



Dr. Edgar F. Mendoza Franco

Head of the laboratory of Aquatic Parasitology (Aquaculture Department) from the Institute EPOMEX, Universidad Autónoma de Campeche (UAC), Mexico.

✉ efmendoz@uacam.mx

📍 San Francisco de Campeche, Campeche, Mexico

Biography

Dr. Edgar Mendoza is graduate from the degree in Pharmacist Chemist Biologist (QFB) at Autonomous University of Yucatan, Mexico in 1992. Since then, he has been interested in the parasitology of native and/or exotic fishes from freshwater and marine ecosystems in the Tropics, culminating in his Master and PhD in Marine Sciences in 1998 and 2006, respectively. His specialty is mainly based on systematics of endo- and ectoparasitic monogeneans (Platyhelminthes) including those of veterinary importance (i.e., as precursors of fish mortality in culture systems) using the morphology and molecular data to identify them.

Social profiles

<https://orcid.org/0000-0003-0827-2679>

National System of Researchers (SNII) in Mexico: Level II

Others IDs

Scopus Author ID: 6602774207

Work experience

- Research Scientist of the academic staff of the Instituto de Ecología, Pesquerías y Oceanografía del Golfo de México (EPOMEX) at the Autonomous University of Campeche, Mexico. Responsibility for the leadership of projects and setting the course of “Fish parasites as indicators of health of the coastal ecosystems” from the Multidisciplinary Masters’ Program for the Management of the Coastal-Marine Zone (MMMZCM). Since 2011
- Assistant Professor of Teaching- Faculty of Biological Sciences at the Autonomous University of Campeche, Mexico. Responsibility for setting the course of “Molecular Biology” and “Clinical Mycology” (recognising fungal and parasitic infections). Since 2013
- Editor-in-chief of the Internacional Journal of JAINA (with institutional support), Costas y Mares- <https://jainaccc.uacam.mx/index.php/jainaccc> 2018-2022.
- Section Editor-Fish Parasitology for Springer Nature (currently) (<https://link.springer.com/journal/436/editorial-board>).
- Academic Coordinator of the MMMZCM program (<https://www.marinetraing.eu/node/3606>). Autonomous University of Campeche, Mexico. April 2013-April 2016

Education

Master

Thesis: *Biogeography of the genus Sciadicleithrum (Monogenea: Ancyrocephalinae), parasites of Neotropical cichlids (Pisces: Cichlidae)*. Centre for Research and Advanced Studies, National Polytechnic Institute (CINVESTAV), Mérida, Yucatan, México. July 1998

Doctorate

Thesis: *Morphological and molecular systematics of Sciadicleithrum spp. (Monogeneoidea, Dactylogyridae), parasites of Neotropical cichlids (Teleostei, Perciformes)*. Centre for Research and Advanced Studies, National Polytechnic Institute (CINVESTAV), Mérida, Yucatan, México. March 2006

Post-Doctorate

Systematics and phylogenetic relationships of monogeneans parasitizing South American freshwater fishes. Institute of Parasitology, Academy of Sciences of the Czech Republic, Branišovská 31, 370 05 České Budějovice, Czech Republic (Postdoctoral fellow [2 years] from the Consejo Nacional de Ciencia y Tecnología [CONACyT- C000/430/07-76029; C000/913/08-93431], Mexico). January-December 2008; February 2009-February 2010.

Post-Doctorate

Biogeography and systematics of parasites of freshwater and marine fishes from Central America and Mexico. Smithsonian Tropical Research Institute (STRI), Naos Labs, Unit 0948, APO AA34002. Panamá. August 2006-December 2007.

Specialty

Domain: Marine Sciences

Field: Fish parasitology

Specialty: Morphological and molecular systematics of metazoan parasites, especially members of Monogeneoidea

Recent publications

Influence of environmental conditions on the structure of parasite communities of *Mugil curema* (Valenciennes, 1836) from five tropical coastal lagoons. **2026**. NEW ZEALAND JOURNAL OF ZOOLOGY - Journal article. 2026; 53:e70010. CONTRIBUTORS: Díaz-Gallegos A., Violante-González J., Monks S., **Mendoza-Franco E.F.**, Rojas-Herrera A.A., Flores-Rodríguez, P., Gallegos-Navarro, Y., Valencia-Cayetano, C. <https://doi.org/10.1002/njz2.70010>

Turnover, uniqueness, and environmental filtering shape helminth parasite metacommunities in freshwater fish *Pseudoxiphophorus bimaculatus* (Cyprinodontiformes: Poeciliidae). **2025**. DIVERSITY (SWITZERLAND) - Journal article. ISSN: 1424-2818. 2025, 17, 864. CONTRIBUTORS: López-del-Monte, I., Rico-Chávez, O., Caspeta-Mandujano, JM., **Mendoza-Franco, EF.**, Mercado-Silva, N., Montoya-Mendoza, J., Rubio-Godoy, M., Guzmán-Valdivieso. I., Quiroz-Martínez, B., Salgado-Maldonado, G. 2025. doi.org/10.3390/d17120864.

Geography is a stronger predictor of diversification of monogenean parasites (Platyhelminthes) than host relatedness in characin fishes of Middle America. **2025**. PLoS One (UNITED STATES) - Journal article. 20 (4) e0316974. ISSN: 1932-6203. CONTRIBUTORS: Alda F., **Mendoza-Franco E.F.**, Hanson-Regan W., Reina R.G., Bermingham E., Torchin M. <https://doi.org/10.1371/journal.pone.0316974>

Shape variability and morphological discrimination of haptor attachment structures in *Urocleidoides* spp. Mizelle et Price, 1964 (Monogenea: Dactylogyridae) parasitizing fish from Neotropical rivers in the Southern Mexico. **2025**. PARASITOLOGY INTERNATIONAL (IRLANDA) - Journal article. ISSN: 1873-0329. 104 (2025) 102984. CONTRIBUTORS: Rodríguez-González A., **Mendoza-Franco E.F.**, Caspeta-Mandujano JM., Salgado-Maldonado G. <https://doi.org/10.1016/j.parint.2024.102984>

Dactylogyrids (Monogeneoidea) parasitizing *Microlepidotus brevipinnis* (Haemulidae) from the Pacific coast of Mexico: *Magnanchor raris* n. gen., n. sp. and supplementary taxonomic information for *Mexicana bychowskyi* Caballero and Bravo-Hollis 1959. **2024**. THALASSAS: AN INTERNATIONAL JOURNAL OF MARINE SCIENCES - Journal article. 40, 1. CONTRIBUTORS: **Mendoza-Franco EF.**, Valente-Alarcon F., Violante-González J. <https://doi.org/10.1007/s41208-024-00675-5><https://doi.org/10.1007/s41208-024-00675-5>

New and previously known ectoparasitic monogenoids (Platyhelminthes) on native and non-native fishes from tributaries of the Usumacinta River basin (southern Mexico), a Neotropical transition zone. **2023**. INTERNATIONAL JOURNAL FOR PARASITOLOGY: PARASITES AND WILDLIFE- Journal article. 22: 92–100. CONTRIBUTORS: **Mendoza-Franco, E.F.**, Hernández-Gómez, R.E., Caspeta-Mandujano, J.M. <https://doi.org/10.1016/j.ijppaw.2023.09.008>

Species of Dactylogyridae (Monogeneoidea, Polyonchoinea) from the gills of haemulid and lutjanid fishes (Perciformes) from the Pacific coast of Mexico. **2023**. SYSTEMATIC PARASITOLOGY- Journal article. 100 (4): 429–437. CONTRIBUTORS: **Mendoza-Franco E.F.**, Villalba-Vásquez P.J., Violante-Gonzalez J. <https://doi.org/10.1007/s11230-023-10095-3>

Rediscovering Monogenoids (Platyhelminthes) parasitizing pomacentrid and chaetodontid fishes from Cayo Arcas reef, Gulf of Mexico. DIVERSITY **2022**-11-16 | Journal article. CONTRIBUTORS: **Edgar F. Mendoza-Franco**; Nuno Simões; Víctor M. Vidal-Martínez; M. Leopoldina Aguirre-Macedo. DOI: 10.3390/d14110985.