



### **Líneas de investigación**

- 1. Enfermedades infecciosas.**
- 2. Reproducción.**
- 3. Nutrición Animal.**
- 4. Patología de enfermedades no infecciosas.**
- 5. Farmacología, Fisiología y Terapéutica.**
- 6. Etología, Bienestar Animal y Conservación.**
- 7. Salud Pública y Epidemiología.**
- 8. Genética.**
- 9. Sistemas de producción, Atención Clínica y Educación.**

## Artículos Publicados en Revistas Indizadas por Línea de Investigación 2019

### Línea 1. Enfermedades Infecciosas

1.- Carrisoza-Urbina J., Morales-Salinas E., Bedolla-Alva MA., Hernández-Pando R., Gutiérrez-Pabello JA.

Atypical granuloma formation in *Mycobacterium Bovis*-Infected calves. PLOS ONE. 2019; 14:7.

doi.org/10.1371/journal.pone.0218547

2.-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. European Journal Of Wildlife Research. 2019; 66 (1):6. doi.org/10.1007/s10344-019-1344-9

3.-Ladron de Guevara O.S., Pérez, R, JJ., Pérez MM., Flores PFI., Romero, C.E. *Eimeria spp. in broiler rabbit: seasonal prevalence in backyard farms of the State of Mexico*. Veterinaria Italiana 2019, 55 (2), 183-187  
DOI: 10.12834/VetIt.443.2154.3

4.- 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. Ecohealth. 2019;16(3) 502-511 doi.org/10.1007/s10393-019-01436-0

5.- Anaíd 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. *Mycobacterium Tuberculosis* and *Mycobacterium Bovis* derived proteins induce caspase-independent apoptosis in bovine macrophages. Veterinaria Mexico OA. 2019; 6:9

6.- Díaz-Cortés J, Vega-Manríquez X And Verdugo-Rodríguez A. Identification of *fliC* and flagella expression in *salmonella enterica* subspecies *enterica* serovar *gallinarum* biovar *gallinarum*. African Journal of Microbiology Research. 2019;13:2 40-49 10.5897/AJMR2018.8959

7.- 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. Vaccine. 2019; 1928-1937 <https://doi.org/10.1016/j.vaccine.2019.02.044>

8.- Ladron de Guevara O.S., Pérez, R, JJ., Pérez MM., Flores PFI., Romero, C.E. *Eimeria spp. in broiler rabbit: seasonal prevalence in backyard farms of the State of Mexico*. Veterinaria Italiana 2019, 55 (2), 183-187  
DOI: 10.12834/VetIt.443.2154.3

9.- 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. Ecohealth. 2019;16(3) 502-511 doi.org/10.1007/s10393-019-01436-0

10.- 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. Journal of Wildlife Diseases. 2019;55:3 637-644 <https://doi.org/10.7589/2018-07-184>

11.- 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

12.- Mariana Reyes-Quintana, Laura G. Espinosa-Montaño, Daniel Prieto- Merlos, Gun Koleoglu, Tatiana Petukhova, Adriana Correa-Benítez, Ernesto Guzman-Novoa. Impact of *Varroa destructor* and deformed wing virus on emergence, cellular immunity, wing integrity and survivorship of africanized honey bees in Mexico. Journal of Invertebrate Pathology. 2019; 164:43. Doi. org/10.1016/j.jip.2019.04.009

13.- 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. Rev Mex Cienc Pecu. 2019; 10:2 506-510. <https://doi.org/10.22319/rmcp.v10i2.4791>

14.- Ruiz-Manzano RA, Hernández-Cervantes R, Del Río-Araiza VH, Palacios-Arreola MI, Nava-Castro KE, Morales-Montor J. Immune response to chronic *Toxocara canis* infection in a mice model. Parasite Immunology 2019; 41:12. doi.org/10.1111/pim.12672

## Línea 2. Reproducción

1.- Miguel-Cruz E, Mejía O, Zarco L. Induction of fertile estrus without the use of steroids hormones in seasonally anestrous Suffolk ewes. Asian-Australas Journal of Animal Sciences. 2019; 32(11): 1673-1685. Doi:10.5713/ajas.18.0769

## Línea 3. Nutrición

1.- Ramos VD, Gomez VG, Cortes CA, Del Rio GJC, Fernandez TS, C Garraga AS, Avila GE. Organic trace minerals on productive performance, egg quality and immune response in Bovans White laying hens. Journal Animal Physiology Animal Nutrition. 2019 103(5): 1484-1491 DOI:10.1111/jpn.13156

## Línea 5. Farmacología, Fisiología y Terapéutica

1.- Estrada-San Agustín E, Gutiérrez L, Bernad M, Castillo-Juárez H, Sánchez S, Sumano H. Pharmacokinetics of two dosing forms of a recrystallized enrofloxacin as hydrochloride dihydrate in tilapia (*Oreochromis Niloticus* X *Oreochromis Mossambicus*). Aquaculture International. 2019; 27: 3 <https://doi.org/10.1007/s10499-019-00371-9>

2.- Israel Pérez-Torres, Yolanda Gutiérrez-Alvarez, Verónica Guarner-Lans, Eulises Díaz-Día, Linaloe Manzano Pech and Sara del Carmen Caballero-Chacón. Intra-Abdominal Fat Adipocyte Hypertrophy through a

Progressive Alteration of Lipolysis and Lipogenesis in Metabolic Syndrome Rats. *Nutrients*. 2019; 11: 1529. DOI: 10.3390/nu11071529

3.- Linaloe Guadalupe Manzano Pech, Sara del Carmen Caballero-Chacón, Verónica Guarner-Lans, Eulises Díaz-Díaz, Adrián Moreno Gómez and Israel Pérez-Torres. Effect of oophoros-alpingo- hysterectomy on serum antioxidant enzymes in female dogs. *Scientific Reports*. 2019; 9:674. doi. org/10.1038/s41598-019-46204-w

## Línea 6. Etología Bienestar Animal y Conservación

1.- Adriana Rivera-Huerta, María de la Salud Rubio Lozano, Alejandro Padilla-Rivera and Leonor Patricia Guereca. Social Sustainability Assessment In Livestock Production: A Social Life Cycle Assessment Approach. *Sustainability*. 2019; 1-8 DOI:10.3390/su11164419

2.- Ariadna Yanez-Pizaña, Daniel Mota-Rojas, Manuel Castillo-Rivera, Ramiro Ramirez-Necochea, Isabel Guerrero-Legarreta, Patricia Mora-Medina, Miguel Gonzalez-Lozano. Effect of environmental enrichment on weaned piglets: physiological responses. *Veterinary Medicine*. 2019;64:05.Si  
<https://doi.org/10.17221/104/2018-VETMED>

3.- Ariadna Yáñez-Pizaña, Daniel Mota-Rojas, Ramiro Ramírez-Necochea, Manuel Castillo-Rivera, Patricia Roldán-Santiago, Patricia Mora-Medina, Miguel González-Lozano. Application of infrared thermography to assess the effect of different types of environmental enrichment on the ocular, auricular pavilion and nose area temperatures of weaned piglets. *Computers And Electronics In Agriculture*. 2019;156: 33-42  
<https://doi.org/10.1016/j.compag.2018.11.010>

4.- Jesús Sotomayor-Bonilla, María José Tolsá-García, Gabriel E. García-Peña, Diego Santiago- Alarcon, Hugo Mendoza, Paulina Alvarez-Mendizabal, Oscar Rico-Chávez, Rosa Elena Sarmiento- Silva And Gerardo Suzán. Insights into the Host Specificity of Mosquito-Borne Flaviviruses Infecting Wild Mammals. *EcoHealth*. 2019; 0:01-8. <https://doi.org/10.1007/s10393-019-01442-2>

5.- Mateus Anzóla J, Wiratsadaku A, Rico-Chávez O, Ojeda Flores R. Simulation modeling of influenza transmission through backyard pig trade networks in a wildlife/livestock interface area. *Tropical Animal Health and Production*. 2019; 51:7 2019-2024 <https://doi.org/10.1007/s11250-019-01892-4>

## Línea 8. Genética

Vianey Ramírez Andoney, Amanda Gayosso Vázquez, Juan Pablo Pintor Ríos, Jorge Enrique Vázquez Buchelli and Rogelio Alejandro A. Alonso Morales. Chimeric Myostatin-Tetanic Toxin Epitopes and Heterologous Prime-boost Immunization Improve Immune Response Stimulating Muscle Growth in Mice. *Biotechnology And Bioprocess Engineering*. 2019; 24 10.1007/s12257-019-0092-8