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### Education and Professional Experience

- 2019 – present: **Postdoctoral Researcher**, Clemson’s Center for Human Genetics, Greenwood, SC, USA.
- 2018 - 2019 **Postdoctoral Researcher**, UGA-LANGEBIO, Centro de Investigación y de Estudios Avanzados del IPN, Guanajuato, México.
- 2018 **Ph.D.** Institute of Neurobiology, Universidad Nacional Autónoma de México, Querétaro, México.
- 2011-2017 **Adjunct Professor**, Department of Health Science, Universidad del Valle de México, Querétaro, México.
- 2011-2012 **Adjunct Professor**, Physics and Applied Technology Center, Universidad Nacional Autónoma de México, Querétaro, México.
- 2006 **Master of Science**, Institute of Neurobiology, Universidad Nacional Autónoma de México, Querétaro, México.
- 2004 **Bachelor** of Biological Chemistry and Pharmacology, Department of Chemistry, Universidad Autónoma de Querétaro, Querétaro, México.

### Publications

1. Pfeiler E, **Nazario-Yepiz NO**, Hernández-Cervantes PL and Markow TA. **2022**. Phenotypic diversity, population genetics and interspecific relationships of the Neotropical banded peacock butterfly *Anartia fatima* (Nymphalidae: Nymphalinae). *Biological Journal of the Linnean Society*, 136(1):1–10. <https://doi.org/10.1093/biolinnean/blac007>
2. **Nazario-Yepiz NO**, Fernández-Sobaberas J, Lyman R, Campbell MR, Shankar V, Anholt RRH and Mackay TFC. **2021**. Physiological and metabolomic consequences of reduced expression of the *Drosophila brummer* triglyceride Lipase. *PLoS ONE*, 16(9): e0255198. <https://doi.org/10.1371/journal.pone.0255198>
3. Ranz JM., González PM, Clifton BD, **Nazario-Yepiz NO**, Hernández-Cervantes PL, Palma-Martínez MJ, Valdivia DI, Jiménez-Kaufman A, Lu MM, Markow TA, Abreu-Goodger C. **2021**. A *de novo* transcriptional atlas in *Danaus plexippus* reveals variability in dosage compensation across tissues. *Commun Biol*, 4(791):1–13. <https://doi.org/10.1038/s42003-021-02335-3>
4. Pfeiler E, **Nazario-Yepiz NO** and Markow TA. **2020**. Additional species records and nomenclature updates of butterflies from a threatened coastal habitat in southern Sonora, Mexico. *The Journal of the Lepidopterist’s Society*, 74(3):197–200. <https://doi.org/10.18473/lepi.74i3.a8>
5. Pfeiler E, **Nazario-Yepiz NO**, Hernández-Cervantes PL and Markow TA. **2020**. Mitochondrial DNA barcodes provide insight into the phylogeography and subspecies controversy in the widespread neotropical White Peacock butterfly, *Anartia jatrophae* (Nymphalidae: Nymphalinae). *Biological Journal of the Linnean Society*,

- 130(4):700–714. <https://doi.org/10.1093/biolinnean/blaa080>
6. Pfeiler E and **Nazario-Yepiz NO**. 2020. DNA-based taxonomy and potential suppression of long-established names: the case of *Telegonus fulgerator* (Lepidoptera: Hesperiiidae). *Systematics and Biodiversity*, 18(4):338–346. <https://doi.org/10.1080/14772000.2020.1758825>
  7. Vanderlinde T, Guimarães Dupim E, **Nazario-Yepiz NO** and Carvalho AB. 2019. An improved genome assembly for *Drosophila navojoa*, the basal species in the mojavensis cluster. *Journal of Heredity*, 110(1):118-123. <https://doi.org/10.1093/jhered/esy059>
  8. Pincela Mateus R\*, **Nazario-Yepiz NO\***, Ibarra-Laclette E, Loustalot-Laclette MR and Markow TA. 2019. Developmental and transcriptomal responses to seasonal dietary shifts in the cactophilic *Drosophila mojavensis* of North America. *Journal of Heredity*, 110(1):58-67. \*Equal contribution. <https://doi.org/10.1093/jhered/esy056>
  9. Pfeiler E, **Nazario-Yepiz NO**, Castro-Vargas C and Loustalot-Laclette MR. 2018. DNA barcodes suggest possible new cryptic species in the *Codatractus melon* species group (Hesperiiidae: Eudaminae) in North America. *The Journal of the Lepidopterist's Society*, 72(3):203-211. <https://doi.org/10.18473/lepi.v72i3.a5>
  10. **Nazario-Yepiz NO**, Loustalot-Laclette MR, Carpinteyro-Ponce J, Abreu-Goodger C, Markow TA. 2017. Transcriptional responses of ecologically diverse *Drosophila* species to larval diets differing in relative sugar and protein ratios. *PLoS ONE*, 12(8):e0183007. <https://doi.org/10.1371/journal.pone.0183007>
  11. **Nazario-Yepiz NO** and Riesgo-Escovar JR. 2017. *piragua* encodes a Zinc Finger Protein required for development in *Drosophila*. *Mechanisms of Development*, 144(B):171-181. <http://doi.org/10.1016/j.mod.2016.12.003>
  12. **Nazario-Yepiz NO**, Loustalot-Laclette MR, Carpinteyro-Ponce J, Abreu-Goodger C and Markow TA. 2017. *Drosophila* species as models for nutritional studies: development, metabolic pools on diets with contrasting relative sugar:protein ratios. *Journal of Nutritional Biology*, 3(1):101-107. <http://dx.doi.org/10.18314/jnb.v3i1.108>
  13. Pfeiler E, **Nazario-Yepiz NO**, Pérez-Gálvez F, Chávez-Mora CA, Loustalot-Laclette MR, Rendón-Salinas E and Markow TA. 2017. Population genetics of overwintering monarch butterflies, *Danaus plexippus* (Linnaeus), from central Mexico inferred from mitochondrial DNA and microsatellite markers. *Journal of Heredity*, 108(2):163-175. <https://doi.org/10.1093/jhered/esw071>
  14. Perez-Leaños A, Loustalot-Laclette MR, **Nazario-Yepiz NO** and Markow TA. 2017. Ectoparasitic mites and their *Drosophila* hosts. *Fly*, 11(1):10-18. <http://dx.doi.org/10.1080/19336934.2016.1222998>
  15. Sánchez-Flores A, Peñaloza F, Carpinteyro-Ponce J, **Nazario-Yepiz NO**, Abreu-Goodger C, Machado CA and Markow TA. 2016. Genome evolution in three species of cactophilic *Drosophila*. *G3 (Bethesda)*, 6(10):3097-3105. <https://doi.org/10.1534/g3.116.033779>
  16. Markow TA, Hanna G, Riesgo-Escovar JR, Téllez-García AA, Richmond MP, **Nazario-Yepiz NO**, Loustalot-Laclette MR, Carpinteyro-Ponce J and Pfeiler E. 2014. Population genetics and recent colonization history of the invasive drosophilid *Zaprionus indianus* in Mexico and Central America. *Biological Invasions*, 16(11):2427-2434. <http://www.dx.doi.org/10.1007/s10530-014-0674-5>

## Oral Presentations

- 2022 “Physiological and metabolomic consequences of reduced expression of the *Drosophila brummer* triglyceride lipase”. 2022 Clemson Symposium on Quantitative Genetics. College of Science, Clemson University, Clemson, SC, U.S.A.
- 2021 “Physiological and metabolomic consequences of reduced expression of the *Drosophila brummer* triglyceride lipase”. 2021 Rising Star Symposium. College of Science, Clemson University, Clemson, SC, U.S.A.
- 2018 “Developmental and transcriptional responses to seasonal dietary shifts in *Drosophila mojavensis*”. 3<sup>rd</sup> MexFly Meeting. Instituto de Biotecnología-UNAM, Cuernavaca, Morelos, México.
- 2017 “*Drosophila* transcriptomics: species and tissue differences in response to high sugar diets”. Academic Days 2017, LANGEBIO-CINVESTAV, Irapuato, Guanajuato, México.
- 2016 “Effects of diet with high sugar content on flies of the genus *Drosophila*”. 2<sup>nd</sup> MexFly Meeting. CINVESTAV, Campus Zacatenco, Ciudad de México.
- 2014 “Análisis transcriptómico de tres especies de *Drosophila*, en respuesta a diferentes dietas”. Jornadas Académicas de la División de Ciencias de la Salud. Universidad del Valle de México, Querétaro, México.
- 2011 “Genética en cabeza y cuello”. 2<sup>a</sup> Reunión Nacional de Profesores de Patología Bucal, Asociación Mexicana de Patología y Medicina Bucal, Colegio A.C., Querétaro, México.
- 2011 “Tecnologías emergentes para la manipulación de genes en *Drosophila melanogaster*”. Universidad del Valle de México, Querétaro, México.
- 2011 “Un Nuevo Gen del Desarrollo”. Universidad del Valle de México, Querétaro, México.
- 2006 “Un nuevo factor de transcripción con dedos de zinc involucrado en la vía de la cinasa de Jun”. Jornada de Transducción de Señales, Sociedad Mexicana de Bioquímica, A.C., México.

## Poster Presentations

- 2019 “*Drosophila* species as a model system to study the response to high sugar content diet”. Genetics Society of America: 60th Annual *Drosophila* Research Conference. Dallas, TX, U.S.A.
- 2018 “Developmental and transcriptional responses to seasonal dietary shifts in *Drosophila mojavensis*”. Días Académicos 2018, LANGEBIO-CINVESTAV, Irapuato, Guanajuato, México.
- 2015 “Las moscas del género *Drosophila* y el efecto de las dietas con alto contenido de azúcar”. Actividades conmemorativas del día mundial de la diabetes. Parque de innovación Agrobiotec, Irapuato, Guanajuato, México.
- 2014 Markow T.A., Hanna G., Riesgo-Escovar J.R., Polihronakis-Richmond M., Nazario-Yepiz N.O., Ramírez-Loustalot Lactette M., Carpinteyro-Ponce J., Pfeiler E., “Recent colonization history of the invasive drosophilid *Zaprionus indianus* in Mexico and Central America”. 55th Annual *Drosophila* Research Conference. San Diego, CA, U.S.A.
- 2007 “Characterization of a new dorsal closure gene *piragua* (*prg*) in *Drosophila melanogaster*”. 48<sup>th</sup> Annual *Drosophila* Research Conference, Philadelphia, USA.
- 2006 “Characterization of a new dorsal closure gene *piragua* (*prg*) in *Drosophila melanogaster*”. 47<sup>th</sup> Annual *Drosophila* Research Conference, Houston, USA.
- 2005 “Characterization of a new dorsal closure gene *piragua* (*prg*) in *Drosophila melanogaster*”. 46<sup>th</sup> Annual *Drosophila* Research Conference, San Diego, USA.

2005 “Caracterización de un nuevo gen *piragua* (*prg*) en *Drosophila melanogaster*”. VII Congreso Nacional de Biología del desarrollo, Taxco, Guerrero, México.

### **Short Research Stays**

2014 Stowers Institute for Medical Research. Kansas City, Missouri, USA.(Dr. Scott Hawley)

2009 European Molecular Biology Laboratory. Heidelberg, Germany.(Dr. Damian Brunner)

### **Awards and Scholarships**

2019-2021 Member of the Mexican National Research System-Level 1 (“Sistema Nacional de Investigadores” or SNI).

2018 Postdoctoral Fellowship, CONACYT, REF-PROY: IFC2016\_2604/21361.

2007 Honorable Mention “Premio Alejandrina” in Science and the Environment, Universidad Autónoma de Querétaro.

2006 Predoctoral fellowship CONACyT No.184937

2004 Master’s fellowship CONACyT No.184937

### **Languages**

Spanish (Native speaker)

English (Advanced)

German (Basic)