

Luis M. Mejía-Ortíz, Ph.D.

Biospeleology & Carcinology Lab, Sustainability Development Division, University of Quintana Roo.

Professional Preparation

B.S.	Metropolitan University –Xochimilco	Biologist	1997
MS	National Autonomous University of Mexico	Aquatic Systems	2001
Ph.D.	University of Liverpool (England)	Marine Biology	2003

Appointments

Professor/ Researcher	University of Quintana Roo	2004-present
Visiting Professor	University of Oldenburg (Germany)	2013
Visiting Professor	Nelson Mandela Metropolitan University (South Africa)	2012
Visiting Professor	Tor Vergata Università, Rome Italy	2007
Visiting Professor	University of California Berkeley USA	2010-2011
Visiting Professor	Brigham Young University USA	2011
Assistant Professor	Metropolitan University -Xochimilco	1997-2003
Teaching Assistant	Metropolitan University –Xochimilco	1996-1997

Focus research: Evolutionary biology of cave crustaceans, Biodiversity of marine and freshwater crustaceans, and Systematics of freshwater caridea.

Publications:

- Román, R., Ortega, L. A. & **Mejía-Ortíz, L. M.**, 2000. *Macrobrachium vicconi*, a new species of the freshwater shrimp from the rainforest land, southeast Mexico, and comparison with congeners (Crustacea: Decapoda, Palaemonidae). *Journal of Crustacean Biology*, 20(1): 184-194.
- Mejía-Ortíz, L. M.**, F. Alvarez, R. Román and J. A. Viccon-Pale 2001 Fecundity and distribution of freshwater prawns of the genus *Macrobrachium* in the Huitzilapan river, Veracruz, Mexico, *Crustaceana*, 74(1): 69-77.
- Mejía-Ortíz, L.M.** y J. G. Palacios-Vargas, 2001 Estigofauna de la cueva de las Sardinias Tabasco, México. *Mundos Subterráneos UMAE*, (11-12): 10-17.
- Cruz-Hernández, J., **L.M. Mejía-Ortíz**, M. Signoret-Poillon & J.A. Viccon-Pale, 2002. Distribution and abundance of *Diacyclops* sp. (Crustacea Copepoda) in Gabriel Cave, Oaxaca, Mexico. En: Escobar-Briones, E. and F. Alvarez (Editors). *Modern Approaches to the Study of Crustacea*. Amsterdam: Kluwer Academic/ Plenum Publishers. Pp. 91-94.
- Escobar-Briones, E., Cortez-Aguilar, A.M., M. García-Ramos, **L. M. Mejía-Ortíz**, N. O. Salgado-Sifuentes & A. Y. Simms-Del Castillo. 2002. Structure of a Pond Community in Central Mexico En: Alcocer, J., and Sarma, S.S.S. (Ed.) *Advances in Mexican Limnology: Basic and Applied Aspects*. *Hydrobiologia*, 467(1-3): 133-139.
- Mejía-Ortíz, L. M.**, R. G. Hartnoll and J. A. Viccon-Pale. 2003. A new species of stygobitic crayfish from Mexico, *Procambarus cavernicola* (Decapoda: Cambaridae), with a review of cave dwelling crayfishes in Mexico. *Journal Crustacean Biology*, 23(2): 391-401.
- Mejía L. M.** F. Alvarez and R. G. Hartnoll. 2003. A new species of freshwater prawn, *Macrobrachium totonacum* (Decapoda: Palaemonidae), with abbreviated development from Mexico. *Crustaceana*, 76(1): 77-86.
- López-Mejía M., **L. M. Mejía** and F. Alvarez. 2003. *Procambarus (Villalobosus) achilli* (Crustacea: Decapoda: Cambaridae) a new species of crayfish from Mexico. *Crustaceana*, 76(5): 523-531.
- López-Mejía, M. F. Alvarez and **L. M. Mejía-Ortíz**. 2004. A new species of *Procambarus* (Crustacea: Decapoda: Cambaridae) from Veracruz, México. *Proceedings of the Biological Society of Washington*, 117(2): 169-175.
- Mejía-Ortíz, L. M.** 2005. Adaptations to cave life in decapods from Oaxaca. *Association for Mexican Cave Studies Bulletin* 15, Austin: 170 pp.
- López-Mejía, M. F. Alvarez and **L. M. Mejía-Ortíz**. 2005. *Procambarus (Ortmannicus) hidalgoensis* (Crustacea: Decapoda: Cambaridae) a new species of crayfish from Mexico. *Proceedings of the Biological Society of Washington*, 118(3): 558-565.

- Mejía-Ortíz L. M.** & R. G. Hartnoll. 2005. Modifications of eye structure and integumental pigment in two cave crayfish. *Journal of Crustacean Biology*, 25(3): 480-487.
- Mejía-Ortíz, L. M.** & M. López-Mejía. 2005. Are there adaptation levels to cave life in crayfishes?. *Journal of Crustacean Biology*, 25(4): 593-597.
- Mejía-Ortíz L. M.** R. G. Hartnoll & M. López-Mejía, 2006. Progressive troglomorphisms in ambulatory and sensorial appendages of crustaceans decapods stygobitic (Cambaridae and Palaemonidae) compared with their epigeal congeners from Oaxaca, Mexico. *Journal Natural History* 40(5-6): 255-264. .
- Mejía-Ortíz, L. M.** & R. G. Hartnoll. 2006. A New Use for Useless Eyes in Cave Crustaceans. *Crustaceana*. 79(5): 593-600.
- Mejía-Ortíz L. M.,** G. Yañez & M. López-Mejía 2007. Echinoderms in an anchialine cave in Mexico. *Marine Ecology* 28(Suppl. 1): 31-36.
- Mejía-Ortíz, L. M.,** G. Yañez M. López-Mejía & Zarza E.. 2007. Cenotes from Cozumel Island, Quintana Roo, México. *Journal of Cave and Karst Studies*, 68(2) 250-255.
- Mejía L. M.,** E. Zarza & M. López. 2008. *Barbouria yanezi sp. nov.*, A new species of cave shrimp (Decapoda, Barbouriidae) from Cozumel, Island, Mexico. *Crustaceana*, 81(6): 663-672.
- Mejía-Ortíz L. M.** (Editor) 2008. Biodiversidad acuática de la Isla de Cozumel. Plaza y Valdes / Universidad de Quintana Roo, México D. F.
- Mejía-Ortíz, L. M.,** F. Baldari & M. López-Mejía. 2008. *Macrobrachium sbordonii* (Decapoda: Palaemonidae), A new stygobitic species of freshwater prawn from Chiapas, Mexico. *Zootaxa*, 1814: 49-57.
- Baldari, F., **L. M. Mejía-Ortíz** & M. López-Mejía. 2010. *Chryphiops sbordonii* (Decapoda: Palaemonidae), a new stygobitic species of freshwater shrimp from southeast of Mexico. *Zootaxa*, 2427: 47-54.
- Mejía-Ortíz L. M.** 2010. Pautas de comportamiento alimenticio y adaptaciones progresivas en los apéndices auxiliares usados para la alimentación en *Agostocaris bozanici* y *Barbouria yanezi*. *Revista Mexicana de la Biodiversidad*. 81 (Suplemento): S193-S202
- Mejía-Ortíz, L. M.** R. G. Hartnoll & M. López-Mejía 2010. The abbreviated larval development of *Macrobrachium totonacum* Mejia, Alvarez & Hartnoll, 2003 (Decapoda, Palaemonidae), reared in the laboratory. *Crustaceana*, 83(1):1-16
- Mejía-Ortíz, L. M.** & F. Alvarez. 2010. Seasonal effects on the distribution of three species of *Macrobrachium* along an altitudinal gradient. *Crustaceana*, 83(4): 385-397.
- Mejía-Ortíz, L. M.** & M. López-Mejía. 2011. Freshwater prawns of genus *Macrobrachium* (Decapoda: Palaemonidae) with abbreviated development from Papaloapan River Basin, Veracruz, Mexico: Distribution and new species *Crustaceana* 84 (8): 949-973.
- Mejía-Ortíz L. M.,** M. López-Mejía y M. I. Martínez Trinidad. 2011. **Crustáceos decápodos del río Papaloapan**. México D. F. Universidad de Quintana Roo, 150 pp.
- Pérez-Morfin A., M. M. Martínez-Sánchez, M. A. Becerra-Polanco, D. M. Collí-Novelo, F. Hernández-González, M. López-Mejía & **L. M. Mejía-Ortíz**. 2012. Glosario trilingüe de Biodiversidad. / Biodiversity Glossary. México. D. F. Universidad de Quintana Roo, 80 pp. In press.
- Mejía-Ortíz L. M.,** M. López-Mejía & L. C. Santander-Botello. 2012. Sustainable Development: Concepts, Scopes & Paradigms In: & Alvarado-Herrera, A. & A. González-Damián (Editors). Management of Sustainability Tourism. University of Quintana Roo. México D. F. 150 pp. (In press)
- Mejía-Ortíz L. M.,** M. López-Mejía, G. Bribiesca-Contreras, F.A. Solís-Marín & G. Yañez 2012. Fauna anchialina de Cozumel. In: Cave on The Isle of Cozumel (In Press).
- Ruíz-Cancino, G., **L. M. Mejía-Ortíz** & E. Lozano-Alvarez. 2012. Dinámica poblacional de *Creaseriella anops* (Crustacea: Isopoda) en Cenotes Dulceacuícolas de Quintana Roo. In: López-Mejía M. & L. M. Mejía-Ortíz (Editors). La carcinología en México: El legado del Dr. Alejandro Villalobos 30 años después. Universidad de Quintana Roo, México D. F. 180 pp. (In Press).
- Mejía-Ortíz L. M.,** M. López-Mejía, J. Pakes, R. Hartnoll & E. Zarza-González. Morphological adaptations to anchialine species of five shrimp species (*Barbouria yanezi*, *Agostocaris bozanici*, *Procaris mexicana* *Calliasmata nohochi* & *Typhlatya pearsei*). *Crustaceana* (In press).
- Santander L. C.; López-Mejía M. **Mejía-Ortíz L. M.** & Gallegos-Jiménez O. 2012. Evaluación del impacto ambiental de arrecifes artificiales para uso turístico en Cozumel, México. *Investigación y Ciencia de la Universidad Autónoma de Aguascalientes*, 56: 18-26.

Mejía-Ortíz, L. M. & M. López-Mejía. Freshwater prawns (Palaemonidae: *Macrobrachium*) in anchialine caves of Cozumel Island. A new record of *Macrobrachium faustinum* in Mexico. Crustaceana (Submitted).

Synergistic Activities

Competitive Awards

2011- Research Travel Grant to Brigham Young University April 2012. CUMEX

2006-Current: Sistema Nacional de Investigadores CONACYT Mexico.

2004-2005 Research funds: Crustaceans species in the dangerous checklist NOM-059. CONABIO.

2005-2007 Research funds: Cave crustaceans from Cozumel Island PROMEP-SEP

2009-2011 Research funds: Crustaceans from Papaloapan River Basin. CONABIO.

2012-Current: Molecular systematics of genus *Macrobrachium* with abbreviated development in the southern of Mexico CONACYT-submitted.

Teaching activities

- *Lecture in the Bs Biology Program in Metropolitan Autonomous University 1996-2003*
- *Lecture in the Bs Natural Resources Management in Quintana Roo University 2004-Current*
- *Lecture in the Ms Sustainable Management Tourism in Quintana Roo University 2012*

Web Pages

Cortez-Aguilar, A.M., M. García-Ramos, L.M. Mejía-Ortíz, N. O. Salgado-Sifuentes y A. Y. Simms-Del Castillo. Publicación electrónica sobre las comunidades de animales que habitan en las cuevas así como sus relaciones tróficas. Dirección: <http://www.angefire.com/co2/dinamicacomunidades>

Professional Society Memberships

The Crustacean Society,

Service to Scientific Community

Ad hoc reviewer for: Nauplius, Biological Journal of Linnean Society, Journal of Cave and Karst Studies, Caribbean Journal of Science, Revista Mexicana de la Biodiversidad, National Oceanographic Ocean Atmospheric.

Collaborators & Other Affiliations

Collaborators:

Fabiola Baldari (Università Tor Vergata Rome), Fernando Alvarez (Biology Institute, UNAM), Elva Escobar Briones (Marine and Limnology Institute, UNAM) Marilú López-Mejía (Quintana Roo University), Richard Hartnoll (University of Liverpool), Joey Pakes (University of California -Berkeley), Keith A. Crandall (George Washington University), Janine Adams (Nelson Mandela Metropolitan University), Thomas Kenkle & Ingo Mose (Oldenburg University).

Graduate Advisors

Richard G. Hartnoll (PhD, University of Liverpool); Ramiro Román Contreras (MS, UNAM); Martha Signoret Poillon (Bsc, Metropolitan University).

Thesis supervisor & advisor

Bsc Metropolitan Autonomous University (Mexico): Sandra Hernández (Feeding behaviour from *Procambarus mexicanus* in laboratory). Alma Bautista (Feeding of water hyacinth *Eichhornia crassipes* by crayfish *Procambarus mexicanus* in annual period). Enrique Velasco (Temporal dynamics in locomotor activity of stygobitic crayfish *Procambarus cavernicola*). Javier Cruz (Comparison richness of malacostracean cave species in the Gabriel, Aserradero and Nacimiento del Río San Antonio Cave). Irving Téllez (Database to taxonomy identity of crayfishes from Mexico). Marilú López (New registers on distribution of crayfishes species of subgenus Villalobosus).

Bsc Conkal Tecnology Yucatan (Mexico): Elsy May (Distribution of genus *Macrobrachium* in the Papaloapan basin).

Bsc Quintana Roo University (Mexico): Miguelina Martínez (The crabs Brachyura from the mangrove area in in the Papaloapan River Veracruz). Wendy Ojeda (Population dynamics of isopod *Gnathia velosa* in the Cozumel Island). Rocío Y. Perera Pech (The morphometric studies of *Macrobrachium* populations from Usumacinta Basin). Meybi K. Pat Canche (The legal frame and mangrove management in the Cozumel Island). Laura Chan (The illustrated taxocenosis of shrimps from Cozumel Island).and advisor in other 15 thesis.

Ms National Autonomous University of Mexico: Esteban Zarza (Morphology adaptations to cave life of decapods from cenotes of Cozumel Island). Olmo Torres (Ecology of *Speleonectes tulumensis* in the anchialine system “Crustacea”, Quintana Roo, México-advisor). Guillermo Ruíz (Population structure of *Creaseriella anops* from cenotes in Quintana Roo). Guadalupe Bribiesca (Genetic structure of echinoderm species from anchialine cave Aerolito in Cozumel Island-advisor).

Ms Oldenburg University -Germany: Inga Eumann (Paradise Destruction: The Role of governance in mitigating socio-economic and ecological impacts of mass Tourism on the Island of Cozumel).

PhD. Nelson Mandela Metropolitan University, South Africa. Sabine Hope. Mangrove reductions antropogenic and natural effects.