

PRODUCTIVIDAD NUCLEO ACADEMICO BASICO DOCTORADO EN CIENCIAS BIOLÓGICAS CON ESTUDIANTES. 2017-2020

LGAC. ECOLOGÍA, CONSERVACION Y MANEJO DE RECURSOS NATURALES

Dr. Carlos Alberto López González

- Espinosa-Flores, M. E., N. E. Lara-Díaz, E. E. Sánchez y C. A. López-González. 2020. Interacción espacial y temporal entre dos mesocarnívoros en un paisaje antropizado del centro de México. *Ecosistemas y Recursos Agropecuarios* 7(1): e2089. DOI: 10.19136/era.a7n1.2089
- López González, C. A., M. G. Camargo-Aguilera, K. Uuh Saucedo, y N. E. Lara Díaz. 2019. A wandering black bear (*Ursus americanus*, Pallas 1780) in the Sierra Gorda Biosphere Reserve, Queretaro. *American Midland Naturalist* 182:252-259.
- Coronel-Arellano, H., N. E. Lara-Díaz, C. E. Moreno, C. E Gutiérrez-González, C. A. López-González. 2018. Biodiversity conservation in Sky Islands: homogeneity of medium and large sized mammals in Northwestern Mexico. *Journal of Mammalogy* 99(2):465-477. DOI:10.1093/jmammal/gyx151
- Villafaña-Trujillo, Á. J., C. A. López-González, J. M. Kolowski. 2018. Throat patch variation In Tayra (*Eira barbara*) and the potential for individual identification in the Field. *Diversity* 10(1):1-23. doi:10.3390/d10010007
- Lara-Díaz, N. E., C. A. López-González, H. Coronel-Arellano, G. Sánchez-Rojas, J. Esteban Martínez-Gómez. 2018. Activity and resource selection of a locally threatened carnivore: the case of black bears in northwestern Mexico. *Ecosphere* 9(1):1-17. DOI: 10.1002/ecs2.1923
- Camargo-Aguilera, M. G., N. E. Lara-Díaz, H. Coronel-Arellano y C. A. López-González. 2017. Un oso negro (*Ursus americanus*) conecta las grandes Sierras: evidencia genética. *Therya* 8:277-282.
- Elbroch, L. M., C. A López González, J. Fitzgerald; A. Kusler; H. Quigley. 2017. Attraction-repulsion among top predators following reintroduction efforts. *Mammalian Biology* 86:66-69.
- Gómez-Ramírez, M. A., Gutiérrez-González, C. E., López-González, C. A. 2017. Ocelots thrive in a non-typical habitat of northwestern Mexico. *Endangered Species Research* 32:471-478.
- Coronel-Arellano, H., Lara-Díaz, N. E., y López-González, C. A. 2017. Abundancia de Jaguar (*Panthera onca*) en el APFF Meseta de Cacaxtla, Sinaloa, México. *Acta Zoologica Mexicana*, 33:116-119.
- Anaya-Zamora V, López-González, C.A., Pineda-López R.F. 2017. Factores asociados al conflicto humano-carnívoro en un área natural protegida en el centro de México. *Ecosistemas y Recursos Agropecuarios*, 4(11): 381-393.
- Gutiérrez-González, C. E. y C. A. Lopez Gonzalez. 2017. Jaguar interactions with pumas and prey at the northern edge of jaguars' range. *PeerJ*. 5, p.e2886.
- Espinosa-Flores, M. E. y C. A. López González. 2017. Landscape attributes determine bobcat (*Lynx rufus esquenapae*) presence in Central México. *Mammalia* 81(1):101-106.
- Nalleli E. Lara Diaz y C. A. Lopez Gonzalez. 2017. Nuestros osos negros viven en una riesgosa matriz fragmentada. *La Jornada Ecologica* (Abril - Mayo): 15 – 16.

LGAC. SISTEMATICA Y BIODIVERSIDAD

Dr. Luis Hernández Luis Gerardo

- Quiróz-Sodi, M., S. Mendoza Díaz, L. Hernández-Sandoval (autor para correspondencia) & I. Carrillo-Ángeles. 2018. Seed secondary metabolites

characterization from nine native bean varieties (*Phaseolus vulgaris* and *P. coccineus*) under different growth conditions in Central Mexico. *Botanical Sciences* 96 (4): 650-661. (ISSN On-line: 2007-4476). DOI: <http://dx.doi.org/10.17129/botsci.1930>

Dr. Robert Jones Scheuneman

- Ramírez-Segura, Oliva, and Robert Wallace Jones. 2017. Lepidópteros Diurnos de Áreas Verdes Urbanas de Querétaro, México. *Entomología Mexicana* 4:503-508 ISSN: 2448-475X RWJ-MV3-1
- Jones, Robert W. y Erick Martínez Luque – Capítulo de Libro. Aceptado 2020 (segundo revisión) Capítulo X. Insectos. *Biodiversidad de Querétaro*, Comisión Nacional para Conocimiento y Uso de la Biodiversidad RWJ-MV3-2
- Martínez Luque, Erick Omar Martínez Luque, Robert W. Jones y Gustavo Izaguirre Gálica – Capítulo de Libro. Aceptado 2020 (segundo revisión) Capítulo X Los chapulines (Orthoptera) del matorral xerófilo. *Biodiversidad de Querétaro*, Comisión Nacional para Conocimiento y Uso de la Biodiversidad RWJ- MV3-3

Dra. Mahinda Martínez y Díaz de Salas

- Lobato-de Magalhães T. y M. Martínez. 2018. Temporary fresh water wetlands floristics in central Mexico highlands. *Botanical Sciences* ISSN digital: 2007-4476 96 (1): 1-19 DOI: 10.17129/botsci.1532
- Lobato-de Magalhães T., D. Cabrera y M. Martínez. 2019. Microsatellite loci transferability and genetic diversity of the aquatic plant *Nymphoides fallax* Ornduff (Menyanthaceae), endemic to the Mexican and Guatemalan highlands. *Limnology* 20(2): 233-241 ISSN 1439-8621 20:233-241. DOI 10.1007/s10201-019-00571-5
- Lobato-de Magalhães T. y M. Martínez. 2020. Insights into distyly and seed morphology of the aquatic plant *Nymphoides fallax* Ornduff (Menyanthaceae). *Flora* ISSN: 0367-2530 <https://doi.org/10.1016/j.flora.2019.151526>
- Lobato-de Magalhães T., Y. Rico, D. Cabrera y M. Martínez. In press. Plant functional connectivity of *Nymphoides fallax* in geographically isolated temporary wetlands in Mexican highlands *Aquatic Botany* ISSN: 03043770. <https://doi.org/10.1016/j.aquabot.2020.103215>

LGAC. BIOLOGÍA MOLECULAR, GENETICA Y EVOLUCIÓN

Dra. Karina Alethya Acevedo Whitehouse

- Farriols, M., Arellano-Carbalal, F., Elorriaga-Verplancken, F. R., Adame-Fernández, K., Garrido, E., Álvarez-Martínez, R.C., Bárcenas, R.T., Flores-Morán, A.E., Acevedo-Whitehouse, K. (2020) Filarial infections in California sea lions vary spatially within the Gulf of California, Mexico. *Parasitology Research*. 119(4):1281-1290. doi: 10.1007/s00436-020-06638-y.
- Peñín I, Figueroa-Cabañas ME, Guerrero-de la Rosa F, Soto-García LA, Álvarez-Martínez R, Flores-Morán A, Acevedo-Whitehouse K. (2019) Transcriptional Profiles of California Sea Lion Peripheral NK and CD+8 T Cells Reflect Ecological Regionalization and Infection by Oncogenic Viruses. *Frontiers in Immunology* 10:413. doi: 10.3389/fimmu.2019.00413
- Morales-Guerrero B, Gendron D, Martinez-Levasseur LM, Acevedo-Whitehouse K (2019) Blue whale, *Balaenoptera musculus*, skin contains eumelanin and pheomelanin. *Aquatic Mammals* 45: 88-98. doi: 10.1578/AM.45.1.2019.88.
- Acevedo-Whitehouse K, Cole KJ, Phillips DH, Jepson PD, Deaville R, Arlt VM (2018) Hepatic DNA damage in Harbour Porpoises (*Phocoena phocoena*) Stranded along the

- English and Welsh Coastlines. Environmental and Molecular Mutagenesis. 59:613-624.
doi: 10.1002/em.22205
- Peñin I, Levin M, Acevedo-Whitehouse K, Jasperse L, Gebhard E, Gulland FMD, De Guise S (2018) Effects of polychlorinated biphenyls (PCB) on California sea lion (*Zalophus californianus*) lymphocyte functions upon in vitro exposure. Environmental Research. doi: 10.1016/j.envres.2018.08.028
 - Domínguez-Sánchez CA, Acevedo-Whitehouse K, Gendron D. (2018) Effect of Drone-based blow sampling on blue whale (*Balaenoptera musculus*) behaviour. Marine Mammal Science 34: 841-850. doi: 10.1111/mms.12482
 - Espinosa-de Aquino W, Bailey M, Acevedo-Whitehouse K (2017) Changes in mucosal and serum immunoglobulin levels of California sea lions during early development. Developmental and Comparative Immunology 77: 166e173. <http://dx.doi.org/10.1016/j.dci.2017.08.006>
 - Flores-Morán A, Banuet-Martínez A, Elorriaga-Verplancken FR, García-Ortuño LE, Sandoval-Sierra J, Acevedo-Whitehouse K (2017) Atypical red blood cells are prevalent in California sea lion pups born during anomalous sea surface temperature events. Physiological and Biochemical Zoology 90: 564-574. <https://doi.org/10.1086/692919>
 - Banuet-Martínez M, Espinosa-de Aquino W, Elorriaga-Verplancken FR, Flores-Morán A, García OP, Camacho M, Acevedo-Whitehouse K (2017) Climatic anomaly affects the immune competence of California sea lions. PLoS One 12(6): e0179359. <https://doi.org/10.1371/journal.pone.0179359>
 - Morales-Guerrero B, Barragán-Vargas C, Silva-Rosales GR, Ortega-Ortiz CD, Gendron D, Martínez-Levasseur LM, Acevedo-Whitehouse K (2017). Melanin granules melanophages and a fully-melanized epidermis are common traits of odontocete and mysticete cetaceans. Veterinary Dermatology 28:213-218. doi: 10.1111/vde.12392
 - Espinosa-de Aquino W, Olvera-Ramírez A, Arellano-Carbajal F, Lanz-Mendoza H, Villagrán-Herrera E, Acevedo-Whitehouse K (2017). Protein and RNA extraction from mucosal swabs: a minimally invasive source of ecological data for studies of natural populations. Methods in Ecology and Evolution 8:370-378 doi: 10.1111/2041-210X.12680

Dr. Fausto Arellano Carbajal

- Espino-Saldaña AE, Durán-Ríos K, Olivares-Hernandez E, Rodríguez-Ortíz B, Arellano-Carbajal F, Martínez-Torres A. 2020. Temporal and spatial expression of zebrafish mctp genes and evaluation of frameshift alleles of mctp2b. Gene. 2020 Jan 27:144371. doi: 10.1016/j.gene.2020.144371.
- López-Puebla A, Mayoral-Peña Z, Kitzia Gómez-Cepeda K, Arellano-Carbajal F. 2019. *C. elegans* daf-7 mutants exhibit burrowing behaviour. microPublication Biology. 10.17912/micropub.biology.000172. doi: 10.17912/micropub.biology.000172.
- Piña-Vázquez DM, Mayoral-Peña Z, Gómez-Sánchez M, Salazar-Olivio LA, Arellano-Carbajal F. 2017. Anthelmintic effect of Psidium guajava and Tagetes erecta on wild-type and Levamisole-resistant *Caenorhabditis elegans* strains. Journal of Ethnopharmacology 202: 92-96. doi: 10.1016/j.jep.2017.03.004.
- Espinosa de Aquino W, Olvera-Ramírez A, Arellano-Carbajal F, Lanz-Mendoza H, Villagrán-Herrera E, Acevedo-Whitehouse K. 2017. Protein and RNA extraction from mucosal swabs: a minimally invasive source of ecological data for studies of natural populations. Methods in Ecology and Evolution 8(3):370-378. <https://doi.org/10.1111/2041-210X.12680>
- Mayoral-Peña Z, Piña-Vázquez DM, Gómez-Sánchez M, Salazar-Olivio LA, Aguilar-Tipacamú G, Arellano-Carbajal F. 2017. The nematode *Caenorhabditis elegans* as a model to assess the anthelmintic potential from plant extracts. Revista Mexicana de

Dra. Margarita Teresa de Jesús García Gasca

- Cervantes-Jiménez R, Sánchez-Segura L, Estrada-Martínez LE, Topete-Camacho A, Mendiola-Olaya E, Rosas-Escareño AN, Saldaña-Gutiérrez C, Figueroa-Cabañas ME, Dena-Beltrán JL, Kuri-García A, Blanco-Labra A, García-Gasca T. 2020. Quantum Dot Labelling of Tepary Bean (*Phaseolus acutifolius*) Lectins by Microfluidics. *Molecules*. 25 1041; doi:10.3390/molecules25051041.
- Moreno-Celis U, López-Martínez FJ, Cervantes-Jiménez R, Ferríz-Martínez RA, Blanco-Labra A, García-Gasca T. 2020. Tepary Bean (*Phaseolus acutifolius*) Lectins Induce Apoptosis and Cell Arrest in G0/G1 by P53(Ser46) Phosphorylation in Colon Cancer Cells. *Molecules* 25 1021; doi:10.3390/molecules25051021.
- Karla Lucero Flores-Viveros, Beatriz Adriana Aguilar-Galarza, María Luisa Ordóñez-Sánchez, Miriam Aracely Anaya-Loyola, Ulisses Moreno-Celis, Paola Vázquez-Cárdenas, Teresa García-Gasca. 2019. Contribution of Genetic, Biochemical and Environmental Factors on Insulin Resistance and Obesity in Mexican Young Adults. *Obesity Research and Clinical Practice*. 13(6):533-540
<https://doi.org/10.1016/j.orcp.2019.10.012>
- Kuri-Garcia A, González-Reyes A, Aranda-Vargas P, Moreno-Celis U, Mejía C, García-Gasca T, Ferriz-Martínez RA, De la Torre-Carbot K, Carlos Saldaña-Gutiérrez, Chávez-Servín JL. 2019. Effect on nutritional markers of a model of aberrant crypt foci induced by azoxymethane and sodium dextran sulfate in Sprague Dawley rats. *Nutrición Hospitalaria*. 36(5):1163-1170 DOI: <http://dx.doi.org/10.20960/nh.02600>
- Octavio Roldán-Padrón, José Luis Castro-Guillén, José Alejandro García-Arredondo, Martha Sandra Cruz-Pérez, Luis Fernando Díaz-Peña, Carlos Saldaña 1, Alejandro Blanco-Labra, Teresa García-Gasca. 2019. Snake Venom Hemotoxic Enzymes: Biochemical Comparison between *Crotalus* Species from Central Mexico. *Molecules*. 24, 1489; doi:10.3390/molecules24081489
- Aarón Kuri-García, Rosa Iris Godínez-Santillán, Carmen Mejía, Roberto Augusto Ferriz-Martínez, Pablo García-Solís, Alejandro Enríquez-Vázquez, Teresa García-Gasca, Salvador Horacio Guzmán-Maldonado, Jorge Luis Chávez-Servín. 2019. Preventive effect of an infusion of the aqueous extract of Chaya leaves 2 (*Cnidoscolus aconitifolius*) in an aberrant crypt foci rat model induced by 3 azoxymethane and dextran sulfate sodium. *Journal of Medicinal Food*. 22(8):851-860 DOI: 10.1089/jmf.2019.0031
- Alatorre-Cruz JM, Pita-López W, López-Reyes RG, Ferriz-Martínez RA, Cervantes-Jiménez R, Guerrero Carrillo MJ, Aranda Vargas PJ, López-Herrera G, Rodríguez-Méndez AJ, Zamora-Arroyo A, Gutiérrez-Sánchez H, Reis de Souza T, Blanco-Labra A, García-Gasca T. 2018. Effects of intragastrically-administered Tepary bean lectins on digestive and immune organs: preclinical evaluation. *Toxicology Reports*. 5:56-64 doi: 10.1016/j.toxrep.2017.12.008
- Moreno-Celis U, López-Martínez J, Blanco-Labra A, Cervantes-Jiménez R, Estrada-Martínez LA, García-Pascalin AE, Guerrero-Carrillo MJ, Rodríguez-Méndez AJ, Mejía C, Ferríz-Martínez RA, García-Gasca T. 2017. *Phaseolus acutifolius* Lectin Fractions Exhibit Apoptotic Effects on Colon Cancer: Preclinical Studies Using Dimethylhydrazine or Azoxi-Methane as Cancer Induction Agents. *Molecules*. 22, 1670; doi:10.3390/molecules22101670
- Estrada-Martínez LA, Moreno-Celis U, Cervantes-Jiménez R, Ferriz-Martínez RA, Blanco-Labra A, García-Gasca T. 2017. Plant Lectins as Medical Tools against Digestive System Cancers. *Int. J. Mol. Sci.* 18:1403. doi:10.3390/ijms18071403

- Reyes-Márquez R, Aguilar-Galarza BA, Anaya-Loyola MA, Moreno-Celis U, Elton-Puente JE, Lloret M, Sosa-Ferreyyra CF, García-Gasca T. 2017. Metabolic alterations in Mexican young adults: sensitivity and specificity approaches between anthropometric parameters and biochemical markers. *Journal of Obesity and Weight Management*. ISSN. 2165-7904. DOI:10.13140/RG.2.2.15688.21762
- Castro-Ruiz JE, Rojas-Molina A, Luna-Vázquez FJ, Rivero-Cruz F, García-Gasca T, Ibarra-Alvarado C. 2017. Affinin (spilanthol), isolated from *Heliopsis longipes*, induces vasodilation via activation of gasotransmitters and prostacyclin signaling pathways. *International Journal of Molecular Sciences*. 18:218. doi:10.3390/ijms18010218

LGAC. INMUNOLOGÍA, MICROBIOLOGÍA Y SALUD

Dr. Germinal Jorge Cantó Alarcón

- Perea C, Milián F, Bárcenas I, Sosa S, Rodríguez E, Flores S, Cantó G. Whole genome sequencing for detection of zoonotic tuberculosis in Queretaro, México. *J. of Infect. Dis. and Prev. Med.* 5 (2): 1-5. 2017. DOI:10.4172/2329-8731.1000158.
- Perea Razo C, Elba Rodríguez Hernández, Sergio Iván Román Ponce, Feliciano Milián Suazo, Suelee Robbe-Austerman, Tod Stuber, Germinal Jorge Canto Alarcon* Molecular epidemiology of cattle tuberculosis in Mexico through whole-genome sequencing and spoligotyping. *PLOS ONE* | <https://doi.org/10.1371/journal.pone.0201981> August 23, 2018.
- Godínez EM, Veyna NP, Olvera AM, Milián F, Perea CA, Cantó GJ. Prevalence and zoonotic potential of *Giardia intestinalis* in dogs of the central region in Mexico. *Animals*. 9(325): 1-13. 2019 <https://doi.org/10.3390/ani9060325>
- Verdugo Escárcega D, Claudia Angélica Perea Razo, Sara González Ruiz, Susana Lucia Sosa Gallegos, Feliciano Milián Suazo, Germinal Jorge Cantó Alarcón. Analysis of bovine tuberculosis transmission in Jalisco, Mexico through whole-genome sequencing. *J Vet Res* 64, 2020. DOI:10.2478/jvetres-2020-0010

Dr. Juan Joel Mosqueda Gualito

- Mario Hidalgo-Ruiz, Carlos E. Suarez, Miguel A. Mercado-Uriostegui, Ruben Hernandez-Ortiz, Juan Alberto Ramos, Edelmira Galindo-Velasco, Gloria León-Ávila, José Manuel Hernández and Juan Mosqueda. Babesia bovis RON2 contains conserved B-cell epitopes that induce an invasion-blocking humoral immune response in immunized cattle. *Parasites & Vectors*. November 3, 2018. 11:575. <https://doi.org/10.1186/s13071-018-3164-2>.
- Dante Barreda, Mario Hidalgo-Ruiz, Ruben Hernandez-Ortiz, Juan Alberto Ramos, Edelmira Galindo-Velasco and Juan Mosqueda. Identification of conserved peptides containing B-cell epitopes of Babesia bovis AMA-1 and their potential as diagnostics candidates. *Transboundary and Emerging Diseases*. April 23, 2019. 00:1-9. <https://doi.org/10.1111/tbed.13213>.
- Juan Mosqueda, Mario Hidalgo-Ruiz, Diana Alexandra Calvo-Olvera, Diego Josimar Hernandez-Silva, Massaro Wilson Ueti, Miguel Angel Mercado-Uriostegui, Angelina Rodriguez, Juan Alberto Ramos-Aragon, Ruben Hernandez-Ortiz, Shin-ichiro Kawazu and Ikuro Igarashi. RON2, a novel gene in Babesia bigemina, contains conserved, immunodominant B-cell epitopes that induce antibodies that block merozoite invasion. *Parasitology* September 13, 2019: 146(13): 1643-1654. <https://doi.org/10.1017/S0031182019001161>.
- Genome-based vaccinology applied to Bovine babesiosis. Autores: Juan Mosqueda, Diego Josimar Hernández-Silva y Mario Hidalgo-Ruiz. Libro: Farm Animals Diseases, Recent Omic Trends and New Strategies of Treatment. Autor: Rosa Estela Quiroz-Castañeda. Editorial: IntechOpen. ISBN 978-953-51-3912-6, Print ISBN

9789535139119. Published: March 21, 2018. pp: 65- 81.

<http://dx.doi.org/10.5772/intechopen.72636>.

- Pérez-Soria MME, Hernández-Silva DJ, Mosqueda Juan. Analysis of the allelic variability of BmVDAC and Subolesin, two vaccine candidates against *Rhipicephalus microplus* in isolates from Mexico. *Nova Scientia*. Nº 23, Vol. 11 (2), 2019. ISSN 2007 – 0705, pp.: 126 – 142. doi.org/10.21640/ns.v11i23.1964.
- Diego Josimar Hernández-Silva, Uriel Mauricio Valdez-Espinoza, Miguel Angel Mercado-Uriostegui, Gabriela Aguilar-Tipacamú, Juan Alberto Ramos-Aragón, Ruben Hernández-Ortiz, Massaro Ueti, Juan Mosqueda. Immunomolecular characterization of MIC-1, a novel antigen in Babesia bigemina, which contains conserved and immunodominant B-cell epitopes that induce neutralizing antibodies. *Veterinary Sciences*, March 23, 2018, 5(32):1-12. https://doi.org/10.3390/vetsci5020032.
- Diego Josimar Hernández-Silva, Uriel Mauricio Valdez-Espinoza, Miguel Angel Mercado-Uriostegui, Gabriela Aguilar-Tipacamú, Juan Alberto Ramos-Aragón, Ruben Hernández-Ortiz, Massaro Ueti, Juan Mosqueda. Immunomolecular characterization of MIC-1, a novel antigen in Babesia bigemina, which contains conserved and immunodominant B-cell epitopes that induce neutralizing antibodies. *Veterinary Sciences*, March 23, 2018, 5(32):1-12. https://doi.org/10.3390/vetsci5020032.
- Minerva Camacho-Nuez, Diego Josimar Hernández-Silva, Elizabeth Jacqueline Castañeda-Ortiz, María Elena Paredes-Martínez, Marisol Karina Rocha Martínez, María Elizabeth Alvarez-Sánchez, Ricardo Mercado-Curiel, Gabriela Aguilar-Tipacamú, Juan Mosqueda. Hap2, a novel gene in Babesia bigemina is expressed in tick stages and specific antibodies block zygote formation. *Parasites & Vectors*. 2017. 10:568 DOI 10.1186/s13071-017-2510-0.
- Juan Mosqueda, Mario Hidalgo-Ruiz, Diana Alexandra Calvo-Olvera, Diego Josimar Hernandez-Silva, Massaro Wilson Ueti, Miguel Angel Mercado-Uriostegui, Angelina Rodriguez, Juan Alberto Ramos-Aragon, Ruben Hernandez-Ortiz, Shin-ichiro Kawazu and Ikuro Igarashi. RON2, a novel gene in Babesia bigemina, contains conserved, immunodominant B-cell epitopes that induce antibodies that block merozoite invasion. *Parasitology* September 13, 2019: 146(13): 1643-1654. <https://doi.org/10.1017/S0031182019001161>.
- Genome-based vaccinology applied to Bovine babesiosis. Autores: Juan Mosqueda, Diego Josimar Hernández-Silva y Mario Hidalgo-Ruiz. Libro: Farm Animals Diseases, Recent Omic Trends and New Strategies of Treatment. Autor: Rosa Estela Quiroz-Castañeda. Editorial: IntechOpen. ISBN 978-953-51-3912-6, Print ISBN 9789535139119. Published: March 21, 2018. pp: 65- 81. <http://dx.doi.org/10.5772/intechopen.72636>.
- Pérez-Soria MME, Hernández-Silva DJ, Mosqueda Juan. Analysis of the allelic variability of BmVDAC and Subolesin, two vaccine candidates against *Rhipicephalus microplus* in isolates from Mexico. *Nova Scientia*. Nº 23, Vol. 11 (2), 2019. ISSN 2007 – 0705, pp.: 126 – 142. doi.org/10.21640/ns.v11i23.1964.
- Reyna Ortega-Sánchez, Minerva Camacho-Nuez, Jacqueline Elizabeth Castañeda-Ortíz, Máximo Berto Martínez-Benítez, Diego Josimar Hernández-Silva, Gabriela Aguilar-Tipacamú, and Juan Mosqueda. Vaccine efficacy of recombinant BmVDAC on *Rhipicephalus microplus* fed on Babesia bigemina-infected and uninfected cattle. *Vaccine*. January 2020.
- Diego Josimar Hernández-Silva, Uriel Mauricio Valdez-Espinoza, Miguel Angel Mercado-Uriostegui, Gabriela Aguilar-Tipacamú, Juan Alberto Ramos-Aragón, Ruben Hernández-Ortiz, Massaro Ueti, Juan Mosqueda. Immunomolecular characterization of MIC-1, a novel antigen in Babesia bigemina, which contains conserved and immunodominant B-cell epitopes that induce neutralizing antibodies. *Veterinary Sciences*, March 23, 2018, 5(32):1-12. https://doi.org/10.3390/vetsci5020032.

- Mario Hidalgo-Ruiz, Carlos E. Suarez, Miguel A. Mercado-Uriostegui, Ruben Hernandez-Ortiz, Juan Alberto Ramos, Edelmira Galindo-Velasco, Gloria León-Ávila, José Manuel Hernández and Juan Mosqueda. Babesia bovis RON2 contains conserved B-cell epitopes that induce an invasion-blocking humoral immune response in immunized cattle. *Parasites & Vectors*. November 3, 2018. 11:575.
<https://doi.org/10.1186/s13071-018-3164-2>.
- Juan Mosqueda, Mario Hidalgo-Ruiz, Diana Alexandra Calvo-Olvera, Diego Josimar Hernandez-Silva, Massaro Wilson Ueti, Miguel Angel Mercado-Uriostegui, Angelina Rodriguez, Juan Alberto Ramos-Aragon, Ruben Hernandez-Ortiz, Shin-ichiro Kawazu and Ikuro Igarashi. RON2, a novel gene in Babesia bigemina, contains conserved, immunodominant B-cell epitopes that induce antibodies that block merozoite invasion. *Parasitology* September 13, 2019: 146(13): 1643-1654.
<https://doi.org/10.1017/S0031182019001161>.

Dr. Feliciano Milián Suazo

- Ricardo E. Ahumada-Cota, Ulises Hernandez-Chiñas,* Feliciano Milián-Suazo, María E. Chávez-Berrocal, Armando Navarro-Ocaña, Daniel Martínez-Gómez, Genaro Patiño-López, Erika P. Salazar-Jiménez, and Carlos A. Eslava,* Effect and analysis of bacterial lysates for the treatment or recurrent urinary tract infections in adults. *Pathogens*. 2020 9, 102, 1-13. Doi.10.3390/pathogens9020102
- Bárceñas-Reyes, DP Nieves-Martínez, JQ Cuador-Gil, E Loza-Rubio, S González-Ruiz, GJ Canto-Alarcon, Feliciano Milian Suazo. Spatiotemporal analysis for rabies in cattle in central Mexico. 2019. *Geospatial Health* 2019; Volume 14:805: 247-253 doi:10.4081/gh.2019.805
- González-Ruiz S, Strillacci MG, Durán-Aguilar M, Cantó-Alarcón GJ, Herrera-Rodríguez SE, Bagnato A, Guzmán LF, Milián-Suazo F, Román-Ponce SI. 2018. Genome-wide association study in Mexican Holstein reveals novel QTL regions and confirms mapped loci for resistance to bovine tuberculosis. *Animals* 2019, 636; doi:10.3390/ani9090636.
- Sara González-Ruiz1., Susana L. Sosa-Gallegos2., Elba Rodríguez-Hernández3., Susana Flores-Villalba3., Sergio I. Román-Ponce3., Isabel Bárceñas-Reyes2, Germinal J. Cantó-Alarcón2., Feliciano Milián-Suazo. Genetic diversity of *Mycobacterium bovis* in Jalisco, Mexico: Tracing back sources of infection, 2018. *Open Journal of Veterinary Medicine and Animal Health*. Vo. 10(5), pp. 114-122
- Gonzalez Ruíz Sara, Cantó A Germinal Jorge, Román Ponce Sergio I, Rodríguez Hernández Elba, Flores Villalva Susana. Milián Suazo Feliciano. Resistencia Natural contra la tuberculosis en ganado lechero: revisión. 2018. *Revista Mexicana de Ciencias Pecuarias* Vol 9, No. 2. Pp 328-345.
- Barcenas-Reyes Isabel, Loza-Rubio E2, Cantó-Alarcón JG1*, Luna-Cozar Jesús1Enríquez-Vázquez A3, Barrón-Rodríguez RJ, Milián-Suazo Feliciano. Whole Genome Sequence phylogenetic analysis of four Mexican rabies viruses isolated from cattle. *Research in Veterinary Science*. 113 (2017) 21-24.
<http://dx.doi.org/10.1016/j.rvsc.2017.08.004>.

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Dra. Olga P. García Obregón

- Zavala GA, García OP, Camacho M, Ronquillo D, Campos-Ponce M, Doak C, Polman K, Rosado JL. Intestinal parasites: associations with intestinal and systemic inflammation. *Parasite Immunol*. 2018;40(4):e12518. doi: 10.1111/pim.12518. [Epub ahead of print] (ISSN: 1365-3024).

- Zacarías G, Shamah-Levy T, Elton-Puente E, Garbus P, García OP. Development of an intervention program to prevent childhood obesity targeted to Mexican mothers of school-aged children using intervention mapping and social cognitive theory. *Eval and Program Plann.* 2019;74:27-37. doi: doi.org/10.1016/j.evalprogplan.2019.02.008 (ISSN: 0149-7189).
- Aguilar T, Nava GM, Olvera-Ramírez AM, Ronquillo D, Camacho M, Zavala GA, Caamaño MC, Acevedo-Whitehouse K, Rosado JL, García OP. Gut bacterial families are associated with body composition and metabolic risk markers in school-aged children in rural Mexico. *Child Obes.* 2020 May 19. doi: 10.1089/chi.2019.0312. Online ahead of print.

Dra. Tércia Cesária Reis de Souza

- José Guadalupe Gómez Soto, Tércia Cesária Reis de Souza, Gerardo Mariscal Landin, Araceli Aguilera Barreyro, María Guadalupe Bernal Santos and Konisimar Escobar García. 2018. Gastrointestinal morphophysiology and presence of kafirins in ileal digesta in growing pigs fed sorghum-based diets. *J. Appl. Anim. Res.* 46 (1): 618–625. <https://doi.org/10.1080/09712119.2017.1371607> <http://www.tandfonline.com/loi/taar20>. ISSN: 0971-2119 (Print) 0974-1844 (Online).
- Domínguez-Negrete, A., Gómez-Rosales, S., Angeles, M. D. L., López-Hernández, L. H., Reis-de Souza, T. C., López-García, Y., Zavala-Franco, A. and Téllez-Isaias, G. 2019. Effect of the Addition of Humic Substances as Growth Promoter in Broiler Chickens Under Two Feeding Regimens. *Animals*, 9(12), 1101: 1-15. <https://doi.org/10.3390/ani9121101>. ISSN 2076-2615
- S. Bautista-Marín, K. Escobar-García, C. Molina-Aguilar, G. Mariscal-Landín, A. Aguilera-Barreyro, M. Díaz-Muñoz, T.C. Reis de Souza. 2020. Antibiotic-free diet supplemented with live yeasts decreases inflammatory markers in the ileum of weaned piglets. *South African Journal of Animal Science* 2020, 50 (No. 3): 353-365. <http://dx.doi.org/10.4314/sajas.v50i3.2>. URL: <http://www.sasas.co.za>. ISSN 0375-1589 (print), ISSN 2221-4062 (online). Publisher: South African Society for Animal Science

Dr. Jorge Luis Rosado Loría

- Caamaño MC, Garcia-Padilla S, Duarte-Vazquez MA, Gonzalez Romero KE, Rosado JL. A Double-Blind, Active-Controlled Clinical Trial of sodium bicarbonate and calcium gluconate in the treatment of bilateral osteoarthritis of the knee. *Clin Med Insights Arthritis Musculoskelet Disord* 2017;1-7.
- Zavala GA, Rosado JL, Doak CM, Caamaño MC, Campos-Ponce M, Ronquillo D, Polman K, Garcia OP. Energy and food intake are associated specific intestinal parasitic infections in children of rural Mexico. *Parasitol Int.* 2017; 66(6): 831-836.
- Oropeza-Ceja LG, Rosado JL, Ronquillo D, García OP, Caamaño MC, García-Ugalde C, Viveros-Contreras R, Duarte-Vázquez MA, Lower Protein Intake Supports Normal Growth of Full-Term Infants Fed Formula: A Randomized Controlled Trial. *Nutrients* 2018; 10 (7): e886.
- Caamano MC, Palacios Jorge R, Paras Pablo, Rosado JL. Desarrollo y validación de escalas para medir el valor que las mujeres dan a la saciedad y a la alimentación: un factor crítico para el tratamiento de la obesidad. *Arch. LatAm Nutr* 2018 68:141-151.
- Trujillo- Cardenas L, Camacho M, Cano S, Duarte MA, Viveros R, Rosado JL. Development of an infant formula high in alpha – lactalbumin with only A2 beta-caseina by spray drying, designed to resemble the protein composition of human milk. *Rev. Mex. de Ing.Quim;*2019 18(1) 151-165.

- Caamaño MC, Rosado JL, Propuesta de un cambio urgente de enfoque hacia la mercadotecnia social para prevenir la obesidad en las familias mexicanas. Salud Públ Méx, 2019 (61):1-2.
- Caamano MC, Garcia OP, Paras P, Palacios J, Rosado JL. Overvaluation of eating and satiation explains the association of food insecurity and food intake with obesity and Cardio metabolic Diseases. Food & Nutr Bull 2019; 40(4):432-443.