

PUBLICATIONS (Undergraduate students in bold)

1. **Espinasa, J.** and Espinasa, L. (2024) Cavefish dorsoventral axis angle during wall swimming: laterality asymmetry. *Subterranean Biology* 49: 19–29. doi: 10.3897/subtbiol.49.121747
2. Espinasa, L., **Gutierrez, A.**, Hinkle, A., and Niemiller, M. L. (2024) A new genus and species of nicoletioid silverfish (Insecta: Zygentoma: Nicoletiidae) from caves of northern Alabama, USA. *Subterranean Biology* 49: 1–17. doi: 10.3897/subtbiol.49.119986
3. Espinasa, L., **Gutierrez, A.**, and Szentesi, R. A. (2024) Two new species of Nicoletioid (Zygentoma) insects: Cave-adapted Nicoletioid insect dispersal in two karstic regions from Mexico. *Trends in Entomology* 19: 141-153.
4. Policarpo, M., Legendre, L., Germon, I., Espinasa, L., Rétaux, S., Casane, D. and Lafargeas, P. (2024) The nature and distribution of non-functional alleles suggest only two independent events at the origins of *Astyanax mexicanus* cavefish populations. *BMC Ecology and Evolution* 24(41): 1-14. <https://doi.org/10.1186/s12862-024-02226-1>
5. Legendre, L., Rode, J., Germon, I., Pavie, M., Quiviger, C., Policarpo, M., Leclercq, J., Père, S., Fumey, J., Hyacinthe, C. and Ornelas-García, P., (2023) Genetic identification and reiterated captures suggest that the *Astyanax mexicanus* El Pachón cavefish population is closed and declining. *Zoological research* 44(4): 701.
6. Espinasa, L. and **Lewis, K.** (2023) Eye convergence is evoked during larval prey capture (LPC) without visual stimulus and in blind cavefish. *Subterranean Biology* 46: 46-60.
7. Espinasa, L. and **Pech, A.** (2023) Biogeographical affinities of the aquatic community of Refugio Cave, a newly discovered *Astyanax* cave. *Subterranean Biology* 46: 77-86.
8. Legendre, L., Espinasa, L., Lacaille-Múzquiz, J-L., Alaniz-Garfía, G., Ornelas-García, P., Rétaux, S. (2023) First record of a freshwater cave sponge (Porifera, unknown gen. and sp.) in a cave inhabited by *Astyanax* cavefish in the Sierra de El Abra, San Luis Potosí, Mexico. *Subterranean Biology* 45: 187-198. <https://doi.org/10.3897/subtbiol.45.105323>
9. Legendre, L., Rode, J., Germon, I., Pavie, M., Quiviger, C., Policarpo, M., Leclercq, J., Père, S., Fumey, J., Hyacinthe, C., Ornelas-García, P., Espinasa, L., Rétaux, S., Casane, D. (2023) Genetic identification and reiterated captures suggest that the *Astyanax mexicanus* El Pachón cavefish population is closed and declining. *Zoological Research* 44(4): 701-711. doi: 10.24272/j.issn.2095-8137.2022.481
10. Espinasa, L., Diamant, R., Vinepinsky, E. and Espinasa, M. (2023) Evolutionary modifications of *Astyanax* larval prey capture (LPC) in a dark environment. *Zoological Research* 44(4): 750-760. doi: 10.24272/j.issn.2095-8137.2022.466
11. Espinasa, L., Rohner, N., and Rétaux, S. (2023) Reproductive seasonality of *Astyanax mexicanus* cavefish. *Zoological Research* 44(4): 698-700. doi: 10.24272/j.issn.2095-8137.2022.164
12. Espinasa, L., Sprous, P., Posso, K., Mitchell, A., Espinasa, M. and **Lin, J.** (2023) Miocene divergence for *Texoreddellia*? An important component of the cave-adapted fauna of Texas and northern Mexico. *Zootaxa* 5256 (3): 267–278. doi.org/10.11646/zootaxa.5256.3.3
13. Ramsés Miranda-Gamboa, R., Espinasa, L., Verde-Ramírez, M. A., Hernández-Lozano, J., Lacaille, J. L., Espinasa, M., and Ornelas-García, C. P. (2023) A new cave population of *Astyanax mexicanus* from Northern Sierra de El Abra, Tamaulipas, México. *Subterranean Biology* 45: 95–117 doi: 10.3897/subtbiol.45.98434

14. Espinasa, L., Pavie, M. and Rétaux, S. (2023) Protocol for lens removal in embryonic fish and its application on the developmental effects of eye regression. *Subterranean Biology*, 45: 39-52. doi: 10.3897/subtbiol.45.96963
15. Espinasa, L. and Smith G. B. (2023) "Nicoletia" tergata Mills, 1940 rediscovered in Florida and confirmed as the first species of the Nicoletiinae (Zygentoma: Nicoletiidae) in North America. *Zootaxa* 5228 (3): 337–350.
16. Espinasa, L., Diamant, R., **Mesquita, M.**, **Lindquist, J. M.**, **Powers, A. M.**, and Helmreich, J. (2022) Laterality in cavefish: Left or right foraging behavior in *Astyanax mexicanus*. *Subterranean Biology* 44: 123-138.
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19. Espinasa, L., **Heintz, C.**, Rétaux, S., Yoshisawa, M., Agnès, F., Ornelas-Garcia, P., and Balogh-Robinson, R. (2020). Vibration Attraction Response (VAB) is a plastic trait in Blind Mexican tetra (*Astyanax mexicanus*), variable within subpopulations inhabiting the same cave. *Journal of Fish Biology* 10: 1-13 doi.org/10.1111/jfb.14586
20. Espinasa, L., Ornelas-García, C. P., Legendre, L., Rétaux, S., **Best, A.**, Gamboa-Miranda, R., Espinosa-Pérez, H., and Sprouse, P. (2020) Two New Localities of *Astyanax* Cavefish Plus Revision of its Biogeography. *Diversity* 12: 368 DOI: 10.3390/d12100368
21. Molero-Baltanas, R., Espinasa, L., and Gaju-Ricart, M. (2019) The genus *Anelpistina* (Insecta, Zygentoma, Nicoletiidae) in Puerto Rico, with description of a new species. *Neotropical Entomology* 42(4): 1-11.
22. Espinasa, L. and **Coppola, J.** (2019) Cave *Astyanax*: Hunters or scavengers? Evidence from gut contents. *Speleobiology Notes* 10:28-37.
23. Espinasa, L., Chávez Solís, E. M., Mascaró, M., Rosas, C., Simoes, N., and **Violette, G.** (2019) A new locality and phylogeny of the stygobitic *Typhlatya* shrimps for the Yucatan Peninsula. *Speleobiology Notes* 10:19-27.
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26. Espinasa, L., **Robinson, J.**, and Espinasa, M. (2018) Mc1r gene in *Astroblepus pholeter* and *Astyanax mexicanus*: Convergent regressive evolution of pigmentation across cavefish species. *Developmental Biology* 441: 305-310.
27. Espinasa, L., Hoese, G., Toulkeridis, T., and Toomey, R. (2018) Corroboration that the Mc1r Gly/Ser mutation correlates with the phenotypic expression of pigmentation in *Astroblepus*. *Developmental Biology* 441: 311-312.

28. Blin, M., Tine, E., Meister, L., Elipot, Y., Bibliowicz, J., Espinasa, L., and Rétaux, S. (2018) Developmental evolution and developmental plasticity of the olfactory epithelium and olfactory skills in Mexican cavefish. *Developmental Biology* 441: 242-251.
29. Espinasa, L., **Robinson, J.**, Soares, D., Hoese, G., Toulkeridis, T., and Toomey, R. (2018) Troglomorphic features of *Astroblepus pholeter*, a cavefish from Ecuador, and possible introgressive hybridization. *Subterranean Biology* 27:17-29.
30. **Kopp, J., Avasthi, S.**, and Espinasa, L. (2018) Phylogeographical convergence between *Astyanax* cavefish and mysid shrimps in the Sierra de El Abra, Mexico. *Subterranean Biology* 26: 39-53.
31. Espinasa, L., Legendre, L., Fumey, F., Blin, M., Rétaux, S., and Espinasa, M. (2018) A new cave locality for *Astyanax* cavefish in Sierra de El Abra, Mexico. *Subterranean Biology* 26: 39-53.
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33. Simon, V., Elleboode, R., Mahé, K., Legendre, L., Ornelas-Garcia, P., Espinasa, L., and Rétaux, S., (2017) Comparing growth in surface and cave morphs of the species *Astyanax mexicanus*: Insights from scales. *EvoDevo* 8(23): 1-13.
34. Espinasa, L., **Christoforides, S.**, and **Morfessis, S. E.** (2017) Sequence analyses of the 16S rRNA of epigeal and hypogean diplurans in the Jumandi Cave area, Ecuador. *Speleobiology Notes* 9:18-22.
35. Espinasa, L., **Sloat S. A., Parker, K.**, and **Robinson, J.** (2017) A new cave population of catfish from Mexico. What's on their menu? Frog legs. *Speleobiology Notes* 9: 1-10.
36. Espinasa, L., **Bonaroti, N., Wong, J.**, Pottin, K., Queinnec, E., and Rétaux, S. (2017) Contrasting feeding habits of post-larval and adult *Astyanax* cavefish. *Subterranean Biology* 21: 1-17.
37. Espinasa, L., **Collins, E., Finocchiaro, A., Kopp, K., Robinson, J.**, and **Rutkowski, J.** (2016) Incipient regressive evolution of the circadian rhythms of a cave amphipod. *Subterranean Biology* 20: 1-13.
38. Espinasa L., **Parker K.**, and **Sloat S. A.** 2016 Identification of a new population of *Anelpistina inappendicata* (Insecta: Zygentoma: Nicoletidae). *Speleobiology Notes* 8: 10–15.
39. Espinasa, L., **Bartolo, N. D., Centone, D. M.**, Haruta, C. S., and Reddell, J. R. (2016) Revision of genus *Texoreddellia* Wygodzinsky, 1973 (Hexapoda, Zygentoma, Nicoletidae), a prominent element of the cave-adapted fauna of Texas. *Zootaxa* 4126(2): 221-239.
40. Espinasa, L., **Bartolo, N. D.**, and **Sloat, S. A.** (2015) A new epigeal species of the genus *Anelpistina* (Insecta: Zygentoma: Nicoletidae) from Sierra de El Abra, Taninul, Mexico. *European Journal of Taxonomy* 156: 1-7.
41. Espinasa, L., **McCahill, A., Kavanagh, A.**, Espinasa, J., **Scott, A. M.** and Cahill, A. (2015) A troglitic amphipod in the Ice Caves of the Shawangunk Ridge: Behavior and cold resistance. *Subterranean Biology* 15: 95-104.
42. Espinasa, L., **Garvey, R.**, Espinasa, J., Fratto, C. A., Taylor, S., Toulkeridis, T., and Addison, A. (2015) Cave dwelling Onychophora from a Lava Tube in the Galapagos. *Subterranean Biology* 15: 1-10.
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44. Espinasa, L. **Collins, E.**, and **Botelho, M.** (2014) Two new nicoletiid species (Insecta: Zygentoma) from the Yucatan Peninsula, México. *Proceedings of the Biological Society of Washington* 127(3): 473-482.

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47. Espinasa, L., Bibliowicz, J., Jeffery, W. R., and Rétaux S. (2014) Enhanced prey capture skills in *Astyanax* cavefish larvae are independent from eye loss. *Evo Devo* 5: 35.
48. Giribet, G., McIntyre, E., Christian, E., Espinasa, L., Ferreira, R. L., Francke, O. F., Harvey, M. S., Isaia, M., Kováč, L., McCutchen, L., Souza, M. F. V. R., and Zagamajster, M. (2014) The first phylogenetic analysis of Palpigradi (Arachnida)—the most enigmatic arthropod order. *Invertebrate Systematics* 28(4) 350-360.
49. Espinasa, L. and **Botelho, M.** (2014) A New Species of *Speleonycta* (Insecta: Zygentoma) from the bay area of San Francisco, California. *Proceedings of the Biological Society of Washington*. 127(2): 335-339.
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Book chapters

1. Espinasa, L. (2018) *The Guerrero Fish Populations. Astyanax aeneus as a Comparative Cavefish Model.* 223-233. In: *The Astyanax Caves of Mexico. Cavefishes of Tamaulipas, San Luis Potosí, and Guerrero.* Elliott, W. R. 2018. *Association for Mexican Cave Studies, Bulletin 26. Austin, Texas. USA.*
2. Pape, R. B., Espinasa, L., OConnor, B. M., Wilsey, S., and Casavant, R. R. (2016) Diversity and Ecology of the Macro-Invertebrate Fauna of Kartchner Caverns. Cochise County, Arizona. *Arizona State Parks. USA.* 205 pp.
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