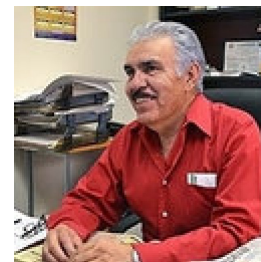


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Research Interests

LÍNEA DE INVESTIGACIÓN

Research outputs

Diversity and bacterial succession of a phototrophic biofilm used as complementary food for shrimp raised in a super-intensive culture

Ortiz-Estrada, Á. M., Gollas-Galván, T., Martínez-Córdova, L. R., Burgos-Hernández, A., Scheuren-Acevedo, S. M., Emerenciano, M. & Martínez-Porchas, M., 15 Apr 2019, In : *Aquaculture International*. 27, 2, p. 581-596 16 p.

Inferring the functional properties of bacterial communities in shrimp-culture bioflocs produced with amaranth and wheat seeds as fouler promoters

Vargas-Albores, F., Martínez-Córdova, L. R., Gollas-Galván, T., Garibay-Valdez, E., Emerenciano, M. G. C., Lago-Leston, A., Mazorra-Manzano, M. & Martínez-Porchas, M., 1 Feb 2019, In : *Aquaculture*. p. 107-117 11 p.

Amaranth and wheat grains tested as nucleation sites of microbial communities to produce bioflocs used for shrimp culture

Martínez-Córdova, L. R., Vargas-Albores, F., Garibay-Valdez, E., Ortiz-Estrada, Á. M., Porchas-Cornejo, M. A., Lago-Lestón, A. & Martínez-Porchas, M., 1 Dec 2018, In : *Aquaculture*. p. 503-509 7 p.

Functional metagenomics: a tool to gain knowledge for agronomic and veterinary sciences

Vargas-Albores, F., Martínez-Córdova, L. R., Martínez-Porchas, M., Calderón, K. & Lago-Lestón, A., 17 Sep 2018, In : *Biotechnology and Genetic Engineering Reviews*. p. 1 27 p.

Nutritional effect of *Artemia nauplii* enriched with *Tetraselmis suecica* and *Chaetoceros calcitrans* microalgae on growth and survival on the river prawn *Macrobrachium americanum* larvae

Méndez-Martínez, Y., García-Guerrero, M. U., Lora-Vilchis, M. C., Martínez-Córdova, L. R., Arcos-Ortega, F. G., Alpuche, J. J. & Cortés-Jacinto, E., 1 Aug 2018, In : *Aquaculture International*. p. 1001-1015 15 p.

Effect of different ratios of dietary protein-energy on growth, body proximal composition, digestive enzyme activity, and hepatopancreas histology in *Macrobrachium americanum* (Bate, 1868) prawn juveniles

Méndez-Martínez, Y., García-Guerrero, M. U., Arcos-Ortega, F. G., Martínez-Córdova, L. R., Yamasaki-Granados, S., Pérez-Rodríguez, J. C. & Cortés-Jacinto, E., 2 Feb 2018, In : *Aquaculture*. p. 1-11 11 p.

Chemical characterization and antioxidant activity of sulfated polysaccharides from *Navicula* sp.

Fimbres-Olivarria, D., Carvajal-Millan, E., Lopez-Elias, J. A., Martinez-Robinson, K. G., Miranda-Baeza, A., Martinez-Cordova, L. R., Enriquez-Ocaña, F. & Valdez-Holguin, J. E., 1 Feb 2018, In : *Food Hydrocolloids*. p. 229-236 8 p.

Biofilm consumption shapes the intestinal microbiota of shrimp (*Penaeus vannamei*)

Garibay-Valdez, E., Martínez-Córdova, L. R., Vargas-Albores, F., Gollas-Galván, T., Lago-Leston, A., Calderón, K. & Martínez-Porchas, M., 1 Jan 2018, (Accepted/In press) In : *Aquaculture Nutrition*.

Detection of the white spot syndrome virus in zooplankton samples collected off the coast of Sonora, Mexico

Porchas-Cornejo, M. A., Álvarez-Ruiz, P., Álvarez-Tello, F. J., Martínez-Porchas, M., Martínez-Córdova, L. R., López-Martínez, J. & García-Morales, R., 1 Jan 2018, In : *Aquaculture Research*. p. 48-56 9 p.

Functional metagenomics: a tool to gain knowledge for agronomic and veterinary sciences

Vargas-Albores, F., Martínez-Córdova, L. R., Martínez-Porchas, M., Calderón, K., Lago-Lestón, A. & Calderon Alvarado, K. D. C., 1 Jan 2018, In : *Biotechnology and Genetic Engineering Reviews*.

Predictive functional profiles using metagenomic 16S rRNA data: A novel approach to understanding the microbial ecology of aquaculture systems

Ortiz-Estrada, Á. M., Gollas-Galván, T., Martínez-Córdova, L. R. & Martínez-Porchas, M., 1 Jan 2018, In : Reviews in Aquaculture.

Proteomic profiling of integral membrane proteins associated to pathogenicity in *Vibrio parahaemolyticus* strains

Pérez-Acosta, J. A., Martínez-Porchas, M., Elizalde-Contreras, J. M., Leyva, J. M., Ruiz-May, E., Gollas-Galván, T., Martínez-Córdova, L. R. & Huerta-Ocampo, J. Á., 1 Jan 2018, In : Microbiology and Immunology. p. 14-23 10 p.

Bacterial biota of shrimp intestine is significantly modified by the use of a probiotic mixture: a high throughput sequencing approach

Vargas-Albores, F., Porchas-Cornejo, M. A., Martínez-Porchas, M., Villalpando-Canchola, E., Gollas-Galván, T. & Martínez-Córdova, L. R., 1 Dec 2017, In : Helgoland Marine Research.

High-resolution detection of bacterial profile of ocean water, before and after being used by shrimp farms

Porchas-Cornejo, M. A., Martínez-Porchas, M., Vargas-Albores, F., Gollas-Galvan, T., Martínez-Córdova, L. R., Vazquez-Euan, R. & Peña-Messina, E., 1 Oct 2017, In : Aquaculture International. p. 1833-1843 11 p.

Survival of *Litopenaeus vannamei* shrimp fed on diets supplemented with *Dunaliella* sp. is improved after challenges by *Vibrio parahaemolyticus*

Medina Félix, D., López Elías, J. A., Campa Córdova, Á. I., Martínez Córdova, L. R., Luna González, A., Cortes Jacinto, E., Huerta Aldaz, N., Cano Mendoza, F. & Burboa Zazueta, M. G., 1 Sep 2017, In : Journal of Invertebrate Pathology. p. 118-123 6 p.

From microbes to fish the next revolution in food production

Martínez-Córdova, L. R., Martínez-Porchas, M., Emerenciano, M. G. C., Miranda-Baeza, A. & Gollas-Galván, T., 3 Apr 2017, In : Critical Reviews in Biotechnology. p. 287-295 9 p.

Effect of dietary protein content on growth rate, survival and body composition of juvenile cauque river prawn, *Macrobrachium americanum* (Bate 1868)

Méndez-Martínez, Y., Yamasaki-Granados, S., García-Guerrero, M. U., Martínez-Córdova, L. R., Rivas-Vega, M. E., Arcos-Ortega, F. G. & Cortés-Jacinto, E., 1 Mar 2017, In : Aquaculture Research. p. 741-751 11 p.

Larval and post-larval growth, spat production and off-bottom cultivation of the smooth venus clam *Chionista fluctifraga*

Castillo-Durán, A., Hoyos-Chairez, F., Arreola-Lizárraga, J. A., Martínez-Córdova, L. & Chávez-Villalba, J., 1 Sep 2016, In : Aquaculture Research. p. 2851-2860 10 p.

***Navicula* sp. Sulfated polysaccharide gels induced by Fe(III): Rheology and microstructure**

Fimbres-Olivarria, D., López-Elías, J. A., Carvajal-Millán, E., Márquez-Escalante, J. A., Martínez-Córdova, L. R., Miranda-Baeza, A., Enríquez-Ocaña, F., Valdéz-Holguín, J. E. & Brown-Bojórquez, F., 1 Aug 2016, In : International Journal of Molecular Sciences.

Physiological and immune response of *Litopenaeus vannamei* undergoing the acute phase of the necrotizing hepatopancreatitis disease and after being treated with oxytetracycline and FF

Martínez-Córdova, L. R., Gollas-Galván, T., Garibay-Valdez, E., Valenzuela-Gutiérrez, R., Martínez-Porchas, M., Porchas-Cornejo, M. A., Sánchez-Paz, A. & Mendoza-Cano, F., 1 Jul 2016, In : Latin American Journal of Aquatic Research. p. 525-534 10 p.

Development of a Model to Simulate Nitrogen Dynamics in an Integrated Shrimp-Macroalgae Culture System with Zero Water Exchange

Sánchez-Romero, A., Miranda-Baeza, A., Rivas-Vega, M. E., López-Elías, J. A., Martínez-Córdova, L. R. & Tejeda-Mansir, A., 1 Feb 2016, In : Journal of the World Aquaculture Society. p. 129-138 10 p.

Physiological and sanitary condition of the white clam *Dosinia ponderosa* collected from a coastal area impacted by shrimp farm effluent

Martínez-Porchas, M., Scheuren-Acevedo, S. M., Martínez-Córdova, L. R., Gollas-Galvan, T., Barraza-Guardado, R. H., Enríquez-Ocaña, F., Cortés-Jacinto, E. & Porchas-Cornejo, M. A., 1 Feb 2016, In : *Aquaculture International*. p. 243-256 14 p.

Physical and chemical characteristics of lyophilized biofloc produced in whiteleg shrimp cultures with different fishmeal inclusion into the diets

Arias-Moscoso, J. L., Cuevas-Acuña, D. A., Rivas-Vega, M. E., Martínez-Córdova, L. R., Osuna-Amarilas, P. & Miranda-Baeza, A., 1 Jan 2016, In : *Latin American Journal of Aquatic Research*. p. 769-778 10 p.

Effect of the addition of an aqueous extract of the San Pedro Daisy *Lasianthaea podocephala*, in the culture of the Pacific white shrimp, *Litopenaeus vannamei*, under laboratory conditions

Villanueva-Gutiérrez, E., Martínez-Córdova, L. R., Martínez-Porchas, M. & Arvayo, M. A., 1 Nov 2015, In : *Latin American Journal of Aquatic Research*. p. 904-911 8 p.

Inclusion of two differently pH-autolysis hydrolysates of squid coproduct in diets of shrimp cultured under indoor and outdoor conditions

Arias-Moscoso, J. L., Ezquerro-Brauer, M., Martínez-Córdova, L. R., Martínez-Porchas, M. & Moreno-Arias, A., 1 Jan 2015, In : *Aquaculture Nutrition*. p. 750-754 5 p.

Microbial-based systems for aquaculture of fish and shrimp: An updated review

Martínez-Córdova, L. R., Emerenciano, M., Miranda-Baeza, A. & Martínez-Porchas, M., 1 Jan 2015, In : *Reviews in Aquaculture*. p. 131-148 18 p.

Las amenazas exóticas a la industria ostrícola del Golfo de California.

Enríquez-Espinoza, T. L., Grijalva Chon, J. M., Castro Longoria, R., López Torres, M. A., Chávez-Villalba, J. & Martínez Córdova, L. R., 2015, *Panorama Acuicola Magazine*, 20, 4, p. 34-40.

Gene expression responses of white shrimp (*Litopenaeus vannamei*) infected with necrotizing hepatopancreatitis bacterium

Figueroa-Pizano, M. D., Peregrino-Uriarte, A. B., Yepiz-Plascencia, G., Martínez-Porchas, M., Gollas-Galván, T. & Martínez-Córdova, L. R., 15 Jan 2014, In : *Aquaculture*. p. 165-170 6 p.

Bio-filtration capacity, oxygen consumption and ammonium excretion of *Dosinia ponderosa* and *Chione gnidia* (Veneroida: Veneridae) from areas impacted and non-impacted by shrimp aquaculture effluents

Ramos-Corella, K., Martínez-Córdova, L. R., Enríquez-Ocaña, L. F., Miranda-Baeza, A. & López-Elías, J. A., 1 Jan 2014, In : *Revista de Biología Tropical*. p. 969-976 8 p.

Effect of shrimp farm effluent on water and sediment quality parameters off the coast of Sonora, Mexico

Barraza-Guardado, R. H., Martínez-Córdova, L. R., Enríquez-Ocaña, L. F., Martínez-Porchas, M., Miranda-Baeza, A. & Porchas-Cornejo, M. A., 1 Jan 2014, In : *Ciencias Marinas*. p. 221-235 15 p.