

## Artículos en Revistas Arbitradas

### Artículos en Revistas Científicas Especializadas 2019

#### Línea 1. Enfermedades infecciosas

N°	Artículo
1	Adhikari B, Hernandez-Patlan D, Solis-Cruz B, Kwon YM, Arreguin MA, Latorre JD, Hernandez- Velasco X, Hargis BM and Tellez-Isaias G (2019). Evaluation of the Antimicrobial and Anti- inflammatory Properties of Bacillus-DFM (NorumTM) in Broiler Chickens Infected With <i>Salmonella enteritidis</i> . Front. Vet. Sci. 6:282. doi: 10.3389/fvets.2019.00282
2	Agustin Fernandez-Salasa, Miguel Angel Alonso-Diaz, Rogelio Alejandro Alonso-Morales. Effect of entomopathogenic native fungi from paddock soils against <i>Rhipicephalus microplus</i> larvae with different toxicological behaviors to acaricides. Experimental Parasitology. 2019; 204:0. 1-6. <a href="https://doi.org/10.1016/j.exppara.2019.107729">https://doi.org/10.1016/j.exppara.2019.107729</a> .
3	Anaid Maciel-Rivera, Susana Flores-Villalva, Itzel Jiménez-Vázquez, Omar Catalán-Bárceñas, Clara Inés Espitia-Pinzón, Julio Morán, Lourdes Arriaga-Pizano, Alejandro Benítez-Guzmán, Edgar Alfonseca-Silva, Gutiérrez Pabello José Ángel Guadalupe. <i>Mycobacterium Tuberculosis</i> and <i>Mycobacterium Bovis</i> derived proteins induce caspase-independent apoptosis in bovine macrophages. Veterinaria Mexico OA. 2019; 6:9
4	Andrea Cháves, Carlos Ibarra-Cerdeña Andrés M López-Pérez, Gerardo Suzán, Gustavo Adolfo Gutiérrez-Espeleta. Bocaparvovirus, erythroparvovirus and tetraparvovirus in new world primates from Central America. Transboundary Emerging Diseases. 2019;16 doi: <a href="https://doi.org/10.1101/588079">https://doi.org/10.1101/588079</a>
5	Andrés M López-Pérez, Jesus David Licon-Enriquez, Sokani Sánchez-Montes, Gerardo Suzán, Pablo Colunga-Salas, Ingeborg Becker, Carmen Guzmán-Cornejo, Emily Pascoe, Janet Foley, Jesus Delgado-De La Mora. Molecular evidence of <i>Borrelia burgdorferi</i> sensu stricto and <i>Rickettsia massiliae</i> in ticks collected from a domestic-wild carnivore interface in Chihuahua, Mexico. Ticks And Tick-Borne Diseases. 2019;10:5 1118-1123 doi: 10.1016/j.ttbdis.2019.05.018
6	Araiza-Villanueva M, Avila-Calderón ED, Flores-Romo L, Calderón-Amador J, Sriranganathan N, Qublan HA, Witonsky S, Aguilera-Arreola MG, Ruiz-Palma MdS, Ruiz EA, Suárez-Güemes F, Gómez-Lunar Z and Contreras-Rodríguez A. Proteomic Analysis of Membrane Blebs of <i>Brucella abortus</i> 2308 and RB51 and Their Evaluation as an Acellular Vaccine. Front. Microbiol. 10:2714. doi: 10.3389/fmicb.2019.02714
7	Arregui-Nava M, Hernández-Patlán D, Solis-Cruz B, Latorre Jd, Hernandez-Velasco X, Tellez Jr G, El-Ashram S, Hargis Bm, Tellez-Isaias G. Isolation and Identification of Lactic Acid Bacteria Probiotic Culture Candidates for

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	the Treatment of <i>Salmonella enterica</i> Serovar Enteritidis in Neonatal Turkey Poults. <i>Animals</i> . 2019; 9:0.696-0. doi:10.3390/ani9090696
8	Arregui-Nava M., Graham B.D., Adhikari B., Agnello M., Selby C.M., Hernandez-Velasco X., Vuong Cn., Solis-Cruz B., Hernandez-Patlan D., Latorre J.D., Tellez G.Jr., Hargis B.M., Tellez-Isaias G. Evaluation of in ovo <i>Bacillus</i> spp based probiotic administration on horizontal transmission of virulent <i>Escherichia coli</i> in neonatal broiler chickens. <i>Poultry Sciences</i> . 2019; 98:0.6483-6491.
9	B. D. Graham, K. M. Robbins, K. D. Teague, L. E. Graham, R. Merino-Guzman, G. Tellez and B. M. Hargis. Evaluation of the efficacy of a candidate turkey cellulitis/dermatitis oil emulsion vaccine on immune response and mortality under laboratory and commercial conditions. <i>The journal of applied poultry research</i> . 2019; 2: 4. doi.org/10.3382/japr/pfz038
10	Benítez-Guzmán A, Esquivel-Solís H, Romero-Torres C, Arriaga-Díaz C, Gutiérrez-Pabello JA. Genetically Related <i>Mycobacterium Bovis</i> Strains Displayed Differential Intracellular Growth in Bovine Macrophages. <i>Veterinary Science</i> 2019 Oct 18;6(4). pii E81. doi 10.3390/vetsci6040081
11	Bernardo Saucedo, José M. Serrano Orc ID, Mónica Jacinto-Maldonado, Rob S.E. W. Leuven, Abraham A. Rocha García, Adriana Méndez Bernal, Andrea Gröne Steven J. Van Beurden and César M. Escobedo-Bonilla. Pathogen Risk Analysis for Wild Amphibian Populations Following the First Report of a Ranavirus Outbreak in Farmed American Bullfrogs ( <i>Lithobates catesbeianus</i> ) from Northern Mexico. <i>Viruses</i> . 2019; 11: 1 <a href="https://doi.org/10.3390/v11010026">https://doi.org/10.3390/v11010026</a>
12	Carrisoza-Urbina J., Morales-Salinas E., Bedolla-Alva MA., Hernández-Pando R., Gutiérrez-Pabello JA. Atypical granuloma formation in <i>Mycobacterium Bovis</i> -Infected calves. <i>PLOS ONE</i> . 2019; 14:7. doi.org/10.1371/journal.pone.0218547
13	David Jáuregui-Zúñiga, Martha Pedraza-Escalona, Rubén Merino-Guzman, Lourival D. Possani. Construction and expression of a single-chain variable fragment antibody against chicken DEC 205 for targeting the bacterial expressed hemagglutinin-neuraminidase of Newcastle disease virus. <i>Veterinary Immunology and Immunopathology</i> . 2019; 212: 9-14 doi.org/10.1016/j. vetimm.2019.05.001
14	Díaz-Cortés J, Vega-Manríquez X And Verdugo-Rodríguez A. Identification of <i>fliC</i> and flagella expression in <i>salmonella enterica</i> subspecies enterica serovar <i>gallinarum</i> biovar <i>gallinarum</i> . <i>African Journal of Microbiology Research</i> . 2019;13:2 40-49 10.5897/AJMR2018.8959
15	Eric Daniel Avila-Calderón, Leopoldo Flores-Romo, Witonsky Sharon, Luis Donis-Maturano, Miguel Angel Becerril-García, Ma. Guadalupe Aguilera Arreola, Beatriz Arellano Reynoso, Francisco Suarez Güemes, Araceli Contreras-Rodríguez. Dendritic cells and <i>Brucella</i> spp. interaction: the

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	sentinel host and the stealthy pathogen. <i>Folia Microbiologica</i> 2019; 64:382. <a href="https://doi.org/10.1007/s12223-019-00691-6">https://doi.org/10.1007/s12223-019-00691-6</a>
16	Erik Nieto-Patlán, Jeanet Serafín-López, Isabel Wong-Baeza, Sonia M. Pérez-Tapia, Laura Cobos- Marín, Sergio Estrada-Parra, Iris Estrada-García, Alma D. Chávez-Blanco, Rommel Chacón-Salinas. Valproic acid promotes a decrease in mycobacterial survival by enhancing nitric oxide production in macrophages stimulated with IFN-g. <i>Tuberculosis</i> . 2019; 114: 123 <a href="https://doi.org/10.1007/s11259-016-9666-5">10.1007/s11259-016-9666-5</a>
17	Hugo Mendoza, André V Rubio, Gabriel E García-Peña, Gerardo Suzán y Javier A Simonetti. Does land-use change increase the abundance of zoonotic reservoirs? Rodents say yes. <i>European Journal Of Wildlife Research</i> . 2019; 66 (1):6. <a href="https://doi.org/10.1007/s10344-019-1344-9">doi.org/10.1007/s10344-019-1344-9</a>
18	Jesús Zepeda-Cervantes, Adolfo Cruz Reséndiz, Alicia Sampieri, Rosalba Carreón-Nápoles, José Iván Sánchez Betancourt, Luis Vaca. Incorporation of ORF2 from Porcine Circovirus Type 2 (PCV2) into genetically encoded nanoparticles as a novel vaccine using a self-aggregating peptide. <i>Vaccine</i> . 2019, 1928-1937 <a href="https://doi.org/10.1016/j.vaccine.2019.02.044">https://doi.org/10.1016/j.vaccine.2019.02.044</a>
19	Juan M García Lobo, Yelina Ortiz, Candela Gonzalez-Riancho, Asunción Seoane, Beatriz Arellano- Reynoso, And Félix J Sangari. Polymorphisms in <i>Brucella</i> Carbonic Anhydrase II Mediate CO2 Dependence and Fitness in vivo. <i>Frontiers in Microbiology</i> . 2019; 0:0. 1 -13 <a href="https://doi.org/10.3389/fmicb.2019.02751">doi: 10.3389/fmicb.2019.02751</a>
20	Ladron de Guevara O.S., Pérez, R, JJ., Pérez MM., Flores PFI., Romero, C.E. <i>Eimeria spp. in broiler rabbit: seasonal prevalence in backyard farms of the State of Mexico</i> . <i>Veterinaria Italiana</i> 2019, 55 (2), 183-187 DOI: <a href="https://doi.org/10.12834/VetIt.443.2154.3">10.12834/VetIt.443.2154.3</a>
21	Laura Cobos Marín, Alejandro Rodríguez Monterde, Liliana M. Valdés Vázquez. Encefalitis Equina del oeste. <i>Veterinaria México OA</i> . 2019; 6:3. <a href="https://doi.org/10.22201/fmvz.24486760e.2019.3.785">10.22201/fmvz.24486760e.2019.3.785</a> .
22	Lauro Velazquez-Salinas, Antonio Verdugo-Rodriguez, Luis L Rodriguez And Manuel V Borca. The Role of Interleukin 6 During Viral Infections. <i>Frontiers in Microbiology</i> . 2019; 10:0. 1-6 <a href="https://doi.org/10.3389/fmicb.2019.01057">https://doi.org/10.3389/fmicb.2019.01057</a>
23	Lizeth Guadalupe Campos-Múzquiz, Estela Teresita Méndez-Olvera, Beatriz Arellano-Reynoso, Daniel Martínez-Gómez. <i>Campylobacter fetus</i> is Internalized by Bovine Endometrial Epithelial Cells. <i>Polish Journal Of Microbiology</i> . 2019; 68:2. 217-224 <a href="https://doi.org/10.33073/pjm-2019-022">https://doi.org/10.33073/pjm-2019-022</a>
24	López-Pérez, AM, Moreno, K, Cháves, A, Ibarra-Cerdeña, C N, Rubio, A, Foley, J, List, R And Suzán, G. Carnivore Protoparvovirus 1 at the Wild-Domestic Carnivore Interface in Northwestern Mexico. <i>Ecohealth</i> . 2019;16(3) 502-511 <a href="https://doi.org/10.1007/s10393-019-01436-0">doi.org/10.1007/s10393-019-01436-0</a>

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25	Luay Martínez-Chavarría, Alheli T. Lugo-García, Laura P. Romero-Romero, Luis J. García-Márquez, Alonso Reyes-Matute Outbreak of francisellosis ( <i>Francisella noatunensis</i> subsp <i>orientalis</i> ) in cultured neon jewel cichlids <i>Hemichromis bimaculatus</i> from Morelos, México. <i>Dis Aquat Org.</i> 2019; 137:0 125-130. DOI: 10.3354/dao03429
26	María de los Angeles Peralta-Martínez, Marco Linné Unzueta-Bustamante, Hugo H Montaldo, Alejandra Caballero-Zamora, Héctor Castillo-Juárez. Morphometric relationships among spermatophore structures and their association with female fertility in the Pacific white shrimp <i>Litopenaeus vannamei</i> . <i>Journal of Applied Aquaculture</i> , 31:4, 301-308, DOI: 10.1080/10454438.2019.1586614
27	Mariana Reyes-Quintana, Laura G. Espinosa-Montaña, Daniel Prieto-Merlos, Gun Koleoglu, Tatiana Petukhova, Adriana Correa-Benítez, Ernesto Guzman-Novoa. Impact of <i>Varroa destructor</i> and deformed wing virus on emergence, cellular immunity, wing integrity and survivorship of africanized honey bees in Mexico. <i>Journal of Invertebrate Pathology.</i> 2019; 164:43. Doi. org/10.1016/j.jip.2019.04.009
28	Merino-Charrez Octavio, Gomez Romero Ninnet, Barrera Molina Ivette, Lagunes Quintanilla Rodolfo. <i>In silico</i> analysis of the <i>subolesin</i> gene as a possible vaccine against <i>Rhipicephalus microplus</i> ticks. <i>Ecosistemas y recursos agropecuarios</i> 2019; 16:16. Doi.org/10.19136/era.a6n16.1832
29	Mireya Juárez-Ramírez, Iván Sánchez Betancourt, María Elena Trujillo-Ortega, Susana Mendoza Elvira, Rosalba Carreón Napoles, Benjamín Fuente-Martínez, Francisco J Trigo-Tavera. Clinical evaluation, serological response and lesions generated by the A/Mexico/ La Gloria-3/2009/H1N1 and A/swine/New Jersey/11/1976/H1N1 influenza viruses in calostrated and non-colostrated pigs. <i>Virus Dis.</i> 2019; 30:3 433-440 doi: 10.1007/s13337-019-00531-8
30	Montserrat E. García-Hernández, Rosa E. Sarmiento-Silva, Liliana M. Valdés-Vázquez, Laura Cobos-Marín. Evidencia serológica de infección por herpesvirus caprino tipo 1 en cabras en México. <i>Rev Mex Cienc Pecu.</i> 2019; 10:2 506-510. <a href="https://doi.org/10.22319/rmcp.v10i2.4791">https://doi.org/10.22319/rmcp.v10i2.4791</a>
31	Moreno-Torres A, Malvido-Jiménez IR, Peña-Moctezuma A, Castillo Sánchez LO, Fraga TR, Barbosa AS, Isaac L, Sahagún-Ruiz A. Culture-attenuated pathogenic <i>Leptospira</i> lose the ability to survive to complement-mediated-killing due to lower expression of factor H binding proteins. <i>Microbes And Infection.</i> 2019. 377-385 doi:10.1016/j.micinf.2019.03.001
32	Morgan N Clint, López Pérez Andres, Martínez Duque Paola, Suzán Gerardo, Gallardo Romero Nadia. Prevalence of antibodies to orthopoxvirus in wild carnivores of northwestern Chihuahua, Mexico. <i>Journal of Wildlife Diseases.</i> 2019;55:3 637-644 <a href="https://doi.org/10.7589/2018-07-184">https://doi.org/10.7589/2018-07-184</a>

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33	Muñoz, GCI., Guzmán, C.C., Rendón, F.E., Villanueva G.C., Sánchez, MS., Acosta, GR., Romero, CE., Díaz, LH., Martínez C.C., Berriatua E. Epidemiological study of ticks collected from the northern tamandua ( <i>Tamandua mexicana</i> ) and a literature review of ticks of Myrmecophagidae anteaters. Ticks and Ticks-borne Diseases. 2019; 10; 5. doi.org/10.1016/j.ttbdis.2019.06.005
34	Muñoz, GCI., Sánchez, MOS., Villanueva, GC., Romero, CE., Díaz, L. HM., Gordillo Ch EJ., Martínez, CC., Berriatura, E. The role of sloths and anteaters as Leishmania spp. reservoirs: a review and a newly described natural infection of <i>Leishmania mexicana</i> in the northern anteater. Parasitology Research. Protozoology 2019; 118: (4). https://doi.org/10.1007/s00436-019-06253-6
35	Nava-Castro KE, Solleiro-Villavicencio H, Río-Araiza VHD, Segovia-Mendoza M4, Pérez-Torres A, Morales-Montor J. Sex-associated protective effect of early bisphenol-A exposure during enteric infection with <i>Trichinella spiralis</i> in mice. PLoS One. 2019. 10.1371/journal.pone.0218198
36	Nieto Rabiela Fabiola, Wiratsudakul Anuwat, Suzán Gerardo, Rico Chávez. Viral networks and detection of potential zoonotic viruses in bats and rodent: a worldwide analysis metacommunities associated to bats and rodents: a worldwide analysis. Zoonoses Public Health. 2019; 66.6. 655-666 doi: 10.1111/zph.12618
37	Ortega-Vargas S, Espitia C, Sahagún-Ruiz A, Parada C, Balderas-Loeza A, Villa-Mancera A, Quiroz-Romero H. Moderate protection is induced by a chimeric protein composed of leucine aminopeptidase and cathepsin L1 against <i>Fasciola hepatica</i> challenge in sheep. Vaccine. 2019; 37:24. DOI: 10.1016/j.vaccine.2019.04.067
38	Pérez-Rivera C, Ramírez-Mendoza H, Mendoza-Elvira S, Segura-Velázquez R, Sánchez-Betancourt JI. First report and phylogenetic analysis of porcine deltacoronavirus in Mexico. Transboundary and Emerging Diseases 2019; 66: 4. doi.org/10.1111/tbed.13193
39	Richard Whittington, et. al. Control of paratuberculosis: who, why and how. A review of 48 countries. BMC Veterinary Research (2019) 15:198 https://doi.org/10.1186/s12917-019-1943-4
40	Rosa Elena Sarmiento-Silva, Francisco Arenas-Huertero. Hepatitis E in Latin America. Annals of Hepatology. 18 (2019) 541-542, https://doi.org/10.1016/j.aohep.2019.05.004
41	Ruiz-Manzano RA, Hernández-Cervantes R, Del Río-Araiza VH, Palacios-Arreola MI, Nava-Castro KE, Morales-Montor J. Immune response to chronic <i>Toxocara canis</i> infection in a mice model. Parasite Immunology 2019; 41:12. doi.org/10.1111.pim.12672
42	S. Escaren O-Díaz, M.A. Alonso-Díaz, P. Mendoza de Gives, E. Castillo-Gallegos, E. von Son-de Fernex. Anthelmintic-like activity of polyphenolic compounds and their interactions against the cattle nematode <i>Cooperia punctata</i> . Veterinary Parasitology. 2019; 274. doi.org/10.1016/j.vetpar.2019.08.003

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43	Saavedra-Montañez M, Vaca L, Ramírez-Mendoza H, Gaitán-Peredo C, Bautista-Martínez R, Segura-Velázquez R, Cervantes-Torres J, Sánchez-Betancourt I. Identification and genomic characterization of influenza viruses with different origin in Mexican pigs. <i>Transboundary and Emerging Diseases</i> 2019; 66: 1. doi.org/10.1111/tbed.12998
44	Saúl Reveles-Félix, Rosalba Carreón-Nápoles, Susana Mendoza-Elvira, Víctor Quintero-Ramírez, Juvencio García-Sánchez, Rebeca Martínez-Bautista, Manuel Saavedra-Montañez, Juan Joel Mosqueda, José Ivan Sánchez-Betancourt. Emerging strains of porcine epidemic diarrhoea virus (pedv) in Mexico. <i>Transbound Emerg Dis.</i> 2019;0:0 1-7 10.1111/tbed.13426
45	Sotomayor Bonilla Jesús, Moreira Soto Andrés, Mendizabal Daniel, Soley Guardia Mariano, Ramírez Fernández José Daniel, Villalobos Chaves David, Niehaus Carmen, Gutiérrez Espeleta Gustavo, Rico Chávez Oscar, Foley Janet, Suzán Gerardo, Chaves Friedlander Andrea. Diverse beta and gammaherpesviruses in neotropical rodents from Costa Rica. <i>Journal of Wildlife Diseases.</i> 2019; 55:3 doi: 10.7589/2018-05-117
46	V.A. Avila-Reyes, V. Díaz-Morales, F. Chávez-Maya, G. García-Espinosa, F.D. Sánchez- Gody. Outbreak of Systemic Avian Pox in Canaries ( <i>Serinus canaria domestica</i> ) Associated with the B1 Subgroup of Avian Pox Viruses. <i>Avian Diseases.</i> 2019; 63: https://doi.org/10.1637/12038-011819-Case.1
47	Velázquez-Jimenez Y; Hernández-Castro R; Romero-Romero L; Salas-Garrido G; Martínez- Chavarría Lc. Feline Phaeohyphomycotic Cerebellitis Caused by <i>Cladosporium cladosporioides</i> - complex: Case Report and Review of Literature. <i>Journal Comparative Pathology.</i> 2019; 170:0.78- 85. https://doi.org/10.1016/j.jcpa.2019.05.011
48	Velazquez-Salinas Lauro, Pauszek Steven J, Stenfeldt Carolina, O Hearn Emily S, Pacheco Juan M, Borca Manuel V, Verdugo-Rodriguez Antonio, Arzt Jonathan, Rodriguez Luis L. Validation of a site-specific recombination cloning technique for the rapid development of a full-length cDNA clone of a virulent field strain of vesicular stomatitis New Jersey virus. <i>Journal of Virological Methods.</i> 2019; 265:0 113-116 DOI:10.1016/j.jviromet.2019.01.003
49	Viguera-Galván AL, López-Pérez AM, García-Peña GE, Rico-Chávez O, Sarmiento-Silva RE, Suzán G. Current Situation and Perspectives on Hantaviruses in Mexico. <i>Viruses.</i> 2019 12; 11(7):642. https://doi.org/10.3390/v11070642
50	Zhu H, Damdinjav B, Gonzalez G, Patrono LV, Ramirez-Mendoza H, Amat JAR, Crispell J, Parr YA, Hammond TA, Shiilegdamba E, Leung YHC, Peiris M, Marshall JF, Hughes J, Gilbert M, Murcia PR. Absence of adaptive evolution is the main barrier against influenza emergence in horses in Asia despite frequent virus interspecies transmission from wild birds. <i>PLoS Pathogens.</i> 2019; 15:2. doi.org/10.1371/journal.ppat.1007531

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51	Zipfel, P. F., Dasari, P., Koleci, N., Shopova, I., Wartenberg, D., Beyersdorf, N., Dietrich, N., Sahagún- Ruiz A., Skerka, C., and Brakhage, A. A. Enolase From <i>Aspergillus fumigatus</i> Is a Moonlighting Protein That Binds the Human Plasma Complement Proteins Factor H, FHL-1, C4BP, and Plasminogen. <i>Frontiers in Immunology</i> . 2019; 10: 2573 doi.org/10.3389/fimmu.2019.02573

## Línea 2. Reproducción

N°	Artículo
1	Agustín Orihuela and Carlos S. Galina. Effects of Separation of Cows and Calves on Reproductive Performance and Animal Welfare in Tropical Beef Cattle. <i>Animals</i> . 2019; 9: 5. <a href="https://doi.org/10.3390/ani9050223">https://doi.org/10.3390/ani9050223</a>
2	Carlos G. Gutiérrez Aguilar, Adrián Guzmán, Cyndi G. Hernández-Coronado, Héctor Castillo Juárez, Francisco Fierro, Rafael Bojalil, Ana Ma. Rosales Torres. Co-ordinated expression of the VEGF system components in granulosa cells to develop a proangiogenic autocrine milieu during ovarian follicle development. <i>Molecular Reproduction And Development</i> . 2019;8 6:2.156-165. doi: 10.1002/mrd.23089
3	Diana García-Vargas, Lizbeth Juárez-Rojas, Susana Rojas Maya, and Socorro Retana-Márquez. Prenatal stress decreases sperm quality, mature follicles and fertility in rats. <i>Systems Biology in Reproductive Medicine</i> . 2019; 0:0.1-16. <a href="https://doi.org/10.1080/19396368.2019.1567870">https://doi.org/10.1080/19396368.2019.1567870</a>
4	Diaz D, Rosiles RJ, Urias-Castro CJ, Rodriguez-Gaxiola MA, Gaxiola SM, Montero-Pardo A. Systematic review and meta-analysis of the efficacy of reproductive management practices used to induce resumption of avarian cyclical activity in anestrous does. <i>Preventive Veterinary Medicine</i> . 2019; 169:0. 215-220. <a href="https://doi.org/10.1016/j.prevetmed.2019.104709">https://doi.org/10.1016/j.prevetmed.2019.104709</a>
5	Miguel-Cruz E, Mejía O, Zarco L. Induction of fertile estrus without the use of steroids hormones in seasonally anestrous Suffolk ewes. <i>Asian-Australas Journal of Animal Sciences</i> . 2019; 32(11): 1673-1685. Doi:10.5713/ajas.18.0769
6	Ortiz-Carrera L, Aceves-Ramos A, Zarco L, Valencia J, Romano Mc. The effect of letrozole administration on the aggressive behavior and reproductive parameters of male goats ( <i>Capra hircus</i> ). <i>Small Ruminant Research</i> . 2019; 174:0. 69-76. <a href="https://doi.org/10.1016/j.smallrumres.2019.02.001">https://doi.org/10.1016/j.smallrumres.2019.02.001</a>
7	Romero-Palacios Sergio, Rojas-Maya Susana, Delgadillo José Alberto, Retana-Márquez Socorro. <i>Leucaena leucocephala</i> extract has estrogenic and antiestrogenic actions on female rat reproduction. <i>Physiology &amp; Behavior</i> . 2019; 211:0.1-12. <a href="https://doi.org/10.1016/j.physbeh.2019.112683">https://doi.org/10.1016/j.physbeh.2019.112683</a>

N°	Artículo
8	Sheila Peña-Corona, Pablo León, Enrique Mendieta, Maximiliano Villanueva, Arturo Salame, Dinorah Vargas, Guillermo Mora, Héctor Serrano, Alejandro Villa-Godoy. Effect of a single application of coumestrol and/or dimethyl sulfoxide, on sex hormone levels and vaginal cytology of anestrus bitches. <i>Veterinaria México OA</i> . 2019; 6:1. <a href="http://dx.doi.org/10.22201/fmvz.24486760e.2019.1.656">http://dx.doi.org/10.22201/fmvz.24486760e.2019.1.656</a>
9	Susana Espinosa Hernández, Martínez Gamba Roberto and Luz Valeria Martínez Carrillo. Methodology for the evaluation of reproductive management in pig farms. <i>Journal of Agricultural Science and Technology</i> . 2019; 8:0.388-397 doi:10.17265/2161-6256/2018.06.006
10	Vigueras-Villaseñor RM, Jiménez Cabrera T, Chávez Saldaña M, Jiménez Trejo F, Cuevas Alpuche O, Rojas-Castañeda JC. Epigallocatechin-3-gallate protects the testis from damage generated by experimental cryptorchidism in rabbits. <i>Histology and Histopathology</i> . 2019; 34:8. DOI:10.14670/HH-18-096

### Línea 3. Nutrición Animal

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