

2021

ARTECHE-VILLASOL, N.; GUTIERREZ-EXPOSITO, D.; VALLEJO, R.; ESPINOSA, J.; ELGUEZABAL, N.; LADERO-AUNON, I.; ROYO, M.; FERRERAS, M.C.; BENAVIDES, J.; PEREZ, V. 2021.

Early response of monocyte-derived macrophages from vaccinated and non-vaccinated goats against in vitro infection with *Mycobacterium avium* subsp. paratuberculosis.

Veterinary Research, 52(1): 69.

<https://doi.org/10.1186/s13567-021-00940-y>

BLANCO VAZQUEZ, C.; BALSEIRO, A.; ALONSO-HEARN, M.; JUSTE, R.A.; IGLESIAS, N.; CANIVE, M.; CASAIS, R. 2021.

Bovine intelectin 2 expression as a biomarker of paratuberculosis disease progression.

Animals, 11(5): 1370.

<https://doi.org/10.3390/ani11051370>

BLANCO VAZQUEZ, C.; BARRAL, T.D.; ROMERO, B.; QUEIPO, M.; MEREDIZ, I.; QUIROS, P.; ARMENTEROS, J.A.; JUSTE, R.; DOMINGUEZ, L.; DOMINGUEZ, M.; CASAIS, R.; BALSEIRO, A. 2021.

Spatial and temporal distribution of *Mycobacterium tuberculosis* complex infection in Eurasian Badger (*Meles meles*) and cattle in Asturias, Spain.

Animals, 11(5): 1294.

<https://doi.org/10.3390/ani11051294>

BONDE, C.S.; BORNANCIN, L.; LU, Y.; SIMONSEN, H.T.; MARTINEZ-VALLADARES, M.; PENAESPINOZA, M.; MEJER, H.; WILLIAMS, A.R.; TRAMSBORG, S.M. 2021.

Bio-guided fractionation and molecular networking reveal fatty acids to be principal anti-parasitic compounds in Nordic Seaweeds.

Frontiers in Pharmacology, 12: 674520.

<https://doi.org/10.3389/fphar.2021.674520>

CASTILLA-GOMEZ DE AGUERO, V.; GONZALEZ, J.F.; HERNANDEZ, J.N.; VALDERAS-GARCIA, E.; ROJO VAZQUEZ, F.A.; ARRANZ, J.J.; GUTIERREZ-GIL, B.; MARTINEZ-VALLADARES, M. 2021.

Differences within Churra breed sheep in the early immune response to the infection by *Teladorsagia circumcincta*.

Parasitology Research, 120(3): 1115-1120.

<https://doi.org/10.1007/s00436-020-06953-4>

CASTRO-SHOLTEN, S.; CANO-TERRIZA, D.; JIMENEZ-RUIZ, S.; ALMERIA, S.; RISALDE, M.A.; VICENTE, J.; ACEVEDO, P.; ARNAL, M.C.; BALSEIRO, A.; GOMEZ-GUILLAMON, F.; ESCRIBANO, F.; PUIG-RIBAS, M.; DUBEY, J.P.; GARCIA-BOCANEGRA, I. 2021.

Seroepidemiology of *Toxoplasma gondii* in wild ruminants in Spain.

Zoonoses and Public Health, 68(8): 884-895.

<https://doi.org/10.1111/zph.12878>

CHITNEEDI, P.K.; WIKARD, R.; ARRANZ, J.J.; MARTINEZ-VALLADARES, M.; KUEHN, C.; GUTIERREZ-GIL, B. 2021.

Identification of regulatory functions of LncRNAs associated with *T. Circumcincta* infection in adult sheep.

Frontiers in Genetics, 12, 685341.

<https://doi.org/10.3389/fgene.2021.685341>

ESPINOSA, J.; FERNANDEZ, M.; ROYO, M.; GRAU, A.; COLLAZOS, J.A.; BENAVIDES, J.; FERRERAS, M.C.; MINGUEZ, O.; PEREZ, V. 2021.

Influence of vaccination against paratuberculosis on the diagnosis of caprine tuberculosis during official eradication programmes in Castilla y Leon (Spain).

Transboundary and Emerging Diseases, 68(2): 692-703.
<https://doi.org/10.1111/tbed.13732>

ESPINOSA, J.; FERRERAS, M.C.; GARCIA, D.; VALLEJO, R.; PEREZ, V. 2021.

Case Report: Multiple Cavernous Pericardial Lymphangioma (Pericardial Lymphangiomatosis) in a Captive Peregrine Falcon (*Falco peregrinus brookei*).

Frontiers in Veterinary Science, 8: 662157.

<https://doi.org/10.3389/fvets.2021.662157>

FERNANDEZ, M.; PEREZ, V.; FUERTES, M.; BENAVIDES, J.; ESPINOSA, J.; MENENDEZ, J.; GARCIAPEREZ, A.L.; FERRERAS, M.C. 2021.

Pathological study of facial eczema (Pithomyctotoxicosis) in sheep.

Animals, 11(4): 1070.

<https://doi.org/10.3390/ani11041070>

FERNANDEZ-ESCOBAR, M.; CALERO-BERNAL, R.; REGIDOR-CERRILLO, J.; VALLEJO, R.; BENAVIDES, J.; COLLANTES-FERNANDEZ, E.; ORTEGA-MORA, L.M. 2021.

In vivo and in vitro models show unexpected degrees of virulence among *Toxoplasma gondii* type II and III isolates from sheep.

Veterinary Research, 52(1): 82.

<https://doi.org/10.1186/s13567-021-00953-7>

GANDASEGUI, J.; GRAU-PUJOL, B.; CAMBRA-PELLEJA, M.; ESCOLA, V.; DEMONTIS, M.A.; COSSA, A.; JAMINE, J.C.; BALANA-FOUCE, R.; VAN LIESHOUT, L.; MUNOZ, J.; MARTINEZ-VALLADARES, M. 2021.

Improving stool sample processing and pyrosequencing for quantifying benzimidazole resistance alleles in *Trichuris trichiura* and *Necator americanus* pooled eggs.

Parasites & Vectors, 14(1): 490.

<https://doi.org/10.1186/s13071-021-04941-w>

GONZALEZ-BARRIO, D.; DIEZMA-DIAZ, C.; GUTIERREZ-EXPOSITO, D.; TABANERA, E.; JIMENEZMELENDEZ, A.; PIZARRO, M.; GONZALEZ-HUESCAS, M.; FERRE, I.; ORTEGA-MORA, L.M.; ALVAREZGARCIA, G. 2021.

Identification of molecular biomarkers associated with disease progression in the testis of Bulls infected with *Besnoitia besnoiti*.

Veterinary Research, 52: 106.

<http://dx.doi.org/10.1186/s13567-021-00974-2>

GONZALEZ-BARRIO, D.; KOSTER, P.C.; HABELA, M.A.; MARTIN-PEREZ, M.; FERNANDEZ-GARCIA, J.L.; BALSEIRO, A.; BARRAL, M.; NAJERA, F.; FIGUEIREDO, A.M.; PALACIOS, M.J.; MATEO, M.; CARMENA, D.; ALVAREZ-GARCIA, G.; CALERO-BERNAL, R. 2021.

Molecular survey of *Besnoitia* spp. (Apicomplexa) in faeces from European wild mesocarnivores in Spain.

Transboundary and Emerging Diseases, 68(6): 3156-3166.

<https://doi.org/10.1111/tbed.14206>

GRAU-PUJOL, B.; MARTI-SOLER, H.; ESCOLA, V.; DEMONTIS, M.; JAMINE, J.C.; GANDASEGUI, J.; MUCHISSE, O.; CAMBRA-PELLEJA, M.; COSSA, A.; MARTINEZ-VALLADARES, M.; SACOR, C.; LIESHOUT, L.V.; CANO, J.; GIORGI, E.; MUNOZ, J. 2021.

Towards soil-transmitted helminths transmission interruption: The impact of diagnostic tools on infection prediction in a low intensity setting in Southern Mozambique.

PLoS Neglected Tropical Diseases, 15(10): e0009803.

<https://doi.org/10.1371/journal.pntd.0009803>

GUTIERREZ-CORBO, C.; DOMINGUEZ-ASENJO, B.; MARTINEZ-VALLADARES, M.; PEREZ-PERTEJO, Y.; GARCIA-ESTRADA, C.; BALAÑA-FOUCE, R.; REGUERA, R.M. 2021.

Reproduction in Trypanosomatids: Past and Present.

Biology-basel, 10(6): 471.

<https://doi.org/10.3390/biology10060471>

GUTIERREZ-EXPOSITO, D.; TEJERINA, F.; GUTIERREZ, J.; FERNANDEZ-ESCOBAR, M.; ORTEGA-MORA, L.M.; MANTECON, A.R.; DAGLEISH, M.P.; **PEREZ, V.**; **BENAVIDES, J.** 2021.
Direct economic losses of *Toxoplasma gondii* abortion outbreaks in two Spanish sheep flocks.
Veterinary Parasitology: Regional Studies and Reports, 26, 100623.
<https://doi.org/10.1016/j.vprsr.2021.100623>

HODNIK, J.J.; ACINGER-ROGIC, Z.; ALISHANI, M.; AUTIO, T.; **BALSEIRO, A.**; BEREZOWSKI, J.; CARMO, L.P.; CHALIGIANNIS, I.; CONRADY, B.; COST, L.; CVETKOVIC, I.; DAVIDOV, I.; DISPAS, M.; DJADJOVSK, I.; LECLERC DUARTE, E.; FAVERJON, C.; FOURICHON, C.; FROSSLING, J.; GERILOVYCH, A.; GETHMANN, J.; GOMES, J.; GRAHAM, D.; GUEL BENZU, M.; GUNN, G.J.; HENRY, M.K.; HOPP, P.; HOUE, H.; IRIMIA, E.; JEZEK, J.; JUSTE, R.A.; KALAITZAKIS, E.; KALER, J.; KAPLAN, S.; KOSTOULAS, P.; KOVALENKO, K.; KNEZEVIC, N.; KNIFIC, T.; KOLECI, X.; MADOUASSE, A.; MALAKAUSKAS, A.; MANDELIK, R.; MELETIS, E.; MINCU, M.; MOTUS, K.; MUNOZ-GOMEZ, V.; NICULAE, M.; NIKITOVIC, J.; OCEPEK, M.; TANGEN-OPSAL, M.; OZSVARI, L.; PAPADOPOULOS, D.; PAPADOPOULOS, T.; PELKONEN, S.; PAWEL POLAK, M.; POZZATO, N.; RAPALIUTE, E.; RIBBENS, E.; NIZA-RIBEIRO, J.; ROCH, F.F.; ROSENBAUM NIELSEN, L.; SAEZ, J.L.; SAXMOSE NIELSEN, S.; VAN SCHAIK, G.; SCHWAN, E.; SEKOVSKA, B.; STARIC, J.; STRAIN, S.; SATRAN, P.; SERIC-HARACIC, S.; TAMMINEN, L.M.; THULKE, H.H.; TOPLAK, I.; TUUNAINEN, E.; VERNER, S.; VILCEK, S.; YILDIZ, Y.; SANTMAN-BERENDS, INGE M.G.A. 2021.
Overview of cattle diseases listed under category C, D or E in the animal health law for which control programmes are in place within Europe.
Frontiers in Veterinary Science, 8: 688078.
<https://doi.org/10.3389/fvets.2021.688078>

JIMENEZ, M.; HIDALGO, C.; STOORE, C.; CORREA, F.; PEREIRA, I.; HERNANDEZ, M.; SAENZ, L.; **BENAVIDES, J.**; **FERRERAS, M.C.**; ROYO, M.; PAREDES, R. 2021.
Fasciola hepatica co-infection enhances Th1 immune response in the adventitial layer of non-fertile *Echinococcus granulosus* cysts.
Veterinary Parasitology, 290: 109343.
<https://doi.org/10.1016/j.vetpar.2021.109343>

JIMENEZ-RUIZ, S.; VICENTE, J.; GARCIA-BOCANEGRA, I.; CABEZON, O.; ARNAL, M.C.; **BALSEIRO, A.**; RUIZ-FONS, F.; GOMEZ-GUILLAMON, F.; LAZARO, S.; ESCRIBANO, F.; ACEVEDO, P.; DOMINGUEZ, L.; GORTAZAR, C.; FERNANDEZ DE LUCO, D.; RISALDE, M.A. 2021.
Distribution of Pestivirus exposure in wild ruminants in Spain.
Transboundary and Emerging Diseases, 68(3): 1577-1585.
<https://doi.org/10.1111/tbed.13827>

MARTINEZ-VALLADARES, M.; MARTIN-RAMOS, E.; ESTEBAN-BALLESTEROS, M.; BALAÑA-FOUCE, R.; ROJO-VAZQUEZ, F.A. 2021.
Effect of level of infection by gastrointestinal nematodes and anthelmintic treatment on milk yield in dairy sheep.
Parasite, 28: 71.
<https://doi.org/10.1051/parasite/2021068>

PEREZ, J.M.; GRANADOS, J.E.; **ESPINOSA, J.**; RAEZ-BRAVOS, A.; LOPEZ-OLVERA, J.R.; ROSSI, L.; MENEGUZ, P.G.; ANGELONE, S.; FANDOS, P.; SORIGUER, R.C. 2021.
Biology and management of sarcoptic mange in wild Caprinae populations.
Mammal Review, 51(1): 82-94.
<https://doi.org/10.1111/mam.12213>

RAMIREZ, H.; ECHEVERRIA, I.; BENITO, A.A.; GLARIA, I.; **BENAVIDES, J.**; **PEREZ, V.**; DE ANDRES, D.; REINA, R. 2021.
Accurate diagnosis of small ruminant lentivirus infection is needed for selection of resistant sheep through tmem154 e35k genotyping.
Pathogens, 10(1): 83.

<https://doi.org/10.3390/pathogens10010083>

RUSSELL, G.C.; HAIG, D.M.; DAGLEISH, M.P.; TODD, H.; PERCIVAL, A.; GRANT, D.M.; THOMSON, J.; KARAGIANNI, A.E.; **BENAVIDES, J.** 2021.

Analysis of immune responses to attenuated alcelaphine herpesvirus 1 formulated with and without adjuvant.

Vaccine, *X*, 8: 100090.

<https://doi.org/10.1016/j.jvacx.2021.100090>

SANCHEZ-SANCHEZ, R.; FERRE, I.; RE, M.; PEREZ-ARROYO, B.; CLEOFÉ-RESTA, D.; GARCIA, V.H.; DIAZ, M.P.; FERRER, L.M.; RUIZ, H.; **VALLEJO, R.; BENAVIDES, J.**; HULVERSON, M.A. 2021.

A short-term treatment with BKI-1294 does not protect foetuses from sheep experimentally infected with *Neospora caninum* tachyzoites during pregnancy

International Journal for Parasitology: Drugs and Drug Resistance, 17: 176-185.

<https://doi.org/10.1016/j.ijpddr.2021.10.001>

SANCHEZ-SANCHEZ, R.; VAZQUEZ-CALVO, A.; FERNANDEZ-ESCOBAR, M.; REGIDOR-CERRILLO, J.; **BENAVIDES, J.**; GUTIERREZ, J.; **GUTIERREZ-EXPOSITO, D.**; CRESPO-RAMOS, F.J.; ORTEGA-MORA, L.M.; ALVAREZ-GARCIA, G. 2021.

Dynamics of *Neospora caninum*-associated abortions in dairy sheep flock and results of a test-and-cull control programme.

Pathogens, 10(11): 1518.

<https://doi.org/10.3390/pathogens10111518>

THOMAS, J.; **BALSEIRO, A.**; GORTAZAR, C.; RISALDE, M.A. 2021.

Diagnosis of tuberculosis in wildlife: a systematic review.

Veterinary Research, 52(1): 31.

<https://doi.org/10.1186/s13567-020-00881-y>

VALDERAS-GARCIA, E.; DE LA VEGA, J.; ALVAREZ BARDON, M.; **CASTILLA-GOMEZ DE AGUERO, V.**; ESCARCENA, R.; LOPEZ-PEREZ, J.L.; **ROJO-VAZQUEZ, F.A.**; SAN FELICIANO, A.; DEL OLMO, E.; BALANAFUCE, R.; **MARTINEZ-VALLADARES, M.** 2021.

Anthelmintic activity of aminoalcohol and diamine derivatives against the gastrointestinal nematode *Teladorsagia circumcincta*.

Veterinary parasitology, 296: 109496.

<https://doi.org/10.1016/j.vetpar.2021.109496>

VALENTE, A.H.; DE ROODE, M.; ERNST, M.; PENA-ESPINOZA, M.; BORNANCIN, L.; BONDE, C.; **MARTINEZ-VALLADARES, M.**; RAMUNKE, S.; KRUCKEN, J.; SIMONSEN, H.T.; THAMSBORG, S.M.; WILLIAMS, A.R. 2021.

Identification of compounds responsible for the anthelmintic effects of chicory (*Cichorium intybus*) by molecular networking and bio-guided fractionation.

International Journal for Parasitology: Drugs and Drug Resistance, 15: 105-114.

<https://doi.org/10.1016/j.ijpddr.2021.02.002>

VAZQUEZ, S.; **VALLEJO, R.**; **ESPINOSA, J.**; **ARTECHE-VILLASOL, N.**; VEGA, J.A.; **PEREZ, V.** 2021.

Immunohistochemical characterization of tumor-associated macrophages in canine lymphomas.

Animals, 11 (8) 2301.

<https://doi.org/10.3390/ani11082301>