfare (EFSA AHAW Panel) (2020) Rift Valley Fever – assessment of effectiveness of surveillance and control measures in the EU. *EFSA Journal*. 18:11, Article number e06292
- 207) Nielsen SS, Alvarez J, Bicout DJ, Calistri P, Depner K, Drewe JA, Garin-Bastuji B, Gonzales Rojas JL, Gortázar Schmidt C, Michel V, Miranda Chueca MÁ, Roberts HC, Sihvonen LH, Spoolder H, Stahl K, Viltrop A, Winckler C, Candiani D, Fabris C, Van der Stede Y, Velarde A. (2020) Welfare of pigs at slaughter. *EFSA Journal*. 18:6, Article number e06148
- 208) Nol P, Ionescu R, Welearegay TG, Barasona JA, Vicente J, Beleño-Sáenz KJ, Barrenetxea I, Torres MJ, Ionescu F, Rhyan J. (2020) Evaluation of volatile organic compounds obtained from breath and feces to detect mycobacterium tuberculosis complex in wild boar (*Sus scrofa*) in Doñana National Park, Spain. *Pathogens*. 9:5, Article number 346
- 209) Nol P, Wehtje ME, Bowen RA, Robbe-Austerman S, Thacker TC, Lantz K, Rhyan JC, Baeten LA, Juste RA, Sevilla IA, Gortázar C, Vicente J. (2020). Effects of inactivated *Mycobacterium bovis* vaccination on molokai-origin wild pigs experimentally infected with virulent *M. Bovis*. *Pathogens*. 7;9(3). pii: E199. doi: 10.3390/pathogens9030199.
- 210) O'Neil X, White A, Ruiz-Fons F, Gortázar C. (2020) Modelling the transmission and persistence of African swine fever in wild boar in contrasting European scenarios. *Scientific Reports* 10:5895.
- 211) Pacheco I, Acevedo P, Prado E, Mihalca AD, De La Fuente J. (2020) Targeting the exoskeleton elementome to track tick geographic origins. *Frontiers in Physiology* 11:572758
- 212) Pacheco, I., Contreras, M., Villar, M., Risalde, M.A., Alberdi, P., Cabezas-Cruz, A., Gortázar, C., de la Fuente, J. (2020). Vaccination with Alpha-Gal Protects Against Mycobacterial Infection in the Zebrafish Model of Tuberculosis. *Vaccines* 2020, 8(2), 195; <https://doi.org/10.3390/vaccines8020195>
- 213) Palencia P, Gortazar C. (2020). Repercusiones del COVID-19 en la caza. WEB: <https://www.club-caza.com/articulos/articulosver.asp?na=1097>

- 214) Pérez-Morote R, Pontones-Rosa C, Gortázar-Schmidt C, Muñoz-Cardona ÁI. (2020) Quantifying the economic impact of bovine tuberculosis on livestock farms in south-western Spain. *Animals*. 10:12, Article number 2433, Pages 1-25
- 215) Peris A, Closa F, Marco I, Acevedo P, Barasona JA, Casas-Díaz E. (2020) Towards the comparison of home range estimators obtained from contrasting tracking regimes: the wild boar as a case study. *European Journal of Wildlife Research* 66 (2), 1-10
- 216) Peris-Frau P, Álvarez-Rodríguez M, Martín-Maestro A, Iniesta-Cuerda M, Sánchez-Ajofrín I, Medina-Chávez D. A, Garde JJ, Villar M, Rodríguez-Martínez H, Soler AJ. (2020) Unravelling how in vitro capacitation alters ram sperm chromatin before and after cryopreservation. *Andrology*, 10.1111/andr.12900.
- 217) Peris-Frau P, Martín-Maestro A, Iniesta-Cuerda M, Sánchez-Ajofrín I, Cesari A, Garde JJ, Villar M, Soler AJ. (2020) Cryopreservation of ram sperm alters the dynamic changes associated with in vitro capacitation. *Theriogenology* 145: 100–108.
- 218) Peris-Frau P, Soler AJ, Iniesta-Cuerda M, Martín-Maestro A, Sánchez-Ajofrín I, Medina-Chávez DA, Fernández-Santos MR, García-Álvarez O, Maroto-Morales A, Montoro V, Garde JJ. (2020) Sperm Cryodamage in Ruminants: Understanding the Molecular Changes Induced by the Cryopreservation Process to Optimize Sperm Quality. *Int J Mol Sci*. 21(8):2781. doi: 10.3390/ijms21082781. PMID: 32316334; PMCID: PMC7215299.
- 219) Pérez E, Serrano R, Carpio AJ. (2020). Bilingualism and Interculture: What are teachers doing?. *Culture and Education (RCYE)*, 32(4).
<https://doi.org/10.1080/11356405.2020.1819119>.
- 220) Pérez E, Serrano R, Carpio AJ. (2020). Promoting intercultural through content and competences within bilingual education: Teachers in action. *Intercultural Education Journal*, 31(4), 407-426. <https://doi.org/10.1080/14675986.2020.1747348>
- 221) Pineda-Pampliega J, Herrera-Dueñas A, Mulder E, Aguirre JI, Höfle U, Verhulst S. (2020) Antioxidant supplementation slows telomere shortening in free-living white stork chicks. *Proceedings of the Royal Society B: Biological Sciences*. 287:1918, Article number 20191917
- 222) Queirós J, Gortázar C, Alves PC. (2020) Deciphering Anthropogenic Effects on the Genetic Background of the Red Deer in the Iberian Peninsula. *Frontiers in Ecology and Evolution*. 8, Article number 147
- 223) Řimnáčová H, Štiavnická M, Moravec J, Chemek M, Kolinko Y, García-Álvarez O, Mouton PR, Trejo AMC, Fenclová T, Eretová N, Hošek P, Klein P, Králíčková M, Petr J, Nevoral J. (2020) Low doses of Bisphenol S affect post-translational modifications of sperm proteins in male mice. *Reproductive Biology and Endocrinology*. 18:1, Article number 56
- 224) Rivero-Juárez, A., Aguilera, A., Avellón, A., García-Deltoro, M., García, F., Gortazar, C., Granados, R., Macías, J., Merchante, N., Oteo, J.A., Pérez-Gracia, M.T., Pineda, J.A., Rivero, A., Rodríguez-Lazaro, D., Téllez, F., Morano-Amado, L.E., Grupo redactor de

- GeHEP SEIMC. (2020). Executive summary: Consensus document of the diagnosis, management and prevention of infection with the hepatitis E virus: Study Group for Viral Hepatitis (GEHEP) of the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC). *Enfermedades Infecciosas y Microbiología Clínica*. Vol. 38. Núm. 1. páginas 28-32. DOI: 10.1016/j.eimc.2018.06.014
- 225) Roy A, Infantes-Lorenzo JA, Domínguez M, Moreno I, Pérez M, García N, García-Seco T, Álvarez J, Romero B, Gortázar C, de Juan L, Domínguez L, Bezos J. (2020). Evaluation of a new enzyme-linked immunosorbent assay for the diagnosis of tuberculosis in goat milk. *Res Vet Sci*.128:217-223. doi: 10.1016/j.rvsc.2019.12.009.
- 226) Ruiz-Ripa L, Gómez P, Alonso CA, Camacho MC, Ramiro Y, Puente JL, Fernández-Fernández R, Quevedo MÁ, Blanco JM, Báguena G, Zarazaga M, Höfle U, Torres C. (2020) Frequency and characterization of antimicrobial resistance and virulence genes of coagulase-negative staphylococci from wild birds in Spain. Detection of *tst*-carrying *S. sciuri* isolates. *Microorganisms*. 8:9, Article number 1317, Pages 1-12
- 227) Sánchez-Ajofrín I, Iniesta-Cuerda M, Peris-Frau P, Martín-Maestro A, Medina-Chávez DA, Maside C, Fernández-Santos MR, Ortiz JA, Montoro V, Garde JJ, Soler AJ. (2020). Beneficial Effects of Melatonin in the Ovarian Transport Medium on In Vitro Embryo Production of Iberian Red Deer (*Cervus elaphus hispanicus*). *Animals*.10(5):763. doi: 10.3390/ani10050763. PMID: 32349425; PMCID: PMC7278470.
- 228) Sánchez-Ajofrín I, Iniesta-Cuerda M, Sánchez-Calabuig MJ, Peris-Frau P, Martín-Maestro A, Ortiz JA, Del Rocío Fernández-Santos M, Garde JJ, Gutiérrez-Adán A, Soler AJ. (2020) Oxygen tension during in vitro oocyte maturation and fertilization affects embryo quality in sheep and deer. *Anim Reprod Sci*. 213:106279. doi: 10.1016/j.anireprosci.2020.106279. Epub 2020 Jan 10. PMID: 31987329.
- 229) Sánchez-Rubio F, Soria-Meneses PJ, Jurado-Campos A, Bartolomé-García J, Gómez-Rubio V, Soler AJ, Arroyo-Jimenez MM, Santander-Ortega MJ, Plaza-Oliver M, Lozano MV, Garde JJ, Fernández-Santos MR. (2020) Nanotechnology in reproduction: Vitamin E nanoemulsions for reducing oxidative stress in sperm cells. *Free Radic Biol Med*. 160:47-56. doi: 10.1016/j.freeradbiomed.2020.07.024. Epub 2020 Aug 5. PMID: 32768571.
- 230) Santos N, Richomme C, Nunes T, Vicente J, Alves PC, de la Fuente J, Correia-Neves M, Boschiroli ML, Delahay R, Gortázar C. (2020) Quantification of the animal tuberculosis host community offers insights for control. *Pathogens* 9: 421.
- 231) Saxmose Nielsen S, Alvarez J, Bicout DJ, Calistri P, Depner K, Drewe JA, Garin-Bastuji B, Gonzales Rojas JL, Gortázar Schmidt C, Michel V, Miranda Chueca MÁ, Roberts HC, Sihvonen LH, Spooler H, Stahl K, Viltrop A, Winckler C, Candiani D, Fabris C, Van der Stede Y, Velarde A. (2020) Welfare of pigs during killing for purposes other than slaughter. *EFSA Journal*. 18:7, Article number e06195
- 232) Saxmose Nielsen S, Alvarez J, Bicout DJ, Calistri P, Depner K, Drewe JA, Garin-Bastuji B, Gonzales Rojas JL, Gortázar Schmidt C, Michel V, Miranda Chueca MÁ, Roberts HC, Sihvonen LH, Stahl K, Velarde Calvo A, Viltrop A, Winckler C, Candiani D, Fabris C,

- Mosbach-Schulz O, Van der Stede Y, Spoolder H, EFSA Panel on Animal Health and Welfare (AHAW) (2020) Scientific opinion concerning the killing of rabbits for purposes other than slaughter. *EFSA Journal*. 18:1, Article number e05943.
- 233) Saxmose Nielsen S, Alvarez J, Bicout DJ, Calistri P, Depner K, Drewe JA, Garin-Bastuji B, Gonzales Rojas JL, Gortázar Schmidt C, Michel V, Miranda Chueca MÁ, Roberts HC, Sihvonen LH, Stahl K, Velarde Calvo A, Viltrop A, Winckler C, Candiani D, Fabris C, Mosbach-Schulz O, Van der Stede Y, Spoolder H, EFSA Panel on Animal Health and Welfare (AHAW) (2020) *EFSA Journal*. 18:1, Article number e05927
- 234) Saxmose Nielsen S, Alvarez J, Bicout DJ, Calistri P, Depner K, Drewe JA, Garin-Bastuji B, Gonzales Rojas JL, Gortázar Schmidt C, Michel V, Miranda Chueca MÁ, Roberts HC, Sihvonen LH, Spoolder H, Stahl K, Velarde Calvo A, Viltrop A, Buijs S, Edwards S, Candiani D, Mosbach-Schulz O, Van der Stede Y, Winckler C, EFSA Panel on Animal Health and Welfare (AHAW) (2020) Health and welfare of rabbits farmed in different production systems. *EFSA Journal*. 18:1, Article number e05944
- 235) Segura A, Delibes-Mateos M, Acevedo P. (2020) Implications for Conservation of Collection of Mediterranean Spur-Thighed Tortoise as Pets in Morocco: Residents' Perceptions, Habits, and Knowledge. *Animals* 10 (2), 265
- 236) Segura A, Jimenez J, Acevedo P. (2020) Predation of young tortoises by ravens: the effect of habitat structure on tortoise detectability and abundance. *Scientific Reports* 10 (1), 1-9
- 237) Soriano JA, García-Contreras R, de la Fuente J, Armas O, Orozco-Jimenez LY, Agudelo JR. (2020) Genotoxicity and mutagenicity of particulate matter emitted from diesel, gas to liquid, biodiesel, and farnesane fuels: A toxicological risk assessment. *Fuel* 282: 118763.
- 238) Štiavnická M, García-Álvarez O, Ulčová-Gallová Z, Sutovsky P, Abril-Parreño L, Dolejšová M, Římnáčová H, Moravec J, Hošek P, Lošan P, Gold L, Fenclová T, Králíčková M, Nevoral J. (2020) H3K4me2 accompanies chromatin immaturity in human spermatozoa: an epigenetic marker for sperm quality assessment. *Systems Biology in Reproductive Medicine*. 66:1, Pages 3-11
- 239) Torina A, Blanda V, Villari S, Piazza A, La Russa F, Grippi F, Pio La Manna M, Di Liberto D, de la Fuente J, Sireci G. (2020) Immune response to tick-borne hemoparasites: host adaptive immune response mechanisms as potential targets for therapies and vaccines. *International Journal of Molecular Sciences* 21: 8813.
- 240) Torina A, Villari S, Blanda V, Vullo S, Pio La Manna M, Shekarkar Azgomi M, Di Liberto D, de la Fuente J, Sireci G. (2020) Innate immune response to tick-borne pathogens: cellular and molecular mechanisms induced in the hosts. *International Journal of Molecular Sciences* 21: 5437.
- 241) Triguero-Ocaña R, Laguna E, Jiménez-Ruiz S, Fernández-López J, García-Bocanegra I, Barasona JÁ, Risalde MÁ, Montoro V, Vicente J, Acevedo P. (2020) The wildlife-livestock

- interface on extensive free-ranging pig farms in central Spain during the “montanera” period. *Transboundary and Emerging Diseases*. <https://doi.org/10.1111/tbed.13854>
- 242) Triguero-Ocaña R, Vicente J, Palencia P, Laguna E, Acevedo P. (2020) Quantifying wildlife-livestock interactions and their spatio-temporal patterns: Is regular grid camera trapping a suitable approach? *Ecological Indicators*, 117, 106565
- 243) Triguero-Ocaña, R., Martínez-López, B., Vicente, J., Barasona, J.A., Martínez-Guijosa, J. and Acevedo, P. (2020). Dynamic Network of Interactions in the Wildlife-Livestock Interface in Mediterranean Spain: An Epidemiological Point of View. *Pathogens*, 9(2), 120 <https://doi.org/10.3390/pathogens9020120> (registering DOI)
- 244) Ucheddu S, Pintus E, Garde JJ, Fleba L, Muzzeddu M, Pudda F, Bogliolo L, Strina A, Nieddu S, Ledda S. (2020) Post-mortem recovery, in vitro maturation and fertilization of fallow deer (*Dama dama*, Linnaeus 1758) oocytes collected during reproductive and no reproductive season. *Reprod Domest Anim*. doi: 10.1111/rda.13773. Epub ahead of print. PMID: 32654335.
- 245) Urra JM, Ferreras-Colino E, Contreras M, Cabrera CM, Fernández de Mera IG, Villar M, Cabezas-Cruz A, Gortázar C, de la Fuente J. (2020) The antibody response to the glycan α -Gal correlates with COVID-19 disease symptoms. *Journal of Medical Virology*. 1–11. DOI: 10.1002/jmv.26575
- 246) Valente AM, Acevedo P, Figueiredo AM, Fonseca C, Torres RT. (2020) Overabundant wild ungulate populations in Europe: management with consideration of socio-ecological consequences. *Mammal Review* 50 (4), 353-366
- 247) Valente AM, Acevedo P, Figueiredo AM, Martins R, Fonseca C, Torres RT, Delibes-Mateos M. (2020) Dear deer? Maybe for now. People's perception on red deer (*Cervus elaphus*) populations in Portugal. *Science of The Total Environment* 748, 141400
- 248) Villar M, Fernández de Mera IG, Artigas-Jerónimo A, Contreras M, Gortázar C, de la Fuente J. (2020) Coronavirus in cat flea: findings and questions regarding COVID-19. *Parasites & Vectors* 13: 409.
- 249) Villar M, Pacheco I, Merino O, Contreras M, Mateos-Hernández L, Prado E, Barros-Picanco DK, Lima-Barbero JF, Artigas-Jerónimo S, Alberdi P, Fernández de Mera IG, Estrada-Peña A, Cabezas-Cruz A, de la Fuente J. (2020) Tick and host derived compounds modulate the biochemical properties of the cement complex substance. *Biomolecules* 10: 555.
- 250) Zalazar L, Iniesta-Cuerda M, Sánchez-Ajofrín I, Garde JJ, Soler Valls AJ, Cesari A. (2020) Recombinant SPINK3 improves ram sperm quality and in vitro fertility after cryopreservation. *Theriogenology*. 144:45-55. doi:10.1016/j.theriogenology.2019.12.019. Epub 2019 Dec 27. PMID: 31911322.
- 251) Roy, A., Infantes-Lorenzo, J.A., Domínguez, M., Moreno, I., Pérez, M., García, N., García-Seco, T., Álvarez, J., Romero, B., Gortázar, C., de Juan, L., Domínguez, L., Bezos,

- J. 2020. Evaluation of a new enzyme-linked immunosorbent assay for the diagnosis of tuberculosis in goat milk. *Research in Veterinary Science* 128, 217-223.
- 252) Castillo-Cuenca, J.C., Díaz-Cao, J.M., Martínez-Moreno, Á., Cano-Terriza, D., Jiménez-Ruiz, S., Almería, S., García-Bocanegra, I. 2020. Seroepidemiology of *Toxoplasma gondii* in extensively raised Iberian pigs in Spain. *Preventive Veterinary Medicine* 175, 104854.
- 253) Estrada-Peña, A., Nava, S., Tarragona, E., Bermúdez, S., de la Fuente, J., Domingos, A., Labruna, M., Mosqueda, J., Merino, O., Szabó, M., Venzal, J.M., Guglielmone, A.A. 2019. Species occurrence of ticks in South America, and interactions with biotic and abiotic traits. *Scientific data* 6, 299.
- 254) de la Fuente, J., Contreras, M., Kasaija, P.D., Gortazar, C., Ruiz-Fons, J.F., Mateo, R., Kabi, F. 2019. Towards a multidisciplinary approach to improve cattle health and production in Uganda. *Vaccines* 7, 165.
- 255) Alberdi, P., Cabezas-Cruz, A., Prados, P.E., Rayo, M.V., Artigas-Jerónimo, S., de la Fuente, J. 2019. The redox metabolic pathways function to limit *Anaplasma phagocytophilum* infection and multiplication while preserving fitness in tick vector cells. *Scientific Reports* 9, 13236.
- 256) Artigas-Jerónimo, S., Alberdi, P., Villar Rayo, M., Cabezas-Cruz, A., Prados, P.J.E., Mateos-Hernández, L., de la Fuente, J. 2019. *Anaplasma phagocytophilum* modifies tick cell microRNA expression and upregulates isc-mir-79 to facilitate infection by targeting the Roundabout protein 2 pathway. *Scientific Reports* 9, 9073.
- 257) Tanner, E., White, A., Acevedo, P., Balseiro, A., Marcos, J., Gortázar, C. 2019. Wolves contribute to disease control in a multi-host system. *Scientific Reports* 9, 7940.
- 258) Lima-Barbero, J.F., Contreras, M., Mateos-Hernández, L., Mata-Lorenzo, F.M., Triguero-Ocaña, R., Sparagano, O., Finn, R.D., Strube, C., Price, D.R.G., Nunn, F., Bartley, K., Höfle, U., Boadella, M., Nisbet, A.J., de la Fuente, J., Villar, M. 2019. A vaccinology approach to the identification and characterization of *Dermanyssus gallinae* candidate protective antigens for the control of poultry red mite infestations. *Vaccines* 7, 190.
- 259) Young, M.R., Moraza, M.L., Ueckermann, E., Heylen, D., Baardsen, L.F., Lima-Barbero, J.F., Gal, S., Gavish-Regev, E., Gottlieb, Y., Roy, L., Recht, E., El Adouzi, M., Palevsky, E. 2019. Linking morphological and molecular taxonomy for the identification of poultry house, soil, and nest dwelling mites in the Western Palearctic. *Scientific Reports* 9, 5784.
- 260) Roy, A., Tomé, I., Romero, B., Lorente-Leal, V., Infantes-Lorenzo, J.A., Domínguez, M., Martín, C., Aguiló, N., Puentes, E., Rodríguez, E., De Juan, L., Risalde, M.A., Gortázar, C., Domínguez, L., Bezos, J. 2019. Evaluation of the immunogenicity and efficacy of BCG and MTBVAC vaccines using a natural transmission model of tuberculosis. *Veterinary Research* 50, 82.

- 261) Soria-Meneses, P.J., Jurado-Campos, A., Montoro, V., Soler, A.J., Garde, J.J., Fernández-Santos, M.D.R. 2019. Ovine sperm DNA oxidation quantification using an 8-OHdG immunodetection assay. **Reproduction in Domestic Animals** 54, 59-64.
- 262) Iniesta-Cuerda, M., Sánchez-Ajofrín, I., García-Álvarez, O., Martín-Maestro, A., Peris-Frau, P., Ortiz, J.A., Fernández-Santos, M.R., Garde, J.J., Soler, A.J. 2019. Influence of foetal calf serum supplementation during in vitro embryo culture in Iberian red deer. **Reproduction in Domestic Animals** 54, 69-71.
- 263) Peris-Frau, P., Álvarez-Rodríguez, M., Martín-Maestro, A., Iniesta-Cuerda, M., Sánchez-Ajofrín, I., Garde, J.J., Rodríguez-Martínez, H., Soler, A.J. 2019. Comparative evaluation of DNA integrity using sperm chromatin structure assay and Sperm-Ovis-Halomax during in vitro capacitation of cryopreserved ram spermatozoa. **Reproduction in Domestic Animals** 54, 46-49.
- 264) Maside, C., Martínez, C.A., Cambra, J.M., Lucas, X., Martínez, E.A., Gil, M.A., Rodríguez-Martínez, H., Parrilla, I., Cuello, C. 2019. Supplementation with exogenous coenzyme Q10 to media for in vitro maturation and embryo culture fails to promote the developmental competence of porcine embryos. **Reproduction in Domestic Animals** 54, 72-77.
- 265) Díez-Delgado, I., Sevilla, I.A., Garrido, J.M., Romero, B., Geijo, M.V., Dominguez, L., Juste, R.A., Aranaz, A., de la Fuente, J., Gortazar, C. 2019. Tuberculosis vaccination sequence effect on protection in wild boar. **Comparative Immunology, Microbiology and Infectious Diseases** 66, 101329.
- 266) Cabezas-Cruz, A., Tonk, M., Bleackley, M.R., Valdés, J.J., Barrero, R.A., Hernández-Jarguín, A., Moutailler, S., Vilcinskis, A., Richard-Forget, F., Anderson, M.A., Rodríguez-Valle, M. 2019. Antibacterial and antifungal activity of defensins from the Australian paralysis tick, *Ixodes holocyclus*. **Ticks and Tick-borne Diseases** 10, 101269.
- 267) Lima-Barbero, J.F., Díaz-Sánchez, S., Sparagano, O., Finn, R.D., de la Fuente, J., Villar, M. 2019. Metaproteomics characterization of the alphaproteobacteria microbiome in different developmental and feeding stages of the poultry red mite *Dermanyssus gallinae* (De Geer, 1778). **Avian Pathology** 48, S52-S59.
- 268) Peris-Frau, P., Martín-Maestro, A., Iniesta-Cuerda, M., Sánchez-Ajofrín, I., Mateos-Hernández, L., Garde, J.J., Villar, M., Soler, A.J. 2019. Freezing-thawing procedures remodel the proteome of ram sperm before and after in vitro capacitation. **International Journal of Molecular Sciences** 20, 4596.
- 269) de la Fuente, J., Estrada-Peña, A. 2019. Why new vaccines for the control of ectoparasite vectors have not been registered and commercialized? **Vaccines** 7, 75.
- 270) Caballero-Gómez, J., Jiménez-Ruiz, S., Lopez-Lopez, P., Vicente, J., Risalde, M.A., Cano-Terriza, D., Frias, M., Barasona, J.A., Rivero, A., García-Bocanegra, I., Rivero-Juarez, A. 2019. Emergent subtype of hepatitis E virus genotype 3 in wild boar in Spain. **Transboundary and Emerging Diseases** 66, 1803-1808.

- 271) Fresco-Taboada, A., Risalde, M.A., Gortázar, C., Tapia, I., González, I., Venteo, Á., Sanz, A., Rueda, P. 2019. A lateral flow assay for the rapid diagnosis of *Mycobacterium bovis* infection in wild boar. ***Transboundary and Emerging Diseases*** 66, 2175-2179.
- 272) Díaz-Sánchez, S., Estrada-Peña, A., Cabezas-Cruz, A., de la Fuente, J. 2019. Evolutionary insights into the tick hologenome. ***Trends in Parasitology*** 35, 725-737.
- 273) van Hattem, J.M., Cabal, A., Arcilla, M.S., Alvarez, J., de Jong, M.D., Melles, D.C., Penders, J., Bootsma, M.C.J., van Genderen, P.J., Goorhuis, A., Grobusch, M., Molhoek, N., Oude Lashof, A.M.L., Stobberingh, E.E., Verbrugh, H.A., Schmidt, C.G., Schultsz, C., COMBAT consortium. 2019. Risk of acquisition of human diarrhoeagenic *Escherichia coli* virulence genes in intercontinental travellers: A prospective, multi-centre study. ***Travel Medicine and Infectious Disease*** 31, 101362.
- 274) Ruiz-Ripa, L., Gómez, P., Alonso, C.A., Camacho, M.C., de la Puente, J., Fernández-Fernández, R., Ramiro, Y., Quevedo, M.A., Blanco, J.M., Zarazaga, M., Höfle, U., Torres, C. 2019. Detection of MRSA of lineages CC130-mecC and CC398-mecA and *Staphylococcus delphini*-lnu(A) in magpies and cinereous vultures in Spain. ***Microbial Ecology*** 78, 409-415.
- 275) Portier, J., Ryser-Degiorgis, M.-P., Hutchings, M.R., Monchâtre-Leroy, E., Richomme, C., Larrat, S., Van Der Poel, W.H.M., Dominguez, M., Linden, A., Santos, P.T., Warns-Petit, E., Chollet, J.-Y., Cavalerie, L., Grandmontagne, C., Boadella, M., Bonbon, E., Artois, M. 2019. Multi-host disease management: The why and the how to include wildlife. ***BMC Veterinary Research*** 15, 295.
- 276) Miller, M.A., Gortazar, C., Roos, E.O., Risalde, M.A., Johnathan-Lee, A., Sridhara, A.A., Lyashchenko, K.P. 2019. Serological reactivity to MPB83 and CFP10/ESAT-6 antigens in three suid hosts of *Mycobacterium bovis* infection. ***Veterinary Microbiology*** 235, 285-288.
- 277) Cano-Terriza, D., Almería, S., Caballero-Gómez, J., Díaz-Cao, J.M., Jiménez-Ruiz, S., Dubey, J.P., García-Bocanegra, I. 2019. Serological survey of *Toxoplasma gondii* in captive nonhuman primates in zoos in Spain. ***Comparative Immunology, Microbiology and Infectious Diseases*** 65, 54-57.
- 278) Jiménez-Ruiz, S., Paniagua, J., Isla, J., Martínez-Padilla, A.B., de los Ángeles Risalde, M., Caballero-Gómez, J., Cano-Terriza, D., Pujols, J., Arenas, A., García-Bocanegra, I. 2019. Description of the first Schmallenberg disease outbreak in Spain and subsequent virus spreading in domestic ruminants. ***Comparative Immunology, Microbiology and Infectious Diseases*** 65, 189-193.
- 279) Lima-Barbero, J.F., Sánchez, M.S., Cabezas-Cruz, A., Mateos-Hernández, L., Contreras, M., de Mera, I.G.F., Villar, M., de la Fuente, J. 2019. Clinical gamasoidosis and antibody response in two patients infested with *Ornithonyssus bursa* (Acari: Gamasida: Macronyssidae). ***Experimental and Applied Acarology*** 78, 555-564.

- 280) Hodžić, A., Mateos-Hernández, L., de la Fuente, J., Cabezas-Cruz, A. 2019. Delayed hypersensitivity reaction to mammalian galactose- α -1,3-galactose (α -Gal) after repeated tick bites in a patient from France. **Ticks and Tick-borne Diseases** 10, 1057-1059.
- 281) Trentelman, J.J.A., Teunissen, H., Kleuskens, J.A.G.M., Van De Crommert, J., De La Fuente, J., Hovius, J.W.R., Schetters, T.P.M. 2019. A combination of antibodies against Bm86 and Subolesin inhibits engorgement of *Rhipicephalus australis* (formerly *Rhipicephalus microplus*) larvae in vitro. **Parasites and Vectors** 12, 362.
- 282) Caballero-Gómez, J., Rivero-Juarez, A., Cano-Terriza, D., Risalde, M.A., Lopez-Lopez, P., Frias, M., Jiménez-Ruiz, S., Rivero, A., García-Bocanegra, I. 2019. Survey for Hepatitis E virus infection in non-human primates in zoos in Spain. **Transboundary and Emerging Diseases** 66, 1771-1775.
- 283) Tanner, E., White, A., Lurz, P.W.W., Gortázar, C., Díez-Delgado, I., Boots, M. 2019. The critical role of infectious disease in compensatory population growth in response to culling. **American Naturalist** 194, E1-E12.
- 284) Moraga-Fernández, A., Chaligiannis, I., Cabezas-Cruz, A., Papa, A., Sotiraki, S., de la Fuente, J., G. Fernández de Mera, I. 2019. Molecular identification of spotted fever group Rickettsia in ticks collected from dogs and small ruminants in Greece. **Experimental and Applied Acarology** 78, 421-430.
- 285) Pedrero-Prieto, C.M., Flores-Cuadrado, A., Saiz-Sánchez, D., Úbeda-Bañón, I., Frontiñán-Rubio, J., Alcaín, F.J., Mateos-Hernández, L., De La Fuente, J., Durán-Prado, M., Villar, M., Martínez-Marcos, A., Peinado, J.R. 2019. Human amyloid- β enriched extracts: Evaluation of in vitro and in vivo internalization and molecular characterization. **Alzheimer's Research and Therapy** 11, 56.
- 286) Mama, O.M., Ruiz-Ripa, L., Lozano, C., González-Barrio, D., Ruiz-Fons, J.F., Torres, C. 2019. High diversity of coagulase negative staphylococci species in wild boars, with low antimicrobial resistance rates but detection of relevant resistance genes. **Comparative Immunology, Microbiology and Infectious Diseases** 64, 125-129.
- 287) Barasona, J.A., Gortázar, C., de la Fuente, J., Vicente, J. 2019. Host richness increases tuberculosis disease risk in game-managed areas. **Microorganisms** 7, 182.
- 288) Balseiro, A., Oleaga, Á., Álvarez Morales, L.M., González Quirós, P., Gortázar, C., Prieto, J.M. 2019. Effectiveness of a calf-selective feeder in preventing wild boar access. **European Journal of Wildlife Research** 65, 38.
- 289) de La Fuente, J., Pacheco, I., Villar, M., Cabezas-Cruz, A. 2019. The alpha-Gal syndrome: New insights into the tick-host conflict and cooperation. **Parasites and Vectors** 12, 154.
- 290) Cabezas-Cruz, A., Espinosa, P., Alberdi, P., de la Fuente, J. 2019. Tick-Pathogen Interactions: The metabolic perspective. **Trends in Parasitology** 35, 316-328.

- 291) González-Barrio, D., Ruiz-Fons, F. 2019. *Coxiella burnetii* in wild mammals: A systematic review. **Transboundary and Emerging Diseases** 66, 662-671.
- 292) Zalazar, L., Pagola, P., Miró, M.V., Churio, M.S., Cerletti, M., Martínez, C., Iniesta-Cuerda, M., Soler, A.J., Cesari, A., De Castro, R. 2019. Bacterioruberin extracts from a genetically modified hyperpigmented *Haloferax volcanii* strain: antioxidant activity and bioactive properties on sperm cells. **Journal of Applied Microbiology** 126, 796-810.
- 293) Torrontegi, O., Alvarez, V., Hurtado, A., Sevilla, I.A., Höfle, U., Barral, M. 2019. Naturally avian influenza virus-infected wild birds are more likely to test positive for *Mycobacterium* spp. and *Salmonella* spp. **Avian Diseases** 63, 131-137.
- 294) Infantes-Lorenzo, J.A., Moreno, I., Roy, A., Rivalde, M.A., Balseiro, A., De Juan, L., Romero, B., Bezos, J., Puentes, E., Åkerstedt, J., Tessema, G.T., Gortázar, C., Domínguez, L., Domínguez, M. 2019. Specificity of serological test for detection of tuberculosis in cattle, goats, sheep and pigs under different epidemiological situations. **BMC Veterinary Research** 15, 70.
- 295) Mama, O.M., Ruiz-Ripa, L., Fernández-Fernández, R., González-Barrio, D., Ruiz-Fons, J.F., Torres, C. 2019. High frequency of coagulase-positive staphylococci carriage in healthy wild boar with detection of MRSA of lineage ST398-t011. **FEMS Microbiology Letters** 366, fny292.
- 296) Díaz-Sánchez, S., Hernández-Jarguín, A., Torina, A., de Mera, I.G.F., Blanda, V., Caracappa, S., Gortázar, C., de la Fuente, J. 2019. Characterization of the bacterial microbiota in wild-caught *Ixodes ventralloii*. **Ticks and Tick-borne Diseases** 10, 336-343.
- 297) Infantes-Lorenzo, J.A., Dave, D., Moreno, I., Anderson, P., Lesellier, S., Gormley, E., Dominguez, L., Balseiro, A., Gortázar, C., Dominguez, M., Salguero, F.J. 2019. New serological platform for detecting antibodies against *Mycobacterium tuberculosis* complex in European badgers. **Veterinary Medicine and Science** 5, 61-69.
- 298) Thomas, J., Infantes-Lorenzo, J.A., Moreno, I., Romero, B., Garrido, J.M., Juste, R., Domínguez, M., Domínguez, L., Gortázar, C., Rivalde, M.A. 2019. A new test to detect antibodies against *Mycobacterium tuberculosis* complex in red deer serum. **Veterinary Journal** 244, 98-103.
- 299) Torrontegi, O., Alvarez, V., Acevedo, P., Gerrikagoitia, X., Höfle, U., Barral, M. 2019. Long-term avian influenza virus epidemiology in a small Spanish wetland ecosystem is driven by the breeding anseriformes community. **Veterinary Research** 50, 4.
- 300) Casades-Martí, L., González-Barrio, D., Royo-Hernández, L., Díez-Delgado, I., Ruiz-Fons, F. 2019. Dynamics of Aujeszky's disease virus infection in wild boar in enzootic scenarios. **Transboundary and Emerging Diseases** 00, 1-18.
- 301) Contreras, M., Villar, M., De La Fuente, J. 2019. A vaccinomics approach for the identification of tick protective antigens for the control of *Ixodes ricinus* and *Dermacentor reticulatus* infestations in companion animals. **Frontiers in Physiology** 10, 977.

- 302) De Oya, N.J., Escribano-Romero, E., Camacho, M.-C., Blazquez, A.-B., Martín-Acebes, M.A., Höfle, U., Saiz, J.-C. 2019. A recombinant subviral particle-based vaccine protects magpie (*Pica pica*) against West Nile virus infection. **Frontiers in Microbiology** 10, 1133.
- 303) Díaz-Sánchez, S., Perrotta, A.R., Rockafellow, I., Alm, E.J., Okimoto, R., Hawken, R., Hanning, I. 2019. Using fecal microbiota as biomarkers for predictions of performance in the selective breeding process of pedigree broiler breeders. **PLoSone** 14, e0216080.
- 304) Contreras, M., Kasaija, P.D., Merino, O., De La Cruz-Hernandez, N.I., Gortazar, C., De La Fuente, J. 2019. Oral vaccination with a formulation combining *Rhipicephalus microplus* subolesin with heat inactivated *Mycobacterium bovis* reduces tick infestations in cattle. **Frontiers in Cellular and Infection Microbiology** 9, 45.
- 305) Štiavnická, M., García-Álvarez, O., Ulčová-Gallová, Z., Sutovsky, P., Abril-Parreño, L., Dolejšová, M., Řimnáčová, H., Moravec, J., Hošek, P., Lošan, P., Gold, L., Fenclová, T., Králíčková, M., Nevoral, J. 2019. H3K4me2 accompanies chromatin immaturity in human spermatozoa: an epigenetic marker for sperm quality assessment. **Systems Biology in Reproductive Medicine** 3, 1-9.
- 306) Queirós, J., Villar, M., Hernández-Jarguín, A., López, V., Fernández de Mera, I., Vicente, J., Alves, P.C., Gortazar, C., Fuente, J.D.L. 2019. A metaproteomics approach reveals changes in mandibular lymph node microbiota of wild boar naturally exposed to an increasing trend of *Mycobacterium tuberculosis* complex infection. **Tuberculosis** 114, 103-112.
- 307) Antunes, S., Couto, J., Ferrolho, J., Sanches, G.S., Charrez, J.O.M., De La Cruz Hernández, N., Mazuz, M., Villar, M., Shkap, V., De La Fuente, J., Domingos, A. 2019. Transcriptome and proteome response of *Rhipicephalus annulatus* tick vector to *Babesia bigemina* infection. **Frontiers in Physiology** 10, 318.
- 308) Thomas, J., Infantes-Lorenzo, J.A., Moreno, I., Cano-Terriza, D., de Juan, L., García-Bocanegra, I., Domínguez, L., Domínguez, M., Gortázar, C., Risalde, M.A. 2019. Validation of a new serological assay for the identification of *Mycobacterium tuberculosis* complex-specific antibodies in pigs and wild boar. **Preventive Veterinary Medicine** 162, 11-17.
- 309) Manjunathachar, H.V., Kumar, B., Saravanan, B.C., Choudhary, S., Mohanty, A.K., Nagar, G., Chigure, G., Ravi Kumar, G.V.P.P.S., de la Fuente, J., Ghosh, S. 2019. Identification and characterization of vaccine candidates against *Hyalomma anatolicum*—Vector of Crimean-Congo haemorrhagic fever virus. **Transboundary and Emerging Diseases** 66, 422-434.
- 310) Queirós, J., Acevedo, P., Santos, J.P.V., Barasona, J., Beltran-Beck, B., González-Barrio, D., Armenteros, J.A., Díez-Delgado, I., Boadella, M., de Mera, I.F., Ruiz-Fons, J.F., Vicente, J., de la Fuente, J., Gortázar, C., Searle, J.B., Alves, P.C. 2019. Red deer in Iberia: Molecular ecological studies in a southern refugium and inferences on European postglacial colonization history. **PLoS ONE** 14, e0210282.

- 311) Franco-Martínez, L., Villar, M., Tvarijonaviciute, A., Escribano, D., Bernal, L.J., Cerón, J.J., Thomas, M.D.C., Mateos-Hernández, L., Tecles, F., de la Fuente, J., López, M.C., Martínez-Subiela, S. 2019. Serum proteome of dogs at subclinical and clinical onset of canine leishmaniosis. ***Transboundary and Emerging Diseases***.
- 312) Artigas-Jerónimo, S., Estrada-Peña, A., Cabezas-Cruz, A., Alberdi, P., Villar, M., De La Fuente, J. 2019. Modeling modulation of the tick regulome in response to *Anaplasma phagocytophilum* for the identification of new control targets. ***Frontiers in Physiology*** 10, 462.
- 313) Calero-Bernal, R., Santín, M., Maloney, J.G., Martín-Pérez, M., Habela, M.A., Fernández-García, J.L., Figueiredo, A., Nájera, F., Palacios, M.J., Mateo, M., Balseiro, A., Barral, M., Lima-Barberoi, J.F., Köster, P.C., Carmena, D. 2019. *Blastocystis* sp. Subtype Diversity in Wild Carnivore Species from Spain. ***Journal of Eukaryotic Microbiology***.
- 314) Cabezas-Cruz, A., Hodžić, A., Román-Carrasco, P., Mateos-Hernández, L., Duscher, G.G., Sinha, D.K., Hemmer, W., Swoboda, I., Estrada-Peña, A., De La Fuente, J. 2019. Environmental and molecular drivers of the α -Gal syndrome. ***Frontiers in Immunology*** 10, 1210.
- 315) Murgia, M.V., Bell-Sakyi, L., de la Fuente, J., Kurtti, T.J., Makepeace, B.L., Mans, B., McCoy, K.D., Munderloh, U., Plantard, O., Rispe, C., Valle, M.R., Tabor, A., Thangamani, S., Thimmapuram, J., Hill, C.A. 2019. Meeting the challenge of tick-borne disease control: A proposal for 1000 *Ixodes* genomes. ***Ticks and Tick-borne Diseases*** 10, 213-218.
- 316) Queirós, J., Alves, P.C., Vicente, J., Gortázar, C., De La Fuente, J. 2018. Genome-wide associations identify novel candidate loci associated with genetic susceptibility to tuberculosis in wild boar. ***Scientific Reports*** 8, 980.
- 317) Lopez, V., van der Heijden, E., Villar, M., Michel, A., Alberdi, P., Gortázar, C., Rutten, V., de la Fuente, J. 2018. Comparative proteomics identified immune response proteins involved in response to vaccination with heat-inactivated *Mycobacterium bovis* and mycobacterial challenge in cattle. ***Veterinary Immunology and Immunopathology*** 206, 54-64.
- 318) Cabezas-Cruz, A., Espinosa, P.J., Alberdi, P., Šimo, L., Valdés, J.J., Mateos-Hernández, L., Contreras, M., Rayo, M.V., de la Fuente, J. 2018. Tick galactosyltransferases are involved in α -Gal synthesis and play a role during *Anaplasma phagocytophilum* infection and *Ixodes scapularis* tick vector development. ***Scientific Reports*** 8, 14224.
- 319) Álvarez-Alonso, R., Barandika, J.F., Ruiz-Fons, F., Ortega-Araiztegi, I., Jado, I., Hurtado, A., García-Pérez, A.L. 2018. Stable levels of *Coxiella burnetii* prevalence in dairy sheep flocks but changes in genotype distribution after a 10-year period in northern Spain. ***Acta Veterinaria Scandinavica*** 60, 75.

- 320) Artigas-Jerónimo, S., Villar, M., Cabezas-Cruz, A., Valdés, J.J., Estrada-Peña, A., Alberdi, P., De La Fuente, J. 2018. Functional evolution of subolesin/akirin. **Frontiers in Physiology** 9, 1612.
- 321) Queirós, J., Vicente, J. 2018. Inbreeding shapes tuberculosis progression in female adult badgers (*Melesmeles*). **Journal of Animal Ecology** 87, 1497-1499.
- 322) Cano-Terriza, D., Risalde, M.A., Rodríguez-Hernández, P., Napp, S., Fernández-Morente, M., Moreno, I., Bezos, J., Fernández-Molera, V., Sáez, J.L., García-Bocanegra, I. 2018. Epidemiological surveillance of *Mycobacterium tuberculosis* complex in extensively raised pigs in the south of Spain. **Preventive Veterinary Medicine** 159, 87-91.
- 323) Carvajal-de la Fuente, V., Merino-Charrez, O., Tovar-Carman, E., Rodríguez-Camarillo, S.D., Lagunes-Quintanilla, R.E., Muñoz-Tenería, F.A., Contreras, M., de la Fuente, J. 2018. Differential expression analysis for subolesin in *Rhipicephalus microplus* infected with *Anaplasma marginale*. **Experimental and Applied Acarology** 76, 229-241.
- 324) Cano-Terriza, D., Risalde, M.A., Jiménez-Ruiz, S., Vicente, J., Isla, J., Paniagua, J., Moreno, I., Gortázar, C., Infantes-Lorenzo, J.A., García-Bocanegra, I. 2018. Management of hunting waste as control measure for tuberculosis in wild ungulates in south-central Spain. **Transboundary and Emerging Diseases** 65, 1190-1196.
- 325) Roy, Á., Risalde, M.A., Bezos, J., Casal, C., Romero, B., Sevilla, I., Díez-Guerrier, A., Rodríguez-Bertos, A., Domínguez, M., Garrido, J., Gortázar, C., Domínguez, L. 2018. Response of goats to intramuscular vaccination with heat-killed *Mycobacterium bovis* and natural challenge. **Comparative Immunology, Microbiology and Infectious Diseases** 60, 28-34.
- 326) Hornok, S., Szőke, K., Estók, P., Krawczyk, A., Haarsma, A.-J., Kováts, D., Boldogh, S.A., Morandini, P., Szekeres, S., Takács, N., Kontschán, J., Meli, M.L., Fernández de Mera, I.G., de la Fuente, J., Gyuranecz, M., Sulyok, K.M., Weibel, B., Gönczi, E., de Bruin, A., Sprong, H., Hofmann-Lehmann, R. 2018. Assessing bat droppings and predatory bird pellets for vector-borne bacteria: molecular evidence of bat-associated *Neorickettsia* sp. in Europe. **Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology** 111, 1707-1717.
- 327) Artigas-Jerónimo, S., De La Fuente, J., Villar, M. 2018. Interactomics and tick vaccine development: new directions for the control of tick-borne diseases. **Expert Review of Proteomics** 15, 627-635.
- 328) Estrada-Peña, A., Villar, M., Artigas-Jerónimo, S., López, V., Alberdi, P., Cabezas-Cruz, A., de la Fuente, J. 2018. Use of graph theory to characterize human and arthropod vector cell protein response to infection with *Anaplasma phagocytophilum*. **Frontiers in Cellular and Infection Microbiology** 8, art. no. 265.
- 329) Sánchez-Rubio, F., Fernández-Santos, M.R., Castro-Vázquez, L., García-Álvarez, O., Maroto-Morales, A., Soler, A.J., Martínez-Pastor, F., Garde, J.J. 2018. Cinnamtannin B-1, a novel antioxidant for sperm in red deer. **Animal Reproduction Science** 195, 44-52.

- 330) Obregón, D., Corona, B.G., de la Fuente, J., Cabezas-Cruz, A., Gonçalves, L.R., Matos, C.A., Armas, Y., Hinojosa, Y., Alfonso, P., Oliveira, M.C.S., Machado, R.Z. 2018. Molecular evidence of the reservoir competence of water buffalo (*Bubalus bubalis*) for *Anaplasma marginale* in Cuba. **Veterinary Parasitology: Regional Studies and Reports** 13, 80-187.
- 331) Serrano, M., Sevilla, I.A., Fuertes, M., Geijo, M., Risalde, M.Á., Ruiz-Fons, J.F., Gortazar, C., Juste, R.A., Domínguez, L., Elguezabal, N., Garrido, J.M. 2018. Different lesion distribution in calves orally or intratracheally challenged with *Mycobacterium bovis*: Implications for diagnosis. **Veterinary Research** 49, 74.
- 332) Risalde, M.A., López, V., Contreras, M., Mateos-Hernández, L., Gortázar, C., de la Fuente, J. 2018. Control of mycobacteriosis in zebrafish (*Danio rerio*) mucosally vaccinated with heat-inactivated *Mycobacterium bovis*. **Vaccine** 36, 4447-4453.
- 333) De La Fuente, J., Villar, M., Estrada-Peña, A., Olivas, J.A. 2018. High throughput discovery and characterization of tick and pathogen vaccine protective antigens using vaccinomics with intelligent Big Data analytic techniques. **Expert Review of Vaccines** 17, 569-576.
- 334) Hernández-Jarguín, A., Díaz-Sánchez, S., Villar, M., de la Fuente, J. 2018. Integrated metatranscriptomics and metaproteomics for the characterization of bacterial microbiota in unfed *Ixodes icinus*. **Ticks and Tick-borne Diseases** 9, 1241-1251.
- 335) de la Fuente, J. 2018. Controlling ticks and tick-borne diseases...looking forward. **Ticks and Tick-borne Diseases** 9, 1354-1357.
- 336) Díez-Delgado, I., Sevilla, I.A., Romero, B., Tanner, E., Barasona, J.A., White, A.R., Lurz, P.W.W., Boots, M., de la Fuente, J., Dominguez, L., Vicente, J., Garrido, J.M., Juste, R.A., Aranaz, A., Gortazar, C. 2018. Impact of piglet oral vaccination against tuberculosis in endemic free-ranging wild boar populations. **Preventive Veterinary Medicine** 155, 11-20.
- 337) Santín, M., Calero-Bernal, R., Carmena, D., Mateo, M., Balseiro, A., Barral, M., Lima Barbero, J.F., Habela, M.Á. 2018. Molecular Characterization of *Enterocytozoon bieneusi* in wild carnivores in Spain. **Journal of Eukaryotic Microbiology** 65, 468-474.
- 338) Bonnet, S.I., Nijhof, A.M., de la Fuente, J. 2018. Editorial: Tick-host-pathogen interactions. **Frontiers in Cellular and Infection Microbiology**, 8, 194.
- 339) Estrada-Peña, A., de la Fuente, J. 2018. The fossil record and the origin of ticks revisited. **Experimental and Applied Acarology** 75, 255-261.
- 340) Anel-López, L., Garcia-Álvarez, O., Tarantini, T., Del Olmo, D., Ortiz, J.A., Ledda, S., Martínez, E.A., Soler, A.J., Roca, J., Fernández Santos, M.R., Vázquez, J.M., Parrilla, I., Garde, J.J. 2018. Influence of insemination time on the fertility of sex sorted frozen-thawed Y-sperm in red deer. **Theriogenology** 113, 171-175.

- 341) Santos, J.P.V., Acevedo, P., Carvalho, J., Queirós, J., Villamuelas, M., Fonseca, C., Gortázar, C., López-Olvera, J.R., Vicente, J. 2018. The importance of intrinsic traits, environment and human activities in modulating stress levels in a wild ungulate. **Ecological Indicators** 89, 706-715.
- 342) Antunes, S., Couto, J., Ferrolho, J., Rodrigues, F., Nobre, J., Santos, A.S., Margarida Santos-Silva, M., de la Fuente, J., Domingos, A. 2018. *Rhipicephalus bursa* sialotranscriptomic response to blood feeding and *Babesia ovis* infection: Identification of candidate protective antigens. **Frontiers in Cellular and Infection Microbiology** 8, 116.
- 343) Couto, J., Tonk, M., Ferrolho, J., Antunes, S., Vilcinskas, A., de la Fuente, J., Domingos, A., Cabezas-Cruz, A. 2018. Antiplasmodial activity of tick defensins in a mouse model of malaria. **Ticks and Tick-borne Diseases** 9, 844-849.
- 344) Soman, M., Mini, M., Joseph, S., Thomas, J., Chacko, N., Sumithra, T.G., Ambily, R., Mani, B.K., Balan, R. 2018. Cloning and sequence analysis of a partial CDS of leptospiral ligA gene in pET-32a - *Escherichia coli* DH5α system. **Veterinary World** 11, 557-561.
- 345) Jiménez de Oya, N., Camacho, M.-C., Blázquez, A.-B., Lima-Barbero, J.-F., Saiz, J.-C., Höfle, U., Escribano-Romero, E. 2018. High susceptibility of magpie (*Pica pica*) to experimental infection with lineage 1 and 2 West Nile virus. **PLoS Neglected Tropical Diseases** 12, e0006394.
- 346) Horcajada-Sánchez, F., Navarro-Castilla, Á., Boadella, M., Barja, I. 2018. Influence of livestock, habitat type, and density of roe deer (*Capreolus capreolus*) on parasitic larvae abundance and infection seroprevalence in wild populations of roe deer from central Iberian Peninsula. **Mammal Research** 63, 213-222.
- 347) Chaligiannis, I., Fernández de Mera, I.G., Papa, A., Sotiraki, S., de la Fuente, J. Molecular identification of tick-borne pathogens in ticks collected from dogs and small ruminants from Greece. 2018. **Experimental and Applied Acarology** 74, 443-453.
- 348) Santos, J.P.V., Vicente, J., Carvalho, J., Queirós, J., Villamuelas, M., Albanell, E., Acevedo, P., Gortázar, C., López-Olvera, J.R., Fonseca, C. 2018. Determining changes in the nutritional condition of red deer in Mediterranean ecosystems: Effects of environmental, management and demographic factors. **Ecological Indicators** 87, 261-271.
- 349) Hornok, S., Sugár, L., Fernández de Mera, I.G., de la Fuente, J., Horváth, G., Kovács, T., Micsutka, A., Gönczi, E., Flaisz, B., Takács, N., Farkas, R., Meli, M.L., Hofmann-Lehmann, R. 2018. Tick- and fly-borne bacteria in ungulates: The prevalence of *Anaplasma phagocytophilum*, haemoplasmas and *Rickettsiae* in water buffalo and deer species in Central Europe, Hungary. **BMC Veterinary Research** 14, 98.
- 350) Carrasco-García, R., Barroso, P., Perez-Olivares, J., Montoro, V., Vicente, J. 2018. Consumption of big game remains by scavengers: A potential risk as regards disease transmission in central Spain. **Frontiers in Veterinary Science** 5, 4.

- 351) Díaz-Sánchez, S., Hernández-Jarguín, A., Fernández de Mera, I.G., Alberdi, P., Zwegarth, E., Gortazar, C., de la Fuente, J. 2018. Draft genome sequences of *Anaplasma phagocytophilum*, *A. marginale*, and *A. ovis* isolates from different hosts. **Genome Announcements** 6, e01503-17.
- 352) Lyashchenko, K.P., Gortázar, C., Miller, M.A., Waters, W.R. 2018. Spectrum of antibody profiles in tuberculous elephants, cervids, and cattle. **Veterinary Microbiology** 214, 89-92.
- 353) Villar, M., Mateos-Hernández, L., de la Fuente, J. 2018. The impact of post-genomics approaches in neurodegenerative demyelinating diseases: The case of Guillain-Barré syndrome. **Current Medicinal Chemistry** 25, 3482-3490.
- 354) Díaz-Sánchez, S., Hernández-Jarguín, A., Torina, A., Fernández de Mera, I.G., Estrada-Peña, A., Villar, M., La Russa, F., Blanda, V., Vicente, J., Caracappa, S., Gortazar, C., de la Fuente, J. 2018. Biotic and abiotic factors shape the microbiota of wild-caught populations of the arbovirus vector *Culicoides imicola*. *Insect Molecular Biology*. Article in Press.
- 355) López, V., Risalde, M.A., Contreras, M., Mateos-Hernández, L., Vicente, J., Gortázar, C., de la Fuente, J. 2018. Heat-inactivated *Mycobacterium bovis* protects zebrafish against mycobacteriosis. **Journal of Fish Diseases** 41, 1515-1528.
- 356) Fernández de Mera, I.G., Blanda, V., Torina, A., Dabaja, M.F., El Romeh, A., Cabezas-Cruz, A., de la Fuente, J. 2018. Identification and molecular characterization of spotted fever group *Rickettsiae* in ticks collected from farm ruminants in Lebanon. **Ticks and Tick-borne Diseases** 9, 104-108.
- 357) González-Barrio, D., Ortiz, J.A., Ruiz-Fons, F. 2017. Estimating the efficacy of a commercial phase I inactivated vaccine in decreasing the prevalence of *Coxiella burnetii* Infection and Shedding in Red Deer (*Cervus elaphus*). **Frontiers in Veterinary Science** 4, 208.
- 358) Cabezas-Cruz, A., de la Fuente, J. 2017. Immunity to α -Gal: The opportunity for malaria and tuberculosis control. **Frontiers in Immunology** 8, 1733.
- 359) Couto, J., Antunes, S., Pinheiro-Silva, R., Do Rosário, V., De La Fuente, J., Domingos, A. Solute carriers affect *Anopheles stephensi* survival and *Plasmodium berghei* infection in the salivary glands. **Scientific Reports** 7, 6141.
- 360) Cabezas-Cruz, A., de la Fuente, J. 2017. Prevalence of type I sensitization to alpha-gal in forest service employees and hunters: Is the blood type an overlooked risk factor in epidemiological studies of the α -Gal syndrome? **Allergy: European Journal of Allergy and Clinical Immunology** 72, 2044-2047.
- 361) González-Álvarez, V.H., Fernández de Mera, I.G., Cabezas-Cruz, A., de la Fuente, J., Ortega-Morales, A.I., Almazán, C. 2017. Molecular survey of Rickettsial organisms in

- ectoparasites from a dog shelter in Northern Mexico. **Veterinary Parasitology: Regional Studies and Reports** 10, 143-148.
- 362) Cabezas-Cruz, A., De La Fuente, J. 2017. Immunity to α -Gal: Toward a Single-Antigen Pan-Vaccine to Control Major Infectious Diseases. **ACS Central Science** 3, 140-1142.
- 363) Risalde, M., Thomas, J., Sevilla, I., Serrano, M., Ortíz, J.A., Garrido, J., Domínguez, M., Domínguez, L., Gortázar, C., Ruíz-Fons, J.F. 2017. Development and evaluation of an interferon gamma assay for the diagnosis of tuberculosis in red deer experimentally infected with *Mycobacterium bovis*. **BMC Veterinary Research** 13, 341.
- 364) Infantes-Lorenzo, J.A., Moreno, I., Risalde, M.D.L.Á., Roy, Á., Villar, M., Romero, B., Ibarrola, N., De La Fuente, J., Puentes, E., De Juan, L., Gortázar, C., Bezos, J., Domínguez, L., Domínguez, M. 2017. Proteomic characterisation of bovine and avian purified protein derivatives and identification of specific antigens for serodiagnosis of bovine tuberculosis. **Clinical Proteomics** 14, 36.
- 365) Rivero-Juarez, A., Frias, M., Martinez-Peinado, A., Risalde, M.A., Rodriguez-Cano, D., Camacho, A., García-Bocanegra, I., Cuenca-Lopez, F., Gomez-Villamandos, J.C., Rivero, A. 2017. Familial hepatitis e-outbreak linked to wild boar meat consumption. **Zoonoses and Public Health** 64, 561-565.
- 366) Van Der Heijden, E.M.D.L., Chileshe, J., Vernooij, J.C.M., Gortazar, C., Juste, R.A., Sevilla, I., Crafford, J.E., Rutten, V.P.M.G., Michel, A.L. 2017. Immune response profiles of calves following vaccination with live BCG and inactivated *Mycobacterium bovis* vaccine candidates. **PLoS ONE** 12, e0188448.
- 367) Bárbara, A., Torrontegi, O., Camacho, M.-C., Barral, M., Hernández, J.-M., Höfle, U. Avian influenza virus surveillance in south-central Spain using fecal samples of aquatic birds foraging at landfills. **Frontiers in Veterinary Science** 4, 178.
- 368) Estrada-Peña, A., de la Fuente, J. 2017. Host distribution does not limit the range of the tick *Ixodes ricinus* but impacts the circulation of transmitted pathogens. **Frontiers in Cellular and Infection Microbiology** 7, 405.
- 369) Kumar, B., Manjunathachar, H.V., Nagar, G., Ravikumar, G., de la Fuente, J., Saravanan, B.C., Ghosh, S. 2017. Functional characterization of candidate antigens of *Hyalomma anatolicum* and evaluation of its cross-protective efficacy against *Rhipicephalus microplus*. **Vaccine** 35, 5682-5692.
- 370) Gortázar, C., Fernández-Calle, L.M., Collazos-Martínez, J.A., Mínguez-González, O., Acevedo, P. 2017. Animal tuberculosis maintenance at low abundance of suitable wildlife reservoir hosts: A case study in northern Spain. **Preventive Veterinary Medicine** 146, 150-157.
- 371) Díez-Delgado, I., Rodríguez, O., Boadella, M., Garrido, J.M., Sevilla, I.A., Bezos, J., Juste, R., Domínguez, L., Gortázar, C. 2017. Parenteral vaccination with heat-inactivated

- Mycobacterium bovis* reduces the prevalence of tuberculosis-compatible lesions in farmed wild boar. ***Transboundary and Emerging Diseases*** 64, e18-e21.
- 372) Carpio, A.J., Barasona, J.A., Guerrero-Casado, J., Oteros, J., Tortosa, F.S., Acevedo, P. 2017. An assessment of conflict areas between alien and native species richness of terrestrial vertebrates on a macro-ecological scale in a Mediterranean hotspot. ***Animal Conservation*** 20, 433-443.
- 373) de la Fuente, J., Contreras, M., Estrada-Peña, A., Cabezas-Cruz, A. 2017. Targeting a global health problem: Vaccine design and challenges for the control of tick-borne diseases. ***Vaccine*** 35, 5089-5094.
- 374) Acevedo, P., Ferreres, J., Escudero, M.A., Jimenez, J., Boadella, M., Marco, J. 2017. Population dynamics affect the capacity of species distribution models to predict species abundance on a local scale. ***Diversity and Distributions*** 23, 1008-1017.
- 375) Thomas, J., Risalde, M.Á., Serrano, M., Sevilla, I., Geijo, M., Ortíz, J.A., Fuertes, M., Ruíz-Fons, J.F., de la Fuente, J., Domínguez, L., Juste, R., Garrido, J., Gortázar, C. 2017. The response of red deer to oral administration of heat-inactivated *Mycobacterium bovis* and challenge with a field strain. ***Veterinary Microbiology*** 208, 195-202.
- 376) Malo, A.F., Martínez-Pastor, F., García-González, F., Garde, J., Ballou, J.D., Lacy, R.C. 2017. A father effect explains sex-ratio bias. ***Proceedings of the Royal Society B: Biological Sciences*** 284, 20171159.
- 377) Cabezas-Cruz, A., Espinosa, P.J., Obregón, D.A., Alberdi, P., de la Fuente, J. 2017. *Ixodes scapularis* tick cells control *Anaplasma phagocytophilum* infection by increasing the synthesis of phosphoenolpyruvate from tyrosine. ***Frontiers in Cellular and Infection Microbiology*** 7, 375.
- 378) Contreras, M., Alberdi, P., Fernández De Mera, I.G., Krull, C., Nijhof, A., Villar, M., De La Fuente, J. 2017. Vaccinomics approach to the identification of candidate protective antigens for the control of tick vector infestations and *Anaplasma phagocytophilum* infection. ***Frontiers in Cellular and Infection Microbiology*** 7, 360.
- 379) Roy, A., Risalde, M.A., Casal, C., Romero, B., de Juan, L., Menshaw, A.M., Díez-Guerrier, A., Juste, R.A., Garrido, J.M., Sevilla, I.A., Gortázar, C., Domínguez, L., Bezos, J. 2017. Oral vaccination with heat-inactivated *Mycobacterium bovis* does not interfere with the antemortem diagnostic techniques for tuberculosis in goats. ***Frontiers in Veterinary Science*** 4, 124.
- 380) Villaverde-Morcillo, S., Soler, A.J., Estes, M.C., Castaño, C., Miñano-Berna, A., González, F., Santiago-Moreno, J. 2017. Immature and mature sperm morphometry in fresh and frozen-thawed falcon ejaculates. ***Theriogenology*** 98, 94-100.
- 381) Alonso, C.A., Mora, A., Díaz, D., Blanco, M., González-Barrio, D., Ruiz-Fons, F., Simón, C., Blanco, J., Torres, C. 2017. Occurrence and characterization of stx and/or eae-

- positive *Escherichia coli* isolated from wildlife, including a typical EPEC strain from a wild boar. **Veterinary Microbiology** 207, 69-73.
- 382) Barasona, J.A., Vicente, J., Díez-Delgado, I., Aznar, J., Gortázar, C., Torres, M.J. 2017. Environmental presence of *Mycobacterium tuberculosis* complex in aggregation points at the wildlife/livestock interface. **Transboundary and Emerging Diseases** 64, 1148-1158.
- 383) Contreras, M., Alberdi, P., Mateos-Hernández, L., Fernández de Mera, I.G., García-Pérez, A.L., Vancová, M., Villar, M., Ayllón, N., Cabezas-Cruz, A., Valdés, J.J., Stuen, S., Gortazar, C., de la Fuente, J. 2017. *Anaplasma phagocytophilum* MSP4 and HSP70 proteins are involved in interactions with host cells during pathogen infection. **Frontiers in Cellular and Infection Microbiology** 7, 307.
- 384) Cabezas-Cruz, A., Mateos-Hernández, L., Chmelař, J., Villar, M., de la Fuente, J. 2017. Salivary prostaglandin E2: Role in tick-induced allergy to red meat. **Trends in Parasitology** 33, 495-498.
- 385) Fernández de Mera, I.G., Chaligiannis, I., Hernández-Jarguín, A., Villar, M., Mateos-Hernández, L., Papa, A., Sotiraki, S., Ruiz-Fons, F., Cabezas-Cruz, A., Gortázar, C., de la Fuente, J. 2017. Combination of RT-PCR and proteomics for the identification of Crimean-Congo hemorrhagic fever virus in ticks. **Heliyon** 3, e00353.
- 386) Bonnet, S.I., Binetruy, F., Hernández-Jarguín, A.M., Duron, O. 2017. The tick microbiome: Why non-pathogenic microorganisms matter in tick biology and pathogen transmission. **Frontiers in Cellular and Infection Microbiology** 7, 236.
- 387) Cabal, A., Vicente, J., Alvarez, J., Barasona, J.A., Boadella, M., Dominguez, L., Gortazar, C. 2017. Human influence and biotic homogenization drive the distribution of *Escherichia coli* virulence genes in natural habitats. **Microbiology Open** 6, e00445.
- 388) Park, S.H., Perrotta, A., Hanning, I., Diaz-Sanchez, S., Pendleton, S., Alm, E., Ricke, S.C. 2017. Pasture flock chicken cecal microbiome responses to prebiotics and plum fiber feed amendments. **Poultry Science** 96, 1820-1830.
- 389) Cabezas-Cruz, A., Alberdi, P., Valdés, J.J., Villar, M., De La Fuente, J. 2017. Remodeling of tick cytoskeleton in response to infection with *Anaplasma phagocytophilum*. **Frontiers in Bioscience - Landmark** 22, 1830-1844.
- 390) Barasona, J.A., Torres, M.J., Aznar, J., Gortázar, C., Vicente, J. 2017. DNA detection reveals *Mycobacterium tuberculosis* complex shedding routes in its wildlife reservoir the Eurasian wild boar. **Transboundary and Emerging Diseases** 64, 906-915.
- 391) Blanda, V., Torina, A., La Russa, F., D'Agostino, R., Randazzo, K., Scimeca, S., Giudice, E., Caracappa, S., Cascio, A., de la Fuente, J. 2017. A retrospective study of the characterization of *Rickettsia* species in ticks collected from humans. **Ticks and Tick-borne Diseases** 8, 610-614.

- 392) Casal, C., Infantes, J.A., Risalde, M.A., Díez-Guerrier, A., Domínguez, M., Moreno, I., Romero, B., de Juan, L., Sáez, J.L., Juste, R., Gortázar, C., Domínguez, L., Bezos, J. 2017. Antibody detection tests improve the sensitivity of tuberculosis diagnosis in cattle. **Research in Veterinary Science** 112, 214-221.
- 393) Estrada-Peña, A., de la Fuente, J., Cabezas-Cruz, A. 2017. Functional redundancy and ecological innovation shape the circulation of tick-transmitted pathogens. **Frontiers in Cellular and Infection Microbiology** 7, 234.
- 394) Salinas, L.M., Casais, R., García Marín, J.F., Dalton, K.P., Royo, L.J., del Cerro, A., Gayo, E., Dagleish, M.P., Alberdi, P., Juste, R.A., de la Fuente, J., Balseiro, A. 2017. Vaccination against louping ill virus protects goats from experimental challenge with Spanish goat encephalitis virus. **Journal of Comparative Pathology** 156, 409-418.
- 395) Bezos, J., Casal, C., Álvarez, J., Roy, A., Romero, B., Rodríguez-Bertos, A., Bárcena, C., Díez, A., Juste, R., Gortázar, C., Puentes, E., Aguiló, N., Martín, C., de Juan, L., Domínguez, L. 2017. Evaluation of the *Mycobacterium tuberculosis* SO2 vaccine using a natural tuberculosis infection model in goats. **Veterinary Journal** 223, 60-67.
- 396) Ayllón, N., Jiménez-Marín, Á., Argüello, H., Zaldívar-López, S., Villar, M., Aguilar, C., Moreno, A., De La Fuente, J., Garrido, J.J. 2017. Comparative proteomics reveals differences in host-pathogen interaction between infectious and commensal relationship with *Campylobacter jejuni*. **Frontiers in Cellular and Infection Microbiology** 7, 145.
- 397) de la Fuente, J., Antunes, S., Bonnet, S., Cabezas-Cruz, A., Domingos, A.G., Estrada-Peña, A., Johnson, N., Kocan, K.M., Mansfield, K.L., Nijhof, A.M., Papa, A., Rudenko, N., Villar, M., Alberdi, P., Torina, A., Ayllón, N., Vancova, M., Golovchenko, M., Grubhoffer, L., Caracappa, S., Fooks, A.R., Gortazar, C., Rego, R.O.M. 2017. Tick-Pathogen Interactions and vector competence: Identification of molecular drivers for tick-borne diseases. **Frontiers in Cellular and Infection Microbiology** 7, 114.
- 398) Anel-López, L., Garcia-Álvarez, O., Maroto-Morales, A., Tarantini, T., Del Olmo, D., Ortiz, J.A., Martínez, E.A., Roca, J., Vazquez, J.M., Garde, J.J., Parrilla, I. 2017. Optimization of protocols for Iberian red deer (*Cervus elaphus hispanicus*) sperm handling before sex sorting by flow cytometry. **Theriogenology** 92, 129-136.
- 399) Domingos, A., Pinheiro-Silva, R., Couto, J., do Rosário, V., de la Fuente, J. 2017. The *Anopheles gambiae* transcriptome – a turning point for malaria control. **Insect Molecular Biology** 26, 140-151.
- 400) Romero-Palomo, F., Risalde, M.A., Gómez-Villamandos, J.C. 2017. Immunopathologic Changes in the thymus of calves pre-infected with BVDV and challenged with BHV-1. **Transboundary and Emerging Diseases** 64, 574-584.
- 401) Villamuelas, M., Serrano, E., Espunyes, J., Fernández, N., López-Olvera, J.R., Garel, M., Santos, J., Parra-Aguado, M.Á., Ramanzin, M., Fernández-Aguilar, X., Colom-Cadena, A., Marco, I., Lavín, S., Bartolomé, J., Albanell, E. 2017. Predicting herbivore faecal

- nitrogen using a multispecies near-infrared reflectance spectroscopy calibration. *PLoS ONE* 12, e0176635.
- 402) Carpio, A.J., Guerrero-Casado, J., Barasona, J.A., Tortosa, F.S., Vicente, J., Hillström, L., Delibes-Mateos, M. 2017. Hunting as a source of alien species: a European review. *Biological Invasions* 19, 1197-1211.
- 403) Cabezas-Cruz, A., Estrada-Peña, A., Rego, R.O.M., De la Fuente, J. 2017. Tick-pathogen Ensembles: Do molecular interactions lead ecological innovation? *Frontiers in Cellular and Infection Microbiology* 7, 74.
- 404) Villar, M., Marina, A., de la Fuente, J. 2017. Applying proteomics to tick vaccine development: where are we? *Expert Review of Proteomics* 14, 211-221.
- 405) Cabezas-Cruz, A., Mateos-Hernández, L., Alberdi, P., Villar, M., Riveau, G., Hermann, E., Schacht, A.-M., Khalife, J., Correia-Neves, M., Gortazar, C., De La Fuente, J. 2017. Effect of blood type on anti-a-Gal immunity and the incidence of infectious diseases. *Experimental and Molecular Medicine* 49, e301.
- 406) Alonso, C.A., González-Barrio, D., Ruiz-Fons, F., Ruiz-Ripa, L., Torres, C. 2017. High frequency of B2 phylogroup among non-clonally related fecal *Escherichia coli* isolates from wild boars, including the lineage ST131. *FEMS Microbiology Ecology* 93, fix016.
- 407) Contreras, M., de la Fuente, J. 2017. Control of infestations by *Ixodes ricinus* tick larvae in rabbits vaccinated with aquaporin recombinant antigens. *Vaccine* 35, 1323-1328.
- 408) Ayala, D., Acevedo, P., Pombi, M., Dia, I., Boccolini, D., Costantini, C., Simard, F., Fontenille, D. 2017. Chromosome inversions and ecological plasticity in the main African malaria mosquitoes. *Evolution* 71, 686-701.
- 409) Sonnenburg, J., Ryser-Degiorgis, M.-P., Kuiken, T., Ferroglio, E., Ulrich, R.G., Conraths, F.J., Gortázar, C., Staubach, C., Acevedo, P., Millán, J., Marco, I., Prado, M.M., Ruiz-Fons, F., Agreiter, A., Cadamuro, A., Calabrese, M.S., Capelli, G., Casulli, A., Cetto, E., Chiari, M., Lavazza, A., Orusa, R., Somnavilla, G., Zamboni, U., Bajer, A., Lipowski, A., Barlow, A., Learmount, J., Duff, J.P., Billinis, C., Boue, F., Hars, J., Rossi, S., de Carvalho, I.L., Nuncio, S., Dekkers, L.J.M., Maas, M., Deplazes, P., Meier, R., Glawischnig, W., Steinrigl, A., Golovljova, I., Grunow, R., Jacob, J., Romig, T., Tomaso, H., Isomursu, M., Korro, M.K., Linden, A., Morozov, V., Stanko, M., Turcinaviciene, J., APHAEA project partners. 2017. Harmonizing methods for wildlife abundance estimation and pathogen detection in Europe-a questionnaire survey on three selected host-pathogen combinations. *BMC Veterinary Research* 13, 53.
- 410) Mansfield, K.L., Cook, C., Ellis, R.J., Bell-Sakyi, L., Johnson, N., Alberdi, P., De La Fuente, J., Fooks, A.R. 2017. Tick-borne pathogens induce differential expression of genes promoting cell survival and host resistance in *Ixodes ricinus* cells. *Parasites and Vectors* 10, 81.

- 411) Mateo, M., de Mingo, M.H., de Lucio, A., Morales, L., Balseiro, A., Espí, A., Barral, M., Lima Barbero, J.F., Habela, M.Á., Fernández-García, J.L., Bernal, R.C., Köster, P.C., Cardona, G.A., Carmena, D. 2017. Occurrence and molecular genotyping of *Giardia duodenalis* and *Cryptosporidium* spp. in wild mesocarnivores in Spain. **Veterinary Parasitology** 235, 86-93.
- 412) Shaw, D.K., Wang, X., Brown, L.J., Chávez, A.S.O., Reif, K.E., Smith, A.A., Scott, A.J., McClure, E.E., Boradia, V.M., Hammond, H.L., Sundberg, E.J., Snyder, G.A., Liu, L., Deponte, K., Villar, M., Ueti, M.W., De La Fuente, J., Ernst, R.K., Pal, U., Fikrig, E., Pedra, J.H.F. 2017. Infection-derived lipids elicit an immune deficiency circuit in arthropods. **Nature Communications** 8, 14401.
- 413) Cabezas-Cruz, A., Alberdi, P., Valdés, J.J., Villar, M., de la Fuente, J. 2017. *Anaplasma phagocytophilum* infection subverts carbohydrate metabolic pathways in the tick vector, *Ixodes scapularis*. **Frontiers in Cellular and Infection Microbiology** 7, 23.
- 414) Ruiz-Fons, F. 2017. A review of the current status of relevant zoonotic pathogens in wild swine (*Sus scrofa*) populations: Changes modulating the risk of transmission to humans. **Transboundary and Emerging Diseases** 64, 68-88.
- 415) Anel-López, L., García-Álvarez, O., Parrilla, I., Del Olmo, D., Maroto-Morales, A., Fernandez-Santos, M.R., Ortiz, J.A., Soler, A.J., Martínez, E.M., Vazquez, J.M., Garde, J.J. 2017. Effect of sex-sorting and cryopreservation on the post-thaw sperm quality of Iberian red deer spermatozoa. **Theriogenology** 89, 206-213.
- 416) Martina, B.E., Barzon, L., Pijlman, G.P., de la Fuente, J., Rizzoli, A., Wammes, L.J., Takken, W., van Rij, R.P., Papa, A. 2017. Human to human transmission of arthropod-borne pathogens. **Current Opinion in Virology** 22, 13-21.
- 417) González-Barrio, D., Vieira-Pinto, M., Ruiz-Fons, F. 2017. *Coxiella burnetii* in European game species: Challenges for human health. The principles and practice of Q Fever. **The One Health Paradigm** 14, 245-271.
- 418) Couto, J., Antunes, S., Ferrolho, J., De La Fuente, J., Domingos, A. 2017. Reduction of mosquito survival in mice vaccinated with *Anopheles stephensi* glucose transporter. **BioMed Research International**, 3428186.
- 419) Mateos-Hernández, L., Villar, M., Moral, A., Rodríguez, C.G., Arias, T.A., de la Osa, V., Brito, F.F., de Mera, I.G.F., Alberdi, P., Ruiz-Fons, F., Cabezas-Cruz, A., Estrada-Peña, A., de la Fuente, J. 2017. Tick-host conflict: Immunoglobulin E antibodies to tick proteins in patients with anaphylaxis to tick bite. **Oncotarget** 8, 20630-20644.
- 420) Pedersen, K., Miller, R.S., Anderson, T.D., Pablonia, K.L., Lewis, J.R., Mihalco, R.L., Gortázar, C., Gidlewski, T. 2017. Limited antibody evidence of exposure to *Mycobacterium Bovis* in feral swine (*Sus scrofa*) in the USA. **Journal of Wildlife Diseases** 53, 30-36.

- 421) Silaghi, C., Santos, A.S., Gomes, J., Christova, I., Matei, I.A., Walder, G., Domingos, A., Bell-Sakyi, L., Sprong, H., Von Loewenich, F.D., Oteo, J.A., De La Fuente, J., Dumler, J.S. 2017. Guidelines for the direct detection of *Anaplasma* spp. in diagnosis and epidemiological studies. **Vector-Borne and Zoonotic Diseases** 17, 12-22.
- 422) García-Álvarez, O., Soler, A.J., Maulen, Z., Maroto-Morales, A., Iniesta-Cuerda, M., Martín-Maestro, A., Fernández-Santos, M.R., Garde, J.J. 2016. Selection of red deer spermatozoa with different cryoresistance using density gradients. **Reproduction in Domestic Animals** 51, 895-900.
- 423) Che'Amat, A., Armenteros, J.A., González-Barrio, D., Lima, J.F., Díez-Delgado, I., Barasona, J.A., Romero, B., Lyashchenko, K.P., Ortiz, J.A., Gortázar, C. 2016. Is targeted removal a suitable means for tuberculosis control in wild boar? **Preventive Veterinary Medicine** 135, 132-135.
- 424) de la Fuente, J., Kopáček, P., Lew-Tabor, A., Maritz-Olivier, C. 2016. Strategies for new and improved vaccines against ticks and tick-borne diseases. **Parasite Immunology** 38, 754-769.
- 425) Chaligiannis, I., Musella, V., Rinaldi, L., Cringoli, G., de la Fuente, J., Papa, A., Sotiraki, S. 2016. Species diversity and spatial distribution of ixodid ticks on small ruminants in Greece. **Parasitology Research** 115, 4673-4680.
- 426) Muñoz-Mendoza, M., Romero, B., del Cerro, A., Gortázar, C., García-Marín, J.F., Menéndez, S., Mourelo, J., de Juan, L., Sáez, J.L., Delahay, R.J., Balseiro, A. 2016. Sheep as a potential source of bovine TB: Epidemiology, pathology and evaluation of diagnostic techniques. **Transboundary and Emerging Diseases** 63, 635-646.
- 427) García-Bocanegra, I., Paniagua, J., Gutiérrez-Guzmán, A.V., Lecollinet, S., Boadella, M., Arenas-Montes, A., Cano-Terriza, D., Lowenski, S., Gortázar, C., Höfle, U. 2016. Spatio-temporal trends and risk factors affecting West Nile virus and related flavivirus exposure in Spanish wild ruminants. **BMC Veterinary Research** 12, 249.
- 428) Lozano, C., Gonzalez-Barrio, D., Camacho, M.C., Lima-Barbero, J.F., de la Puente, J., Höfle, U., Torres, C. 2016. Characterization of fecal vancomycin-resistant enterococci with acquired and intrinsic resistance mechanisms in wild animals, Spain. **Microbial Ecology** 72, 813-820.
- 429) González-Barrio, D., Hagen, F., Tilburg, J.J.H.C., Ruiz-Fons, F. 2016. *Coxiella burnetii* Genotypes in Iberian Wildlife. **Microbial Ecology** 72, 890-897.
- 430) Maroto-Morales, A., García-Álvarez, O., Ramón, M., Martínez-Pastor, F., Fernández-Santos, M., Soler, A., Garde, J. 2016. Current status and potential of morphometric sperm analysis. **Asian Journal of Andrology** 18, 863-870.

- 431) Juste, R.A., Alonso-Hearn, M., Garrido, J.M., Abendaño, N., Sevilla, I.A., Gortazar, C., De La Fuente, J., Dominguez, L. 2016. Increased lytic efficiency of bovine macrophages trained with killed mycobacteria. *PLoS ONE* 11, e0165607.
- 432) Lopez-Urueña, E., Anel-López, L., Borragan, S., Ortega Ferrusola, C., Manrique, P., de Paz, P., Anel, L., Alvarez, M. 2016. The use of gelatine in long-term storage (up to 48 hr) at 5°C preserves the pre-freezing and post-thawing quality of brown bear sperm. *Reproduction in domestic animals = Zuchthygiene* 51, 700-707.
- 433) Gortázar, C., Ruiz-Fons, J.F., Höfle, U. 2016. Infections shared with wildlife: an updated perspective. *European Journal of Wildlife Research* 62, 511-525.
- 434) González-Barrio, D., Jado, I., Fernández-de-Mera, I.G., Fernández-Santos, M.R., Rodríguez-Vargas, M., García-Amil, C., Beltrán-Beck, B., Anda, P., Ruiz-Fons, F. 2016. Genotypes of *Coxiella burnetii* in wildlife: Disentangling the molecular epidemiology of a multi-host pathogen. *Environmental Microbiology Reports* 8, 708-714.
- 435) Del Olmo, E., García-Álvarez, O., Maroto-Morales, A., Ramón, M., Iniesta-Cuerda, M., Martínez-Pastor, F., Montoro, V., Soler, A.J., Garde, J.J., Fernández-Santos, M.R. 2016. Oestrous sheep serum balances ROS levels to supply in vitro capacitation of ram spermatozoa. *Reproduction in domestic animals = Zuchthygiene*, 51, 743-750.
- 436) Estrada-Peña, A., Sprong, H., Cabezas-Cruz, A., De La Fuente, J., Ramo, A., Coipan, E.C. 2016. Nested coevolutionary networks shape the ecological relationships of ticks, hosts, and the Lyme disease bacteria of the *Borrelia burgdorferi* (s.l.) complex. *Parasites and Vectors* 9,517.
- 437) De La Fuente, J., Waterhouse, R.M., Sonenshine, D.E., Roe, R.M., Ribeiro, J.M., Sattelle, D.B., Hill, C.A. 2016. Tick genome assembled: New opportunities for research on tick-host-pathogen interactions. *Frontiers in Cellular and Infection Microbiology* 6, 103.
- 438) Che-Amat, A., Risalde, M., González-Barrio, D., Ortíz, J.A., Gortázar, C. 2016. Effects of repeated comparative intradermal tuberculin testing on test results: A longitudinal study in TB-free red deer. *BMC Veterinary Research* 12, 184.
- 439) Alberdi, P., Espinosa, P.J., Cabezas-Cruz, A., de la Fuente, J. 2016. *Anaplasma phagocytophilum* manipulates host cell apoptosis by different mechanisms to establish infection. *Veterinary Sciences* 3, 15.
- 440) Gassó, D., Vicente, J., Mentaberre, G., Soriguer, R., Jiménez Rodríguez, R., Navarro-González, N., Tvarijonavičute, A., Lavín, S., Fernández-Llario, P., Segalés, J., Serrano, E. 2016. Oxidative stress in wild boars naturally and experimentally infected with *Mycobacterium bovis*. *PLoS ONE* 11, e0163971.
- 441) Villar, M., López, V., Ayllón, N., Cabezas-Cruz, A., López, J.A., Vázquez, J., Alberdi, P., De La Fuente, J. 2016. The intracellular bacterium *Anaplasma phagocytophilum*

- selectively manipulates the levels of vertebrate host proteins in the tick vector *Ixodes scapularis*. **Parasites and Vectors** 9,467.
- 442) Cabezas Cruz, A., Valdés, J.J., de la Fuente, J. 2016. Control of vector-borne infectious diseases by human immunity against α -Gal. **Expert Review of Vaccines** 15, 953-955.
- 443) Camacho, M., Hernández, J.M., Lima-Barbero, J.F., Höfle, U. 2016. Use of wildlife rehabilitation centres in pathogen surveillance: A case study in white storks (*Ciconia ciconia*). **Preventive Veterinary Medicine** 130, 106-111.
- 444) Estrada-Pena, A., De La Fuente, J. 2016. Species interactions in occurrence data for a community of tick-transmitted pathogens. **Scientific Data** 3, 160056.
- 445) El Mrini, M., Kichou, F., Kadiri, A., Berrada, J., Bouslikhane, M., Cordonnier, N., Romero, B., Gortázar, C. 2016. Animal tuberculosis due to *Mycobacterium bovis* in Eurasian wild boar from Morocco. **European Journal of Wildlife Research** 62, 479-482.
- 446) Contreras, M., de la Fuente, J. 2016. Control of *Ixodes ricinus* and *Dermacentor reticulatus* tick infestations in rabbits vaccinated with the Q38 Subolesin/Akirin chimera. **Vaccine** 34, 3010-3013.
- 447) Castellanos, P., Maroto-Morales, A., García-Álvarez, O., Garde, J.J., Mateo, R. 2016. An In vitro evaluation of biochemical processes involved in lead-induced changes on ram spermatozoa. **Reproduction in Domestic Animals** 51, 421-427.
- 448) Anel-López, L., García-Álvarez, O., Parrilla, I., Del Olmo, D., Fernández-Santos, M.R., Soler, A.J., Maroto-Morales, A., Ortiz, J.A., Alkmin, D.V., Tarantini, T., Roca, J., Martínez, E.A., Vazquez, J.M., Garde, J.J. 2016. The effect of oxidative stress on thawed bulk-sorted red deer sperm. **Reproduction in Domestic Animals** 51, 407-414.
- 449) Mage, R.G., Pinheiro, A., Lemos de Matos, A., Esteves, P.J. 2016. The immune system of lagomorphs. **Encyclopedia of Immunobiology** 1,515-525.
- 450) Cabezas-Cruz, A., Alberdi, P., Ayllón, N., Valdés, J.J., Pierce, R., Villar, M., de la Fuente, J. 2016. *Anaplasma phagocytophilum* increases the levels of histone modifying enzymes to inhibit cell apoptosis and facilitate pathogen infection in the tick vector *Ixodes scapularis*. **Epigenetics** 11, 303-319.
- 451) Jiménez-Rabadán, P., Soler, A.J., Ramón, M., García-Álvarez, O., Maroto-Morales, A., Iniesta-Cuerda, M., Fernández-Santos, M.R., Montoro, V., Pérez-Guzmán, M.D., Garde, J.J. 2016. Influence of semen collection method on sperm cryoresistance in small ruminants. **Animal Reproduction Science** 167, 103-108.
- 452) Alonso, C.A., González-Barrio, D., Tenorio, C., Ruiz-Fons, F., Torres, C. 2016. Antimicrobial resistance in faecal *Escherichia coli* isolates from farmed red deer and wild small mammals. Detection of a multiresistant *E. coli* producing extended-spectrum beta-

- lactamase. **Comparative Immunology, Microbiology and Infectious Diseases** 45, 34-39.
- 453) Álvarez-Rodríguez, M., Álvarez, M., Anel-López, L., López-Urueña, E., Manrique, P., Borragán, S., Morrell, J.M., de Paz, P., Anel, L. 2016. Effect of colloid (Androcoll-Bear, Percoll, and Pure Sperm) selection on the freezability of brown bear (*Ursus arctos*) sperm. **Theriogenology** 85, 1097-1105.
- 454) López, V., González-Barrio, D., Lima-Barbero, J.F., Ortiz, J.A., Domínguez, L., Juste, R., Garrido, J.M., Sevilla, I.A., Alberdi, P., de la Fuente, J., Gortázar, C. 2016. Oral administration of heat-inactivated *Mycobacterium bovis* reduces the response of farmed red deer to avian and bovine tuberculin. **Veterinary Immunology and Immunopathology** 172, 21-25.
- 455) de la Fuente, J., Villar, M., Cabezas-Cruz, A., Estrada-Peña, A., Ayllón, N., Alberdi, P. 2016. Tick-Host-Pathogen Interactions: Conflict and Cooperation. **PLoS Pathogens** 12, e1005488.
- 456) López, V., Villar, M., Queirós, J., Vicente, J., Mateos-Hernández, L., Díez-Delgado, I., Contreras, M., Alves, P.C., Alberdi, P., Gortázar, C., de la Fuente, J. 2016. Comparative proteomics identifies host immune system proteins affected by infection with *Mycobacterium bovis*. **PLoS Neglected Tropical Diseases** 10, e0004541.
- 457) De La Fuente, J., Gortázar, C., Juste, R. 2016. Complement component 3: A new paradigm in tuberculosis vaccine. **Expert Review of Vaccines** 15, 275-277.
- 458) Delbarco-Trillo, J., García-Álvarez, O., Soler, A.J., Tourmente, M., Garde, J.J., Roldan, E.R.S. 2016. A cost for high levels of sperm competition in rodents: Increased sperm dna fragmentation. **Proceedings of the Royal Society B: Biological Sciences** 283, 20152708.
- 459) López, V., Alberdi, P., Mera, I.G.F.D., Barasona, J.A., Vicente, J., Garrido, J.M., Torina, A., Caracappa, S., Lelli, R.C., Gortázar, C., De La Fuente, J. 2016. Evidence of co-infection with *Mycobacterium bovis* and tick-borne pathogens in a naturally infected sheep flock. **Ticks and Tick-borne Diseases** 7, 384-389.
- 460) Millán, J., Proboste, T., Fernández de Mera, I.G., Chirife, A.D., de la Fuente, J., Altet, L. 2016. Molecular detection of vector-borne pathogens in wild and domestic carnivores and their ticks at the human-wildlife interface. **Ticks and Tick-borne Diseases** 7, 284-290.
- 461) Hornok, S., Abichu, G., Takács, N., Gyuranecz, M., Farkas, R., Fernández De Mera, I.G., De La Fuente, J. 2016. Molecular screening for *Anaplasmataceae* in ticks and tsetse flies from Ethiopia. **Acta Veterinaria Hungarica** 64, 65-70.
- 462) Almazán, C., González-Álvarez, V.H., Fernández de Mera, I.G., Cabezas-Cruz, A., Rodríguez-Martínez, R., de la Fuente, J. 2016. Molecular identification and

- characterization of *Anaplasma platys* and *Ehrlichia canis* in dogs in Mexico. **Ticks and Tick-borne Diseases** 7, 276-283.
- 463) de la Fuente, J., Estrada-Peña, A., Cabezas-Cruz, A., Kocan, K.M. 2016. *Anaplasma phagocytophilum* uses common strategies for infection of ticks and vertebrate hosts. **Trends in Microbiology** 24, 173-180.
- 464) Cabezas-Cruz, A., Zweggarth, E., Vancová, M., Broniszewska, M., Grubhoffer, L., Passos, L.M.F., Ribeiro, M.F.B., Alberdi, P., de la Fuente, J. 2016. *Ehrlichia minasensis* sp. nov., isolated from the tick *Rhipicephalus microplus*. **International Journal of Systematic and Evolutionary Microbiology** 66, 1426-1430.
- 465) Schettlers, T., Bishop, R., Crampton, M., Kopáček, P., Lew-Tabor, A., Maritz-Olivier, C., Miller, R., Mosqueda, J., Patarroyo, J., Rodriguez-Valle, M., Scoles, G.A., De La Fuente, J. 2016. Cattle tick vaccine researchers join forces in CATVAC. **Parasites and Vectors** 9, 105.
- 466) Gulia-Nuss, M., Nuss, A.B., Meyer, J.M., Sonenshine, D.E., Roe, R.M., Waterhouse, R.M., Sattelle, D.B., De La Fuente, J., Ribeiro, J.M., Megy, K., Thimmapuram, J., Miller, J.R., Walenz, B.P., Koren, S., Hostetler, J.B., Thiagarajan, M., Joardar, V.S., Hannick, L.I., Bidwell, S., Hammond, M.P., Young, S., Zeng, Q., Abrudan, J.L., Almeida, F.C., Ayllón, N., Bhide, K., Bissinger, B.W., Bonzon-Kulichenko, E., Buckingham, S.D., Caffrey, D.R., Caimano, M.J., Croset, V., Driscoll, T., Gilbert, D., Gillespie, J.J., Giraldo-Calderón, G.I., Grabowski, J.M., Jiang, D., Khalil, S.M.S., Kim, D., Kocan, K.M., Koči, J., Kuhn, R.J., Kurtti, T.J., Lees, K., Lang, E.G., Kennedy, R.C., Kwon, H., Perera, R., Qi, Y., Radolf, J.D., Sakamoto, J.M., Sánchez-Gracia, A., Severo, M.S., Silverman, N., Šimo, L., Tojo, M., Tornador, C., Van Zee, J.P., Vázquez, J., Vieira, F.G., Villar, M., Wespiser, A.R., Yang, Y., Zhu, J., Arensburger, P., Pietrantonio, P.V., Barker, S.C., Shao, R., Zdobnov, E.M., Hauser, F., Grimmelikhuijzen, C.J.P., Park, Y., Rozas, J., Benton, R., Pedra, J.H.F., Nelson, D.R., Unger, M.F., Tubio, J.M.C., Tu, Z., Robertson, H.M., Shumway, M., Sutton, G., Wortman, J.R., Lawson, D., Wikel, S.K., Nene, V.M., Fraser, C.M., Collins, F.H., Birren, B., Nelson, K.E., Caler, E., Hill, C.A. 2016. Genomic insights into the *Ixodes scapularis* tick vector of Lyme disease. **Nature Communications** 7, 10507.
- 467) Carrasco-García, R., Barasona, J.A., Gortazar, C., Montoro, V., Sanchez-Vizcaino, J.M., Vicente, J. 2016. Wildlife and livestock use of extensive farm resources in South Central Spain: implications for disease transmission. **European Journal of Wildlife Research** 62, 65-78.
- 468) Cowie, C.E., Hutchings, M.R., Barasona, J.A., Gortázar, C., Vicente, J., White, P.C.L. 2016. Interactions between four species in a complex wildlife: livestock disease community: implications for *Mycobacterium bovis* maintenance and transmission. **European Journal of Wildlife Research** 62, 51-64.
- 469) Nol, P., Robbe-Austerman, S., Rhyan, J.C., McCollum, M.P., Triantis, J.M., Beltrán-Beck, B., Salman, M.D. 2016. Determining the persistence of *Mycobacterium bovis* bacille Calmette-Guerin Danish in select tissues of orally vaccinated feral swine (*Sus scrofa* ssp.). **Research in Veterinary Science** 104, 50-52.

- 470) Doncel-Perez, E., Mateos-Hernandez, L., Pareja, E., Garcia-Forcada, A., Villar, M., Tobes, R., Ganuza, F.R., Del Sol, V.V., Ramos, R., De Mera, I.G.F., De La Fuente, J. 2016. Expression of early growth response gene-2 and regulated cytokines correlates with recovery from guillain-barre syndrome. **Journal of Immunology** 196, 1102-1107.
- 471) Pinheiro, A., Neves, F., Lemos de Matos, A., Abrantes, J., van derLoo, W., Mage, R., Esteves, P.J. 2016. An overview of the lagomorph immune system and its genetic diversity. **Immunogenetics** 68, 83-107.
- 472) Klionsky, D.J., et al. 2016. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). **Autophagy** 12, 1-222.
- 473) Del Olmo, E., García-Álvarez, O., Maroto-Morales, A., Ramón, M., Jiménez-Rabadán, P., Iniesta-Cuerda, M., Anel-Lopez, L., Martinez-Pastor, F., Soler, A.J., Garde, J.J., Fernández-Santos, M.R. 2016. Estrous sheep serum enables in vitro capacitation of ram spermatozoa while preventing caspase activation. **Theriogenology** 85, 351-360.
- 474) Rodríguez-Prieto, V., Kukielka, D., Rivera-Arroyo, B., Martínez-López, B., de las Heras, A.I., Sánchez-Vizcaíno, J.M., Vicente, J. 2016. Evidence of shared bovine viral diarrhoea infections between red deer and extensively raised cattle in south-central Spain. **BMC Veterinary Research** 12, 11.
- 475) Martínez-Rodríguez, C., Alvarez, M., López-Urueña, E., Gomes-Alves, S., Anel-López, L., Tizado, J.E., Anel, L., De Paz, P. 2016. Head morphology of ram spermatozoa is associated with their ability to migrate in vitro and correlates with fertility. **Reproduction, Fertility and Development** 28, 1825-1837.
- 476) Gamino, V., Escribano-Romero, E., Blázquez, A.-B., Gutiérrez-Guzmán, A.-V., Martín-Acebes, M.-Á., Saiz, J.-C., Höfle, U. 2016. Experimental North American West Nile virus infection in the red-legged partridge (*Alectoris rufa*). **Veterinary Pathology** 53, 585-593.
- 477) Gómez, P., Lozano, C., Camacho, M.C., Lima-Barbero, J.-F., Hernández, J.-M., Zarazaga, M., Höfle, U., Torres, C. 2016. Detection of MRSA ST3061-t843-mecC and ST398-t011-mecA in white stork nestlings exposed to human residues. **Journal of Antimicrobial Chemotherapy** 71, 53-57.
- 478) Cabal, A., Porrero, M.C., De La Cruz, M.L., Saez, J.L., Barcena, C., Lopez, G., Gortazar, C., Dominguez, L., Alvarez, J. 2016. Molecular characterization and antimicrobial resistance of STEC strains isolated from healthy cattle in 2011 and 2013 in Spain. **Epidemiology and Infection** 144, 2956-2966.
- 479) Mateos-Hernández, L., Villar, M., Doncel-Pérez, E., Trevisan-Herraz, M., García-Forcada, Á., Ganuza, F.R., Vázquez, J., de la Fuente, J. 2016. Quantitative proteomics reveals Piccolo as a candidate serological correlate of recovery from Guillain-Barré syndrome. **Oncotarget** 7, 74582-74591.

- 480) Cabal, A., García-Castillo, M., Cantón, R., Gortázar, C., Domínguez, L., Álvarez, J. 2016. Prevalence of *Escherichia coli* virulence genes in patients with diarrhea and a subpopulation of healthy volunteers in Madrid, Spain. **Frontiers in Microbiology** 7, 641.
- 481) Queirós, J., Vicente, J., Alves, P.C., de la Fuente, J., Gortazar, C. 2016. Tuberculosis, genetic diversity and fitness in the red deer, *Cervus elaphus*. **Infection, Genetics and Evolution** 43, 203-212.
- 482) Alberdi, P., Mansfield, K.L., Manzano-Román, R., Cook, C., Ayllón, N., Villar, M., Johnson, N., Fooks, A.R., de la Fuente, J. 2016. Tissue-specific signatures in the transcriptional response to *Anaplasma phagocytophilum* infection of *Ixodes scapularis* and *Ixodes ricinus* tick cell lines. **Frontiers in Cellular and Infection Microbiology** 6, 20.
- 483) Olivero, J., Ferri, F., Acevedo, P., Lobo, J.M., Fa, J.E., Farfán, M.Á., Romero, D., Real, R., Camico, A., Cardozo, J., Cavi, C.A., Cuiche, F., Cuiche, V., Cuiche, Y., Evaristo, G., Evaristo, R., Ventura, B., Ventura, D., Camico, S.V.J., Camico, L., Camico, M., Camico, M., Camico, R., Camico, T.R.M., Nelson, D.C., García, F., García, M., Guaca, M., Guarriello, A., López, A., López, L., Óscar, L.C., Carlos, E.M.G., Dollas, G., García, E., García, J., García, P., García, Y., Arcenio, M., Mutica, T., Pesqueira, M., Carolino, S., Sandoval, A.G., Sandoval, C., Sandoval, C., Sandoval, E., Sandoval, L., Sandoval, P.L., Sandoval, P., Sandoval, R., Sandoval, S., Melguero, M.S.M., Pereira, C., Pereira, E., García, O.P.M.F., García, S., Bernabé, J.S.E., Bernabé, M.E., Bernabé, P., Bernabé, U., Cheila, C.M., De Churuaidare, M., Churuo, H., García, M., Garrido, M., José A., M.R.C., Martina, I., Mure, A., Mure, F.M., Yumileth, Y., Yuriyuri, K., Yuriyuri, J., The Amazonian communities of Cascaradura, Ninal Community, Curimacare Community, Chapazon Community, Solano Community. 2016. Using indigenous knowledge to link hyper-temporal land cover mapping with land use in the Venezuelan Amazon: "the forest pulse". **Revista de Biología Tropical** 64, 1661-1682.
- 484) Estrada-Peña, A., de la Fuente, J., Cabezas-Cruz, A. 2016. A comparison of the performance of regression models of *Amblyomma americanum* (L.) (*Ixodidae*) using life cycle or landscape data from administrative divisions. **Ticks and Tick-borne Diseases** 7, 624-630.
- 485) Klionsky, D.J., *et al.* 2016. Erratum to: Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition) *Autophagy*, 12, 1, 1-222. **Autophagy** 12, 443.
- 486) González-Barrio, D., Fernández-de-Mera, I.G., Ortiz, J.A., Queirós, J., Ruiz-Fons, F. 2015. Long-term dynamics of *Coxiella burnetii* in farmed red deer (*Cervus elaphus*). **Frontiers in Veterinary Science** 2, 74.
- 487) Carpio, A.J., Oteros, J., Vicente, J., Tortosa, F.S., Guerrero-Casado, J. 2015. Factors affecting red-legged partridge *Alectoris rufa* abundance on big-game hunting estates: Implications for management and conservation. **Ardeola** 62, 283-297.

- 488) Villar, M., Ayllón, N., Alberdi, P., Moreno, A., Moreno, M., Tobes, R., Mateos-Hernández, L., Weisheit, S., Bell-Sakyi, L., La Fuente, J. 2015. Integrated metabolomics, transcriptomics and proteomics identifies metabolic pathways affected by *Anaplasma phagocytophilum* infection in tick cells. **Molecular and Cellular Proteomics** 14, 3154-3172.
- 489) de la Fuente, J., Díez-Delgado, I., Contreras, M., Vicente, J., Cabezas-Cruz, A., Tobes, R., Manrique, M., López, V., Romero, B., Bezos, J., Dominguez, L., Sevilla, I.A., Garrido, J.M., Juste, R., Madico, G., Jones-López, E., Gortazar, C. 2015. Comparative genomics of field isolates of *Mycobacterium bovis* and *M. caprae* provides evidence for possible correlates with bacterial viability and virulence. **PLoS Neglected Tropical Diseases** 9, e0004232.
- 490) Weisheit, S., Villar, M., Tykalová, H., Popara, M., Loecherbach, J., Watson, M., Růžek, D., Grubhoffer, L., De La Fuente, J., Fazakerley, J.K., Bell-Sakyi, L. 2015. *Ixodes scapularis* and *Ixodes ricinus* tick cell lines respond to infection with tick-borne encephalitis virus: Transcriptomic and proteomic analysis. **Parasites and Vectors** 8, 599.
- 491) Kocan, K.M., De La Fuente, J., Coburn, L.A. 2015. Insights into the development of *Ixodes scapularis*: A resource for research on a medically important tick species. **Parasites and Vectors** 8, 1185.
- 492) Meier, R.K., Ruiz-Fons, F., Ryser-Degiorgis, M.-P. 2015. A picture of trends in Aujeszky's disease virus exposure in wild boar in the Swiss and European contexts. **BMC Veterinary Research** 11, 277.
- 493) Santos, N., Santos, C., Valente, T., Gortázar, C., Almeida, V., Correia-Neves, M. 2015. Widespread environmental contamination with *Mycobacterium tuberculosis* complex revealed by a molecular detection protocol. **PLoS ONE** 10, e0142079.
- 494) Santos, N., Almeida, V., Gortázar, C., Correia-Neves, M. 2015. Patterns of *Mycobacterium tuberculosis*-complex excretion and characterization of super-shedders in naturally-infected wild boar and red deer. **Veterinary Research** 46, 270.
- 495) Talavera, S., Muñoz-Muñoz, F., Durán, M., Verdún, M., Soler-Membrives, A., Oleaga, A., Arenas, A., Ruiz-Fons, F., Estrada, R., Pagès, N. 2015. Culicoides species communities associated with wild ruminant ecosystems in Spain: Tracking the way to determine potential bridge vectors for arboviruses. **PLoS ONE** 10, e0141667.
- 496) Bezos, J., Casal, C., Díez-Delgado, I., Romero, B., Liandris, E., Álvarez, J., Sevilla, I.A., de Juan, L., Domínguez, L., Gortázar, C. 2015. Goats challenged with different members of the *Mycobacterium tuberculosis* complex display different clinical pictures. **Veterinary Immunology and Immunopathology** 167, 185-189.
- 497) De La Fuente, J., Estrada-Peña, A., Cabezas-Cruz, A., Brey, R. 2015. Flying ticks: Anciently evolved associations that constitute a risk of infectious disease spread. **Parasites and Vectors** 8, 538.

- 498) Pintus, E., Ros-Santaella, J.L., Garde, J.J. 2015. Beyond testis size: Links between spermatogenesis and sperm traits in a seasonal breeding mammal. **PLoS ONE** 10, e0139240.
- 499) Cabezas-Cruz, A., Mateos-Hernández, L., Pérez-Cruz, M., Valdés, J.J., Mera, I.G.F.D., Villar, M., de la Fuente, J. 2015. Regulation of the Immune Response to α -Gal and Vector-borne Diseases. **Trends in Parasitology** 31, 470-476.
- 500) Pinheiro-Silva, R., Borges, L., Coelho, L.P., Cabezas-Cruz, A., Valdés, J.J., Do Rosário, V., De La Fuente, J., Domingos, A. 2015. Gene expression changes in the salivary glands of *Anopheles coluzzii* elicited by *Plasmodium berghei* infection. **Parasites and Vectors** 8, 485.
- 501) Hornok, S., Estrada-Peña, A., Kontschán, J., Plantard, O., Kunz, B., Mihalca, A.D., Thabab, A., Tomanović, S., Burazerović, J., Takács, N., Görföl, T., Estók, P., Tu, V.T., Szoke, K., De Mera, I.G.F., De La Fuente, J., Takahashi, M., Yamauchi, T., Takano, A. 2015. High degree of mitochondrial gene heterogeneity in the bat tick species *Ixodes vespertilionis*, *I. ariadnae* and *I. simplex* from Eurasia. **Parasites and Vectors** 8, 457.
- 502) Villar, M., Ayllón, N., Kocan, K.M., Bonzón-Kulichenko, E., Alberdi, P., Blouin, E.F., Weisheit, S., Mateos-Hernández, L., Cabezas-Cruz, A., Bell-Sakyi, L., Vancová, M., Bílý, T., Meyer, D.F., Sterba, J., Contreras, M., Rudenko, N., Grubhoffer, L., Vázquez, J., De La Fuente, J., Brayton, K.A. 2015. Identification and characterization of *Anaplasma phagocytophilum* proteins involved in infection of the tick vector, *Ixodes scapularis*. **PLoS ONE** 10, e0137237.
- 503) Contreras, M., Moreno-Cid, J.A., Domingos, A., Canales, M., Díez-Delgado, I., Pérez de la Lastra, J.M., Sánchez, E., Merino, O., Zavala, R.L., Ayllón, N., Boadella, M., Villar, M., Gortázar, C., de la Fuente, J. 2015. Bacterial membranes enhance the immunogenicity and protective capacity of the surface exposed tick Subolesin-*Anaplasma marginale* MSP1a chimeric antigen. **Ticks and Tick-borne Diseases** 6, 820-828.
- 504) Alberdi, P., Ayllón, N., Cabezas-Cruz, A., Bell-Sakyi, L., Zwegarth, E., Stuen, S., de la Fuente, J. 2015. Infection of *Ixodes* spp. tick cells with different *Anaplasma phagocytophilum* isolates induces the inhibition of apoptotic cell death. **Ticks and Tick-borne Diseases** 6, 758-767.
- 505) Jiménez-Rabadán, P., García-Álvarez, O., Vidal, A., Maroto-Morales, A., Iniesta-Cuerda, M., Ramón, M., del Olmo, E., Fernández-Santos, R., Garde, J.J., Soler, A.J. 2015. Effects of vitrification on ram spermatozoa using free-egg yolk extenders. **Cryobiology** 71, 85-90.
- 506) Almeida, T., Lopes, A.M., Magalhães, M.J., Neves, F., Pinheiro, A., Gonçalves, D., Leitão, M., Esteves, P.J., Abrantes, J. 2015. Tracking the evolution of the G1/RHDVb recombinant strains introduced from the Iberian Peninsula to the Azores islands, Portugal. **Infection, Genetics and Evolution** 34, 307-313.

- 507) Ayllón, N., Naranjo, V., Hajduek, O., Villar, M., Galindo, R.C., Kocan, K.M., Alberdi, P., Šíma, R., Cabezas-Cruz, A., Rückert, C., Bell-Sakyi, L., Kazimírová, M., Havlíková, S., Klempa, B., Kopáček, P., De La Fuente, J. 2015. Nuclease Tudor-SN is involved in tick dsRNA Mediated RNA interference and feeding but not in defense against flaviviral or *Anaplasma phagocytophilum* rickettsia infection. **PLoS ONE** 10, e0133038.
- 508) Boadella, M. 2015. Hepatitis E in wild ungulates: A review. **Small Ruminant Research** 128, 64-71.
- 509) Gortázar, C., Che Amat, A., O'Brien, D.J. 2015. Open questions and recent advances in the control of a multi-host infectious disease: Animal tuberculosis. **Mammal Review** 45, 160-175.
- 510) Gómez, P., Lozano, C., González-Barrio, D., Zarazaga, M., Ruiz-Fons, F., Torres, C. 2015. High prevalence of methicillin-resistant *Staphylococcus aureus* (MRSA) carrying the *mecC* gene in a semi-extensive red deer (*Cervus elaphus hispanicus*) farm in Southern Spain. **Veterinary Microbiology** 177, 326-331.
- 511) Proboste, T., Kalema-Zikusoka, G., Altet, L., Solano-Gallego, L., Fernández De Mera, I.G., Chirife, A.D., Muro, J., Bach, E., Piazza, A., Cevidanes, A., Blanda, V., Mugisha, L., De La Fuente, J., Caracappa, S., Millán, J. 2015. Infection and exposure to vector-borne pathogens in rural dogs and their ticks, Uganda. **Parasites and Vectors** 8, 306.
- 512) Estrada-Peña, A., De La Fuente, J., Ostfeld, R.S., Cabezas-Cruz, A. 2018. Interactions between tick and transmitted pathogens evolved to minimise competition through nested and coherent networks. **Scientific Reports** 5, 10361.
- 513) Lozano, C., González-Barrio, D., García, J.T., Ceballos, S., Olea, P.P., Ruiz-Fons, F., Torres, C. 2015. Detection of vancomycin-resistant *Enterococcus faecalis* ST6-vanB2 and *E. faecium* ST915-vanA in faecal samples of wild *Rattus rattus* in Spain. **Veterinary Microbiology** 177, 68-174.
- 514) Romero-Palomo, F., Risalde, M.A., Molina, V., Lauzi, S., Bautista, M.J., Gómez-Villamandos, J.C. 2015. Characterization of thymus atrophy in calves with subclinical BVD challenged with BHV-1. **Veterinary Microbiology** 177, 32-42.
- 515) Estrada-Peña, A., De La Fuente, J., Latapia, T., Ortega, C. 2015. The impact of climate trends on a tick affecting public health: A retrospective modeling approach for *Hyalomma marginatum* (Ixodidae). **PLoS ONE** 10, e0125760.
- 516) De La Fuente, J., Kocan, K.M., Contreras, M. 2015. Prevention and control strategies for ticks and pathogen transmission. **OIE Revue Scientifique et Technique** 34, 249-264.
- 517) Cabezas-Cruz, A., de la Fuente, J. 2015. *Anaplasma marginale* major surface protein 1a: A marker of strain diversity with implications for control of bovine anaplasmosis. **Ticks and Tick-borne Diseases** 6, 205-210.

- 518) Ayllón, N., Villar, M., Galindo, R.C., Kocan, K.M., Šíma, R., López, J.A., Vázquez, J., Alberdi, P., Cabezas-Cruz, A., Kopáček, P., de la Fuente, J. 2015. Systems Biology of Tissue-Specific Response to *Anaplasma phagocytophilum* Reveals Differentiated Apoptosis in the Tick Vector *Ixodes scapularis*. **PLoS Genetics** 11, e1005120.
- 519) Salces-Ortiz, J., Ramón, M., González, C., Dolores Pérez-Guzmán, M., Julián Garde, J., García-Álvarez, O., Maroto-Morales, A., Calvo, J.H., Magdalena Serrano, M. 2015. Differences in the ovine HSP90AA1 gene expression rates caused by two linked polymorphisms at its promoter affect rams sperm DNA fragmentation under environmental heat stress conditions. **PLoS ONE** 10, e0116360.
- 520) Castellanos, P., del Olmo, E., Fernández-Santos, M.R., Rodríguez-Estival, J., Garde, J.J., Mateo, R. 2015. Increased chromatin fragmentation and reduced acrosome integrity in spermatozoa of red deer from lead polluted sites. **Science of the Total Environment** 505, 32-38.
- 521) Pais-Costa, A.J., Acevedo, P., Marques, J.C., Martínez-Haro, M. 2015. Addressing the recovery of feeding rates in post-exposure feeding bioassays: *Cyathura carinata* as a case study. **Environmental Research** 137, 222-225.
- 522) Hornok, S., Kontschán, J., Estrada-Peña, A., De Mera, I.G.F., Tomanović, S., De La Fuente, J. 2015. Contributions to the morphology and phylogeny of the newly discovered bat tick species, *Ixodes ariadnae* in comparison with *I. vespertilionis* and *I. simplex*. **Parasites and Vectors** 8, 47.
- 523) Gortazar, C., Díez-Delgado, I., Barasona, J.A., Vicente, J., De La Fuente, J., Boadella, M. 2015. The wild side of disease control at the wildlife-livestock-human interface: A review. **Frontiers in Veterinary Science** 1, 27.
- 524) Popara, M., Villar, M., de la Fuente, J. 2015. Proteomics characterization of tick-host-pathogen interactions. **Methods in molecular biology (Clifton, N.J.)** 1247, 513-527.
- 525) Anel-López, L., García-Álvarez, O., Maroto-Morales, A., Iniesta-Cuerda, M., Ramón, M., Soler, A.J., Fernández-Santos, M.R., Garde, J.J. 2015. Reduced glutathione addition improves both the kinematics and physiological quality of post-thawed red deer sperm. **Animal Reproduction Science** 162, 73-79.
- 526) Del Olmo, E., Bisbal, A., García-Álvarez, O., Maroto-Morales, A., Ramón, M., Jiménez-Rabadán, P., Anel-López, L., Soler, A.J., Garde, J.J., Fernández-Santos, M.R. 2015. Free-radical production after post-thaw incubation of ram spermatozoa is related to decreased in vivo fertility. **Reproduction, Fertility and Development** 27, 1187-1196.
- 527) López-Urueña, E., Alvarez, M., Gomes-Alves, S., Anel-López, L., Martínez-Rodríguez, C., Manrique, P., Borrigan, S., Anel, L., de Paz, P. 2015. Optimization of conditions for long-term prefreezing storage of brown bear sperm before cryopreservation. **Theriogenology** 84, 1161-1171.

- 528) García-Álvarez, O., Maroto-Morales, A., Jiménez-Rabadán, P., Ramón, M., del Olmo, E., Iniesta-Cuerda, M., Anel-López, L., Fernández-Santos, M.R., Garde, J.J., Soler, A.J. 2015. Effect of different media additives on capacitation of frozen-thawed ramspermatozoa as a potential replacement for estrous sheep serum. *Theriogenology* 84, 948-955.
- 529) Martínez-Rodríguez, C., Álvarez, M., López-Uruenã, E., Gomes-Alves, S., Anel-Lopez, L., Chamorro, C.A., Anel, L., De Paz, P. 2015. Ram spermatozoa migrating through artificial mucus in vitro have reduced mitochondrial membrane potential but retain their viability. *Reproduction, Fertility and Development* 27, 852-864.
- 530) de La Fuente, J., Villar, M., Contreras, M., Moreno-Cid, J.A., Merino, O., Pérez de la Lastra, J.M., de la Fuente, G., Galindo, R.C. 2015. Prospects for vaccination against the ticks of pets and the potential impact on pathogen transmission. *Veterinary Parasitology* 208, 26-29.
- 531) Ros-Santaella, J.L., Pintus, E., Garde, J.J. 2015. Intramale variation in sperm size: Functional significance in a polygynous mammal. *PeerJ* 2015, e1478.
- 532) González-Barrio, D., Martín-Hernando, M.P., Ruiz-Fons, F. 2015. Shedding patterns of endemic Eurasian wild boar (*Sus scrofa*) pathogens. *Research in Veterinary Science* 102, 2944.
- 533) Nugent, G., Gortazar, C., Knowles, G. 2015. The epidemiology of *Mycobacterium bovis* in wild deer and feral pigs and their roles in the establishment and spread of bovine tuberculosis in New Zealand wildlife. *New Zealand Veterinary Journal* 63, 54-67.
- 534) Cowie, C.E., Gortázar, C., White, P.C.L., Hutchings, M.R., Vicente, J. 2015. Stakeholder opinions on the practicality of management interventions to control bovine tuberculosis. *Veterinary Journal* 204, 179-185.
- 535) Maroto-Morales, A., Ramón, M., García-Álvarez, O., Montoro, V., Soler, A.J., Fernández-Santos, M.R., Roldan, E.R.S., Pérez-Guzmán, M.D., Garde, J.J. 2015. Sperm head phenotype and male fertility in ram semen. *Theriogenology* 84, 1536-1541.
- 536) Verhagen, J.H., Höfle, U., van Amerongen, G., van de Bildt, M., Majoor, F., Fouchier, R.A.M., Kuiken, T. 2015. Long-term effect of serial infections with H13 and H16 low-pathogenic Avian influenza viruses in black-headed gulls. *Journal of Virology* 89, 11507-11522.
- 537) De La Fuente, J., Contreras, M. 2015. Tick vaccines: Current status and future directions. *Expert Review of Vaccines* 14, 1367-1376.
- 538) Pinheiro, A., Almeida, T., Esteves, P.J. 2015. Survey of genetic diversity of IgG in wild and domestic rabbits. *International Journal of Immunogenetics* 42, 364-367.

- 539) Anel-López, L., Martínez-Rodríguez, C., Soler, A.J., Fernández-Santos, M.R., Garde, J.J., Morrell, J.M. 2015. Use of Androcoll-S after thawing improves the quality of electroejaculated and epididymal sperm samples from red deer. **Animal Reproduction Science** 158, 68-74.
- 540) Beerli, O., Blatter, S., Boadella, M., Schöning, J., Schmitt, S., Ryser-Degiorgis, M.-P. 2015. Towards harmonised procedures in wildlife epidemiological investigations: A serosurvey of infection with *Mycobacterium bovis* and closely related agents in wild boar (*Sus scrofa*) in Switzerland. **Veterinary Journal** 203, 131-133.
- 541) Mulero-Pázmány, M., Barasona, J.A., Acevedo, P., Vicente, J., Negro, J.J. 2015. Unmanned Aircraft Systems complement biologging in spatial ecology studies. **Ecology and Evolution** 5, 4808-4818.
- 542) González-Barrio, D., Ávila, A.L.V., Boadella, M., Beltrán-Beck, B., Barasona, J.Á., Santos, J.P.V., Queirós, J., García-Pérez, A.L., Barral, M., Ruiz-Fons, F. 2015. Host and environmental factors modulate the exposure of free- ranging and farmed red deer (*Cervus elaphus*) to *Coxiella burnetii*. **Applied and Environmental Microbiology** 81, 6223-6231.
- 543) Acevedo, P., Melo-Ferreira, J., Farelo, L., Beltran-Beck, B., Real, R., Campos, R., Alves, P.C. 2015. Range dynamics driven by Quaternary climate oscillations explain the distribution of introgressed mtDNA of *Lepus timidus* origin in hares from the Iberian Peninsula. **Journal of Biogeography** 42, 1727-1735.
- 544) Queirós, J., Godinho, R., Lopes, S., Gortazar, C., de la Fuente, J., Alves, P.C. 2015. Effect of microsatellite selection on individual and population genetic inferences: An empirical study using cross-specific and species-specific amplifications. **Molecular Ecology Resources** 15, 747-760.
- 545) Cabal, A., Geue, L., Gómez-Barrero, S., Barth, S., Bárcena, C., Hamm, K., Porrero, M.C., Valverde, A., Cantón, R., Menge, C., Gortázar, C., Domínguez, L., Álvarez, J. 2015. Detection of virulence-associated genes characteristic of intestinal *Escherichia coli* pathotypes, including the enterohemorrhagic/enteroaggregative O104: H4, in bovines from Germany and Spain. **Microbiology and Immunology** 59, 433-442.
- 546) Mansfield, K.L., Morales, A.B., Johnson, N., Ayllón, N., Höfle, U., Alberdi, P., Fernández de Mera, I.G., Marín, J.F.G., Gortázar, C., de la Fuente, J., Fooks, A.R. 2015. Identification and characterization of a novel tick-borne flavivirus subtype in goats (*Capra hircus*) in Spain. **Journal of General Virology** 96, 1676-1681.
- 547) Cabal, A., Pereira, M.J., Aguiar, L.M.S., Domínguez, L., Fonseca, C., Álvarez, J., Drexler, J.F., Gortázar, C. 2015. Direct detection of *Escherichia coli* virulence genes by real-time PCR in fecal samples from bats in Brazil. **Journal of Wildlife Diseases** 51, 942-945.
- 548) Antunes, S., Merino, O., Lérias, J., Domingues, N., Mosqueda, J., de la Fuente, J., Domingos, A. 2015. Artificial feeding of *Rhipicephalus microplus* female ticks with anti

- calreticulin serum do not influence tick and *Babesia bigemina* acquisition. **Ticks and Tick-borne Diseases** 6, 47-55.
- 549) González-Barrio, D., Almería, S., Caro, M.R., Salinas, J., Ortiz, J.A., Gortázar, C., Ruiz-Fons, F. 2015. *Coxiella burnetii* Shedding by Farmed Red Deer (*Cervus elaphus*). **Transboundary and Emerging Diseases** 62, 572-574.
- 550) Che' Amat, A., González-Barrio, D., Ortiz, J.A., Díez-Delgado, I., Boadella, M., Barasona, J.A., Bezos, J., Romero, B., Armenteros, J.A., Lyashchenko, K.P., Venteo, A., Rueda, P., Gortázar, C. 2015. Testing Eurasian wild boar piglets for serum antibodies against *Mycobacterium bovis*. **Preventive Veterinary Medicine** 121, 93-98.
- 551) De La Fuente, J., Díez-Delgado, I., Contreras, M., Vicente, J., Cabezas-Cruz, A., Manrique, M., Tobes, R., López, V., Romero, B., Domínguez, L., Garrido, J.M., Juste, R., Gortázar, C. 2015. Complete genome sequences of field isolates of *Mycobacterium bovis* and *Mycobacterium caprae*. **Genome Announcements** 3, e00247-15.
- 552) Lis, K., Fernández de Mera, I.G., Popara, M., Cabezas-Cruz, A., Ayllón, N., Zwegarth, E., Passos, L.M.F., Broniszewska, M., Villar, M., Kocan, K.M., Ribeiro, M.F.B., Pfister, K., de la Fuente, J. 2015. Molecular and immunological characterization of three strains of *Anaplasma marginale* grown in cultured tick cells. **Ticks and Tick-borne Diseases** 6, 522-529.
- 553) TeneFossog, B., Ayala, D., Acevedo, P., Kengne, P., Ngomo Abeso Mebuy, I., Makanga, B., Magnus, J., Awono-Ambene, P., Njiokou, F., Pombi, M., Antonio-Nkondjio, C., Paupy, C., Besansky, N.J., Costantini, C. 2015. Habitat segregation and ecological character displacement in cryptic African malaria mosquitoes. **Evolutionary Applications** 8, 326-345.
- 554) Baêta, B.A., Ribeiro, C.C.D.U., Teixeira, R.C., Cabezas-Cruz, A., Passos, L.M.F., Zwegarth, E., Fonseca, A.H. 2015. Characterization of two strains of *Anaplasma marginale* isolated from cattle in Rio de Janeiro, Brazil, after propagation in tick cell culture. **Ticks and Tick-borne Diseases** 6, 141-145.
- 555) Cabezas-Cruz, A., Zwegarth, E., Broniszewska, M., Passos, L.M.F., Barbosa Ribeiro, M.F., Manrique, M., Tobes, R., de la Fuente, J. 2015. Complete genome sequence of *Ehrlichia mineirensis*, a novel organism closely related to *Ehrlichia canis* with a new host association. **Genome Announcements** 3, e01450-14.
- 556) Lavazza, A., Cavadini, P., Barbieri, I., Tizzani, P., Pinheiro, A., Abrantes, J., Esteves, P.J., Grilli, G., Gioia, E., Zanoni, M., Meneguz, P.G., Guitton, J.-S., Marchandeau, S., Chiari, M., Capucci, L. 2015. Field and experimental data indicate that the eastern cottontail (*Sylvilagus floridanus*) is susceptible to infection with European brown hare syndrome (EBHS) virus and not with rabbit haemorrhagic disease (RHD) virus. **Veterinary Research** 46, 13.

- 557) Barasona, J.A., Mulero-Pázmány, M., Acevedo, P., Negro, J.J., Torres, M.J., Gortázar, C., Vicente, J. 2014. Unmanned aircraft systems for studying spatial abundance of ungulates: Relevance to spatial epidemiology. **PLoS ONE** 9, 0115608.
- 558) Barasona, J.A., Latham, M.C., Acevedo, P., Armenteros, J.A., Latham, A.D.M., Gortazar, C., Carro, F., Soriguer, R.C., Vicente, J. 2014. Spatiotemporal interactions between wild boar and cattle: Implications for cross-species disease transmission. **Veterinary Research** 45, 122.
- 559) Severo, M.S., Pedra, J.H.F., Ayllón, N., Kocan, K.M., De La Fuente, J. 2014. *Anaplasma*. **Molecular Medical Microbiology: Second Edition** 3, 2033-2042.
- 560) Domingos, A., Antunes, S., Villar, M., De La Fuente, J. 2014. Functional genomics of tick vectors challenged with the cattle parasite *Babesia bigemina*. **Veterinary Infection Biology: Molecular Diagnostics and High-Throughput Strategies**, 475-489.
- 561) Pinheiro, A., Melo-Ferreira, J., Abrantes, J., Martinelli, N., Lavazza, A., Alves, P.C., Gortázar, C., Esteves, P.J. 2014. Sequencing of *Sylvilagus* VDJ genes reveals a new VHa allelic lineage and shows that ancient VH lineages were retained differently in leporids. **Immunogenetics** 66, 719-726.
- 562) Ros-Santaella, J.L., Domínguez-Rebolledo, Á.E., Garde, J.J. 2014. Sperm flagellum volume determines freezability in red deer spermatozoa. **PLoS ONE** 9, e112382.
- 563) De Sousa-Pereira, P., Abrantes, J., Pinheiro, A., Colaço, B., Vitorino, R., Esteves, P.J. 2014. Evolution of C, D and S-type cystatins in mammals: An extensive gene duplication in primates. **PLoS ONE** 9, e109050.
- 564) Lopes, A.M., Marques, S., Silva, E., Magalhães, M.J., Pinheiro, A., Alves, P.C., Le Pendu, J., Esteves, P.J., Thompson, G., Abrantes, J. 2014. Detection of RHDV strains in the Iberian hare (*Lepus granatensis*): Earliest evidence of rabbit lagovirus cross-species infection. **Veterinary Research** 45, 94.
- 565) Hornok, S., Mester, A., Takács, N., Fernández De Mera, I.G., De La Fuente, J., Farkas, R. 2014. Re-emergence of bovine piroplasmiasis in Hungary: Has the etiological role of *Babesia divergens* been taken over by *B. major* and *Theileria buffeli*? **Parasites and Vectors** 7, 434.
- 566) Pinheiro, A., Woof, J.M., Almeida, T., Abrantes, J., Alves, P.C., Gortázar, C., Esteves, P.J. 2014. Leporid immunoglobulin G shows evidence of strong selective pressure on the hinge and CH3 domains. **Open Biology** 4, 140088.
- 567) Jouglin, M., Fernández-De-Mera, I.G., De La Cotte, N., Ruiz-Fons, F., Gortázar, C., Moreau, E., Bastian, S., De La Fuente, J., Malandrin, L. 2014. Isolation and characterization of *Babesia pecorum* sp. nov. from farmed red deer (*Cervus elaphus*). **Veterinary Research** 45, 78.

- 568) Estrada-Peña, A., Carreón, D., Almazán, C., De La Fuente, J. 2014. Modeling the impact of climate and landscape on the efficacy of white tailed deer vaccination for cattle tick control in northeastern Mexico. **PLoS ONE** 9, e102905.
- 569) Esteves, P.J., Lopes, A.M., Magalhães, M.J., Pinheiro, A., Gonçalves, D., Abrantes, J. 2014. Rabbit hemorrhagic disease virus detected in Pico, Azores, Portugal, revealed a unique endemic strain with more than 17 years of independent evolution. **Viruses** 6, 2698-2707.
- 570) Estrada-Peña, A., Estrada-Sánchez, A., De La Fuente, J. 2014. A global set of Fourier-transformed remotely sensed covariates for the description of abiotic niche in epidemiological studies of tick vector species. **Parasites and Vectors** 7, 302.
- 571) Cabezas-Cruz, A., Valdés, J.J. 2014. Are ticks venomous animals? **Frontiers in Zoology** 11, 47.
- 572) Lorca-Oró, C., López-Olvera, J.R., Ruiz-Fons, F., Acevedo, P., García-Bocanegra, I., Oleaga, Á., Gortázar, C., Pujols, J. 2014. Long-term dynamics of Bluetongue virus in wild ruminants: Relationship with outbreaks in livestock in Spain, 2006-2011. **PLoS ONE** 9, e100027.
- 573) Villar, M., Popara, M., Mangold, A.J., de la Fuente, J. 2014. Comparative proteomics for the characterization of the most relevant *Amblyomma* tick species as vectors of zoonotic pathogens worldwide. **Journal of Proteomics** 105, 204-216.
- 574) Shakya, M., Kumar, B., Nagar, G., De la Fuente, J., Ghosh, S. 2014. Subolesin: A candidate vaccine antigen for the control of cattle tick infestations in Indian situation. **Vaccine** 32, 3488-3494.
- 575) Beltrán-Beck, B., De La Fuente, J., Garrido, J.M., Aranaz, A., Sevilla, I., Villar, M., Boadella, M., Galindo, R.C., Pérez De La Lastra, J.M., Moreno-Cid, J.A., Fernández De Mera, I.G., Alberdi, P., Santos, G., Ballesteros, C., Lyashchenko, K.P., Minguíjón, E., Romero, B., De Juan, L., Domínguez, L., Juste, R., Gortazar, C. 2014. Oral vaccination with heat inactivated *Mycobacterium bovis* activates the complement system to protect against tuberculosis. **PLoS ONE** 9, e98048.
- 576) Gortazar, C., Boadella, M. 2014. Animal tuberculosis in Spain: A multihost system. **Zoonotic Tuberculosis: Mycobacterium bovis and Other Pathogenic Mycobacteria**, 349-356.
- 577) Tonk, M., Cabezas-Cruz, A., Valdés, J.J., Rego, R.O.M., Rudenko, N., Golovchenko, M., Bell-Sakyi, L., De la Fuente, J., Grubhoffer, L. 2014. Identification and partial characterisation of new members of the *Ixodes ricinus* defensin family. **Gene** 540, 146-152.
- 578) Gortazar, C., Beltrán-Beck, B., Garrido, J.M., Aranaz, A., Sevilla, I.A., Boadella, M., Lyashchenko, K.P., Galindo, R.C., Montoro, V., Domínguez, L., Juste, R., de la Fuente, J.

2014. Oral re-vaccination of Eurasian wild boar with *Mycobacterium bovis* BCG yields a strong protective response against challenge with a field strain. **BMC Veterinary Research** 10, 96.
- 579) Ruiz-Fons, F., Sánchez-Matamoros, A., Gortázar, C., Sánchez-Vizcaíno, J.M. 2014. The role of wildlife in bluetongue virus maintenance in Europe: Lessons learned after the natural infection in Spain. **Virus Research** 182, 50-58.
- 580) Acevedo, P., González-Quirós, P., Prieto, J.M., Etherington, T.R., Gortázar, C., Balseiro, A. 2014. Generalizing and transferring spatial models: A case study to predict Eurasian badger abundance in Atlantic Spain. **Ecological Modelling** 275, 1-8.
- 581) Villar, M., Popara, M., Ayllón, N., De Fernández Mera, I.G., Mateos-Hernández, L., Galindo, R.C., Manrique, M., Tobes, R., De La Fuente, J. 2014. A systems biology approach to the characterization of stress response in *Dermacentor reticulatus* tick unfed larvae. **PLoS ONE** 9, e89564.
- 582) Zanet, S., Trisciuglio, A., Bottero, E., De Mera, I.G.F., Gortazar, C., Carpignano, M.G., Ferroglio, E. 2014. Piroplasmosis in wildlife: *Babesia* and *Theileria* affecting free-ranging ungulates and carnivores in the Italian Alps. **Parasites and Vectors** 7, 70.
- 583) Antunes, S., Merino, O., Mosqueda, J., Moreno-Cid, J.A., Bell-Sakyi, L., Fragkoudis, R., Weisheit, S., Pérez De La Lastra, J.M., Alberdi, P., Domingos, A., De La Fuente, J. 2014. Tick capillary feeding for the study of proteins involved in tick-pathogen interactions as potential antigens for the control of tick infestation and pathogen infection. **Parasites and Vectors** 7, 42.
- 584) Torina, A., Moreno-Cid, J.A., Blanda, V., Fernández De Mera, I.G., De La Lastra, J.M.P., Scimeca, S., Blanda, M., Scariano, M.E., Briganò, S., Disclafani, R., Piazza, A., Vicente, J., Gortázar, C., Caracappa, S., Lelli, R.C., De La Fuente, J. 2014. Control of tick infestations and pathogen prevalence in cattle and sheep farms vaccinated with the recombinant Subolesin-Major Surface Protein 1a chimeric antigen. **Parasites and Vectors** 7, 10.
- 585) Ramón, M., Jiménez-Rabadán, P., García-Álvarez, O., Maroto-Morales, A., Soler, A.J., Fernández-Santos, M.R., Pérez-Guzmán, M.D., Garde, J.J. 2014. Understanding sperm heterogeneity: Biological and practical implications. **Reproduction in Domestic Animals** 49, 30-36.
- 586) López-Urueña, E., Alvarez, M., Gomes-Alves, S., Manrique, P., Anel-López, L., Chamorro, C.A., Borragan, S., de Paz, P., Anel, L. 2014. Alternative procedures for the cryopreservation of brown bear ejaculates depending on the flexibility of the "in cooling" period (5°C). **Cryobiology** 69, 434-441.
- 587) Ruiz-Fons, F., González-Barrio, D., Aguilar-Ríos, F., Soler, A.J., Garde, J.J., Gortázar, C., Fernández-Santos, M.D.R. 2014. Infectious pathogens potentially transmitted by

- semen of the black variety of the Manchega sheep breed: Health constraints for conservation purposes. *Animal Reproduction Science* 149, 152-157.
- 588) Cowie, C.E., Marreos, N., Gortázar, C., Jaroso, R., White, P.C.L., Balseiro, A. 2014. Shared risk factors for multiple livestock diseases: A case study of bovine tuberculosis and brucellosis. *Research in Veterinary Science* 97, 491-497.
- 589) Gamino, V., Escribano-Romero, E., Gutiérrez-Guzmán, A.V., Blázquez, A.B., Saiz, J.C., Höfle, U. 2014. Oculopathologic findings in flavivirus-infected gallinaceous birds. *Veterinary Pathology* 51, 1113-1116.
- 590) Gómez, P., González-Barrio, D., Benito, D., Garcíá, J.T., Viñuela, J., Zarazaga, M., Ruiz-Fons, F., Torres, C. 2014. Detection of methicillin-resistant *Staphylococcus aureus* (MRSA) carrying the mecC gene in wild small mammals in Spain. *Journal of Antimicrobial Chemotherapy* 69, 2061-2064.
- 591) García-Álvarez, O., Maroto-Morales, A., Ramón, M., Del Olmo, E., Jiménez-Rabadán, P., Fernández-Santos, M.R., Anel-López, L., Garde, J.J., Soler, A.J. 2014. Dynamics of sperm subpopulations based on motility and plasma membrane status in thawed ram spermatozoa incubated under conditions that support in vitro capacitation and fertilization. *Reproduction, Fertility and Development* 26, 725-732.
- 592) López-Urueña, E., Alvarez, M., Gomes-Alves, S., Martínez-Rodríguez, C., Borragan, S., Anel-López, L., De Paz, P., Anel, L. 2014. Tolerance of brown bear spermatozoa to conditions of pre-freezing cooling rate and equilibration time. *Theriogenology* 81, 1229-1238.
- 593) Beracochea, F., Gil, J., Sestelo, A., Garde, J.J., Santiago-Moreno, J., Fumagalli, F., Ungerfeld, R. 2014. Sperm characterization and identification of sperm sub-populations in ejaculates from pampas deer (*Ozotoceros bezoarticus*). *Animal Reproduction Science* 149, 224-230.
- 594) Popara, M., Villar, M., de la Fuente, J. 2014. Proteomics characterization of tick-host-pathogen interactions. *Methods in Molecular Biology* 1247, 513-527.
- 595) Martínez-López, B., Barasona, J.A., Gortázar, C., Rodríguez-Prieto, V., Sánchez-Vizcaíno, J.M., Vicente, J. 2014. Farm-level risk factors for the occurrence, new infection or persistence of tuberculosis in cattle herds from South-Central Spain. *Preventive Veterinary Medicine* 116, 268-278.
- 596) Pintus, E., Ros-Santaella, J.L. 2014. Diagnostic value of fine needle aspiration cytology in testicular disorders of red deer (*Cervus elaphus*): A case report. *Journal of Wildlife Diseases* 50, 994-997.
- 597) Liu, X.Y., de la Fuente, J., Cote, M., Galindo, R.C., Moutailler, S., Vayssier-Taussat, M., Bonnet, S.I. 2014. IrSPI, a Tick Serine Protease Inhibitor Involved in Tick Feeding and Bartonella henselae Infection. *PLoS Neglected Tropical Diseases* 8, e2993.

- 598) Estrada-Peña, A., De La Fuente, J. 2014. The ecology of ticks and epidemiology of tick-borne viral diseases. *Antiviral Research* 108, 104-128.
- 599) Duscher, G.G., Galindo, R.C., Tichy, A., Hummel, K., Kocan, K.M., de la Fuente, J. 2014. Glutathione S-transferase affects permethrin detoxification in the brown dog tick, *Rhipicephalus sanguineus*. *Ticks and Tick-borne Diseases* 5, 225-233.
- 600) Beltrán-Beck, B., Romero, B., Sevilla, I.A., Barasona, J.A., Garrido, J.M., González-Barrio, D., Díez-Delgado, I., Minguijón, E., Casal, C., Vicente, J., Gortázar, C., Aranaz, A. 2014. Assessment of an oral *Mycobacterium bovis* BCG vaccine and an inactivated *M. bovis* preparation for wild boar in terms of adverse reactions, vaccine strain survival, and uptake by nontarget species. *Clinical and Vaccine Immunology* 21, 12-20.
- 601) Lis, K., Najm, N., de la Fuente, J., Fernández de Mera, I., Zwegarth, E., Pfister, K., Passos, L.M.F. 2014. Use of Percoll gradients to purify *Anaplasma marginale* (*Rickettsiales: Anaplasmataceae*) from tick cell cultures. *Ticks and Tick-borne Diseases* 5, 511-515.
- 602) Díez-Delgado, I., Boadella, M., Martín-Hernando, M., Barasona, J.A., Beltrán-Beck, B., González-Barrio, D., Sibila, M., Vicente, J., Garrido, J.M., Segalés, J., Gortázar, C. 2014. Complex links between natural tuberculosis and porcine circovirus type 2 infection in wild boar. *BioMed Research International* 2014, 765715.
- 603) Segura, A., Acevedo, P., Rodríguez, O., Naves, J., Obeso, J.R. 2014. Biotic and abiotic factors modulating wild boar relative abundance in Atlantic Spain. *European Journal of Wildlife Research* 60, 469-476.
- 604) Queiros, J., Vicente, J., Boadella, M., Gortázar, C., Alves, P.C. 2014. The impact of management practices and past demographic history on the genetic diversity of red deer (*Cervus elaphus*): An assessment of population and individual fitness. *Biological Journal of the Linnean Society* 111, 209-223.
- 605) Acevedo, P., Quirós-Fernández, F., Casal, J., Vicente, J. 2014. Spatial distribution of wild boar population abundance: Basic information for spatial epidemiology and wildlife management. *Ecological Indicators* 36, 594-600.
- 606) Domingos, A., Antunes, S., Villar, M., de la Fuente, J. 2014. Functional genomics of tick vectors challenged with the cattle parasite *Babesia bigemina*. *Methods in Molecular Biology* 1247, 475-489.
- 607) Beltrán-Beck, B., Romero, B., Boadella, M., Casal, C., Bezos, J., Mazariegos, M., Martín, M., Galindo, R.C., Pérez De La Lastra, J.M., Villar, M., Garrido, J.M., Sevilla, I.A., Asensio, F., Sicilia, J., Lyashchenko, K.P., Domínguez, L., Juste, R.A., De La Fuente, J., Gortázar, C. 2014. Tonsils of the soft palate do not mediate the response of pigs to oral vaccination with heat-inactivated *Mycobacterium bovis*. *Clinical and Vaccine Immunology* 21, 1128-1136.

- 608) Santos, J.P.V., Vicente, J., Villamuelas, M., Albanell, E., Serrano, E., Carvalho, J., Fonseca, C., Gortázar, C., López-Olvera, J.R. 2014. Near infrared reflectance spectroscopy (NIRS) for predicting glucocorticoid metabolites in lyophilised and oven-dried faeces of red deer. **Ecological Indicators** 45, 522-528.
- 609) Acevedo, P., Melo-Ferreira, J., Real, R., Alves, P.C. 2014. Evidence for niche similarities in the allopatric sister species *Lepus castroviejo* and *Lepus corsicanus*. **Journal of Biogeography** 41, 977-986.
- 610) Byrne, A.W., Acevedo, P., Green, S., O'Keeffe, J. 2014. Estimating badger social-group abundance in the Republic of Ireland using cross-validated species distribution modelling. **Ecological Indicators** 43, 94-102.
- 611) Watson, E., Alberdi, M.P., Inglis, N.F., Lainson, A., Porter, M.E., Manson, E., Imrie, L., Mclean, K., Smith, D.G.E. 2014. Proteomic analysis of *Lawsonia intracellularis* reveals expression of outer membrane proteins during infection. **Veterinary Microbiology** 174, 448-455.
- 612) Contreras, M., de la Fuente, J., Estrada-Peña, A., Grubhoffer, L., Tobes, R. 2014. Genomic Resources Notes accepted 1 April 2014 - 31 May 2014. **Molecular Ecology Resources** 14, 1095-1095.
- 613) Estrada-Peña, A., Ostfeld, R.S., Peterson, A.T., Poulin, R., de la Fuente, J. 2014. Effects of environmental change on zoonotic disease risk: An ecological primer. **Trends in Parasitology** 30, 205-214.
- 614) Cabezas-Cruz, A., Valdés, J.J., De La Fuente, J. 2014. The glycoprotein TRP36 of *Ehrlichia* sp. UFMG-EV and related cattle pathogen *Ehrlichia* sp. UFMT-BV evolved from a highly variable clade of *E. canis* under adaptive diversifying selection. **Parasites and Vectors** 7, 584.
- 615) Richomme, C., Boadella, M., Courcoul, A., Durand, B., Drapeau, A., Corde, Y., Hars, J., Payne, A., Fediaevsky, A., Boschioli, M.L. 2014. Using a serological tool to assess the exposure of wild boar to *Mycobacterium bovis* [Utilisation d'un outil sérologique pour estimer l'exposition des Sangliers À *M. Bovis*]. **Epidemiologie et SanteAnimale** 65, 151-161.
- 616) Cabezas-Cruz, A., Valdés, J., De la Fuente, J. 2014. Cancer research meets tick vectors for infectious diseases. **The Lancet Infectious Diseases** 14, 916-917.
- 617) Mutshembele, A.M., Cabezas-Cruz, A., Mtshali, M.S., Thekisoe, O.M.M., Galindo, R.C., de la Fuente, J. 2014. Epidemiology and evolution of the genetic variability of *Anaplasma marginale* in South Africa. **Ticks and Tick-borne Diseases** 5, 624-631.
- 618) Ruiz-Fons, F., Balseiro, A., Willoughby, K., Oleaga, Á., Dagleish, M.P., Pérez-Ramírez, E., Havlíková, S., Klempa, B., Llorente, F., Martín-Hernando, M.P. 2014. Clinical infection

- of Cantabrian chamois (*Rupicapra pyrenaica parva*) by louping ill virus: New concern for mountain ungulate conservation? **European Journal of Wildlife Research** 60, 691-694.
- 619) Silva, J.B., Fonseca, A.H., Barbosa, J.D., Cabezas-Cruz, A., de la Fuente, J. 2014. Low genetic diversity associated with low prevalence of *Anaplasma marginale* in water buffaloes in Marajó Island, Brazil. **Ticks and Tick-borne Diseases** 5, 801-804.
- 620) Silva, J.B., Cabezas-Cruz, A., Fonseca, A.H., Barbosa, J.D., de la Fuente, J. 2014. Infection of water buffalo in Rio de Janeiro Brazil with *Anaplasma marginale* strains also reported in cattle. **Veterinary Parasitology** 205, 730-734.
- 621) Tonk, M., Cabezas-Cruz, A., Valdés, J.J., Rego, R.O.M., Chrudimská, T., Strnad, M., Šíma, R., Bell-Sakyi, L., Franta, Z., Vilcinskas, A., Grubhoffer, L., Rahnamaeian, M. 2014. Defensins from the tick *Ixodes scapularis* are effective against phytopathogenic fungi and the human bacterial pathogen *Listeria grayi*. **Parasites and Vectors** 7, 554.
- 622) Vilaça, S.T., Biosa, D., Zachos, F., Iacolina, L., Kirschning, J., Alves, P.C., Paule, L., Gortazar, C., Mamuris, Z., Jedrzejewska, B., Borowik, T., Sidorovich, V.E., Kusak, J., Costa, S., Schley, L., Hartl, G.B., Apollonio, M., Bertorelle, G., Scandura, M. 2014. Mitochondrial phylogeography of the European wild boar: The effect of climate on genetic diversity and spatial lineage sorting across Europe. **Journal of Biogeography** 41, 987-998.
- 623) Gortazar, C., Reperant, L.A., Kuiken, T., de la Fuente, J., Boadella, M., Martínez-Lopez, B., Ruiz-Fons, F., Estrada-Peña, A., Drosten, C., Medley, G., Ostfeld, R., Peterson, T., VerCauteren, K.C., Menge, C., Artois, M., Schultsz, C., Delahay, R., Serra-Cobo, J., Poulin, R., Keck, F., Aguirre, A.A., Henttonen, H., Dobson, A.P., Kutz, S., Lubroth, J., Mysterud, A. 2014. Crossing the interspecies barrier: Opening the door to zoonotic pathogens. **PLoS Pathogens** 10, e1004129.
- 624) Mentaberre, G., Gutiérrez, C., Rodríguez, N.F., Joseph, S., González-Barrio, D., Cabezón, O., de la Fuente, J., Gortazar, C., Boadella, M. 2013. A transversal study on antibodies against selected pathogens in dromedary camels in the Canary Islands, Spain. **Veterinary Microbiology** 167, 468-473.
- 625) Hornok, S., Dénes, B., Meli, M.L., Táncoz, B., Fekete, L., Gyuranecz, M., de la Fuente, J., Mera, I.G.F.D., Farkas, R., Hofmann-Lehmann, R. 2013. Non-pet dogs as sentinels and potential synanthropic reservoirs of tick-borne and zoonotic bacteria. **Veterinary Microbiology** 167, 700-703.
- 626) Ruiz-Fons, F., Acevedo, P., Sobrino, R., Vicente, J., Fierro, Y., Fernández-de-Mera, I.G. 2013. Sex-biased differences in the effects of host individual, host population and environmental traits driving tick parasitism in red deer. **Frontiers in Cellular and Infection Microbiology** 4, Article 23.

- 627) Merino, O., Alberdi, P., Pérez De La Lastra, J.M., de la Fuente, J. 2013. Tick vaccines and the control of tick-borne pathogens. **Frontiers in Cellular and Infection Microbiology** 4, 30.
- 628) Hajdušek, O., Šíma, R., Ayllón, N., Jalovecká, M., Perner, J., de la Fuente, J., Kopáček, P. 2013. Interaction of the tick immune system with transmitted pathogens. **Frontiers in Cellular and Infection Microbiology** 4, 26.
- 629) De la Fuente, J., Merino, O. 2013. Vaccinomics, the new road to tick vaccines. **Vaccine** 31, 5923-5929.
- 630) Merino, O., Antunes, S., Mosqueda, J., Moreno-Cid, J.A., Pérez de la Lastra, J.M., Rosario-Cruz, R., Rodríguez, S., Domingos, A., De la Fuente, J. 2013. Vaccination with proteins involved in tick-pathogen interactions reduces vector infestations and pathogen infection. **Vaccine** 31, 5889-5896.
- 631) Jiménez-Rabadán, P., Ramón, M., García-Álvarez, O., Maroto-Morales, A., Álvaro-García, P.J., Del Olmo, E., Pérez-Guzmán, M.D., Fernández-Santos, M.R., Julián Garde, J., Soler, A.J. 2013. Improved cryopreservation protocol for Blanca-Celtibérica buck semen collected by electroejaculation. **Cryobiology** 67, 251-257.
- 632) Alvarez-Rodríguez, M., Alvarez, M., López-Urueña, E., Martínez-Rodríguez, C., Borragan, S., Anel-López, L., De Paz, P., Anel, L. 2013. Brown bear sperm double freezing: Effect of elapsed time and use of PureSperm® gradient between freeze-thaw cycles. **Cryobiology** 67, 339-346.
- 633) Popara, M., Villar, M., Mateos-Hernández, L., Fernández De Mera, I.G., De La Fuente, J. 2013. Proteomics approach to the study of cattle tick adaptation to white tailed deer. **BioMed Research International** 2013, 319812.
- 634) Durán-Martínez, M., Ferroglio, E., Acevedo, P., Trisciuglio, A., Zanet, S., Gortázar, C., Ruiz-Fons, F. 2013. *Leishmania infantum* (Trypanosomatida: Trypanosomatidae) phlebotomines and fly vectors in continental mediterranean Spain. **Environmental Entomology** 42, 1157-1165.
- 635) Gortazar, C., Segalés, J. 2013. Middle East respiratory syndrome (MERS) coronavirus: A new challenge for veterinarians? **Veterinary Pathology** 50, 954-955.
- 636) Vicente, J., Barasona, J.A., Acevedo, P., Ruiz-Fons, J.F., Boadella, M., Diez-Delgado, I., Beltran-Beck, B., González-Barrio, D., Queirós, J., Montoro, V., de la Fuente, J., Gortazar, C. 2013. Temporal trend of tuberculosis in wild ungulates from mediterranean Spain. **Transboundary and Emerging Diseases** 60, 92-103.
- 637) Pinheiro, A., De Mera, I.G.F., Alves, P.C., Gortázar, C., De La Fuente, J., Esteves, P.J. 2013. Sequencing of modern Lepus VDJ genes shows that the usage of VHn genes has been retained in both *Oryctolagus* and *Lepus* that diverged 12 million years ago. **Immunogenetics** 65, 777-784.

- 638) Richomme, C., Boadella, M., Courcoul, A., Durand, B., Drapeau, A., Corde, Y., Hars, J., Payne, A., Fediaevsky, A., Boschioli, M.L. 2013. Exposure of wild boar to *Mycobacterium tuberculosis* complex in France since 2000 is consistent with the distribution of bovine tuberculosis outbreaks in cattle. **PLoS ONE** 8, e77842.
- 639) Gutiérrez-Expósito, D., Ortega-Mora, L.M., Marco, I., Boadella, M., Gortázar, C., San Miguel-Ayanz, J.M., García-Lunar, P., Lavín, S., Álvarez-García, G. 2013. First serosurvey of *Besnoitia* spp. infection in wild European ruminants in Spain. **Veterinary Parasitology** 197, 557-564.
- 640) Anderson, L.G., Gortázar, C., Vicente, J., Hutchings, M.R., White, P.C.L. 2013. Modelling the effectiveness of vaccination in controlling bovine tuberculosis in wild boar. **Wildlife Research** 40, 367-376.
- 641) Popara, M., Villar, M., Mateos-Hernández, L., de Mera, I.G.F., Marina, A., del Valle, M., Almazán, C., Domingos, A., de la Fuente, J. 2013. Lesser protein degradation machinery correlates with higher BM86 tick vaccine efficacy in *Rhipicephalus annulatus* when compared to *Rhipicephalus microplus*. **Vaccine** 31, 4728-4735.
- 642) Balseiro, A., Oleaga, Á., Polledo, L., Aduriz, G., Atxaerandio, R., Kortabarria, N., García Marín, J.F. 2013. *Clostridium sordellii* in a brown bear (*Ursus arctos*) from Spain. **Journal of Wildlife Diseases** 49, 1047-1051.
- 643) Reusken, C.B.E.M., Haagmans, B.L., Müller, M.A., Gutierrez, C., Godeke, G.-J., Meyer, B., Muth, D., Raj, V.S., Vries, L.S.D., Corman, V.M., Drexler, J.-F., Smits, S.L., El Tahir, Y.E., De Sousa, R., van Beek, J., Nowotny, N., van Maanen, K., Hidalgo-Hermoso, E., Bosch, B.-J., Rottier, P., Osterhaus, A., Gortázar-Schmidt, C., Drosten, C., Koopmans, M.P.G. 2013. Middle East respiratory syndrome coronavirus neutralising serum antibodies in dromedary camels: A comparative serological study. **The Lancet Infectious Diseases** 13, 859-866.
- 644) Estrada-Peña, A., Estrada-Sánchez, A., Estrada-Sánchez, D., de la Fuente, J. 2013. Assessing the effects of variables and background selection on the capture of the tick climate niche. **International Journal of Health Geographics** 12, 43.
- 645) Escribano-Romero, E., Gamino, V., Merino-Ramos, T., Blázquez, A.B., Martín-Acebes, M.A., de Oya, N.J., Gutiérrez-Guzmán, A.V., Escribano, J.M., Höfle, U., Saiz, J.C. 2013. Protection of red-legged partridges (*Alectoris rufa*) against West Nile virus (WNV) infection after immunization with WNV recombinant envelope protein E (rE). **Vaccine** 31, 4523-4527.
- 646) Muñoz-Mendoza, M., Marreros, N., Boadella, M., Gortázar, C., Menéndez, S., de Juan, L., Bezos, J., Romero, B., Copano, M.F., Amado, J., Sáez, J.L., Mourelo, J., Balseiro, A. Wild boar tuberculosis in Iberian Atlantic Spain: A different picture from Mediterranean habitats. **BMC Veterinary Research**, 9, 176.

- 647) Pinheiro, A., Woof, J.M., Abi-Rached, L., Parham, P., Esteves, P.J. 2013. Computational analyses of an evolutionary arms race between mammalian immunity mediated by immunoglobulin A and its subversion by bacterial pathogens. **PLoS ONE** 8, e73934.
- 648) Balseiro, A., González-Quirós, P., Rodríguez, T., Francisca Copano, M., Merediz, I., de Juan, L., Chambers, M.A., Delahay, R.J., Marreros, N., Royo, L.J., Bezos, J., Prieto, J.M., Gortázar, C. 2013. Spatial relationships between Eurasian badgers (*Meles meles*) and cattle infected with *Mycobacterium bovis* in Northern Spain. **Veterinary Journal** 197, 739-745.
- 649) Castellanos, P., Maroto-Morales, A., García-Álvarez, O., Garde, J.J., Mateo, R. 2013. Identification of optimal concentrations and incubation times for the study of in vitro effects of Pb in ram spermatozoa. **Bulletin of Environmental Contamination and Toxicology** 91, 197-201.
- 650) Acevedo, P., Romero, B., Vicente, J., Caracappa, S., Galluzzo, P., Marineo, S., Vicari, D., Torina, A., Casal, C., de la Fuente, J., Gortazar, C. 2013. Tuberculosis epidemiology in islands: Insularity, hosts and trade. **PLoS ONE** 8, e71074.
- 651) Gortazar, C., Cowan, P. 2013. Introduction to this issue: Dealing with TB in wildlife. **Epidemiology and Infection** 141, 1339-1341.
- 652) Gamino, V., Höfle, U. 2013. Pathology and tissue tropism of natural West Nile virus infection in birds: A review. **Veterinary Research** 44, 39.
- 653) Naranjo, V., Ayllón, N., Pérez de la Lastra, J.M., Galindo, R.C., Kocan, K.M., Blouin, E.F., Mitra, R., Alberdi, P., Villar, M., de la Fuente, J. 2013. Reciprocal Regulation of NF- κ B (Relish) and Subolesin in the Tick Vector, *Ixodes scapularis*. **PLoS ONE** 8, e65915.
- 654) Barasona, J.A., López-Olvera, J.R., Beltrán-Beck, B., Gortázar, C., Vicente, J. 2013. Trap-effectiveness and response to tiletamine-zolazepam and medetomidine anaesthesia in Eurasian wild boar captured with cage and corral traps. **BMC Veterinary Research** 9, 107.
- 655) Del Olmo, E., Bisbal, A., Maroto-Morales, A., García-Álvarez, O., Ramon, M., Jimenez-Rabadan, P., Martínez-Pastor, F., Soler, A.J., Garde, J.J., Fernandez-Santos, M.R. 2013. Fertility of cryopreserved ovine semen is determined by sperm velocity. **Animal Reproduction Science** 138, 102-109.
- 656) Ramón, M., Pérez-Guzmán, M.D., Jiménez-Rabadán, P., Esteso, M.C., García-Álvarez, O., Maroto-Morales, A., Anel-López, L., Soler, A.J., Fernández-Santos, M.R., Garde, J.J. 2013. Sperm cell population dynamics in ram semen during the cryopreservation process. **PLoS ONE** 8, e59189.
- 657) Ruiz-Fons, F., Ferroglio, E., Gortázar, C. 2013. *Leishmania infantum* in free-ranging hares, Spain, 2004-2010. **Eurosurveillance**, 18.



-
- 658) Ramón, M., Soler, A.J., Ortiz, J.A., García-Alvarez, O., Maroto-Morales, A., Roldan, E.R.S., Garde, J.J. 2013. Sperm population structure and male fertility: An intraspecific study of sperm design and velocity in Red Deer. ***Biology of Reproduction*** 89, 110.

