

**Progress Report Publication List**  
(P20-GM103642 & P30-GM149367)

1. Martínez-Guzmán O, Cáceres-Chacón M, Rivera-López M, Hernández-Busot G, Forty-Díaz J, Haddock-Martínez HG, Sierra-Mercado D. (2026) Mild concussion impairs extinction of avoidance and alters respective brain circuits in male rats. *Exp. Neurol.* 14:401:115734. Doi: 10.1016/j.expneurol.2026.115734
2. Bello, S.A., Rodríguez-Monroig, A., Vargas-Morales, A. et al. Electrospun CHIR99021-loaded cellulose acetate scaffolds stimulate osteogenic differentiation and mineralization in vitro. *J Mater Sci: Mater Med* (2026). <https://doi.org/10.1007/s10856-026-07032-3>
3. Negron LM, Camacho-Mercado CL, Morales-Borges CA, Lopez-Colon A, Jesus-Hernandez, AD, Santiago-Figueroa AE, Rodriguez-Rivera JM, Ferrer-Acosta Y, Madera-Soto BA (2026) Self-Assembly of Modular Bis-MPA Dendrons into Colloidal Particles with Tunable Morphology and Selective Cytotoxicity. *Nanomaterials*, 16(7), 406. <https://doi.org/10.3390/nano16070406>
4. Rodríguez-Cordero, J.A., Dorta Avilés, M., Rodríguez-Fernandez, I.A., Ghezzi, A., Lizardi-Ortiz, J.E., Agosto-Rivera, J.L. (2026) Peripheral modulation of Pumilio in Intestinal Stem Cells and Corpus Allatum Affects Sleep Latency in *Drosophila*. *PLoS One*, 21(3): e0337303
5. Medina-Berrios N, Veloz-Bonilla A, Díaz-Vélez SC, Torres-Mulero MT, Kisslinger K, Rivera-Torres AO, Morell G, Martínez-Ferrer M, Weiner BR. (2026) AuAg-Carbon-Based Quantum Dot Nanocomposites to Reduce Andrographolide's Hydrophobicity and Drug Internalization Tracking in PC-3 Cells. *Nanomaterials* (Basel). 16(7):396. doi: 10.3390/nano16070396
6. Martinez NAP, Arnaldi MR, Santiago-Rodriguez TM, Rodriguez-Fernandez IA. (2026) Microbiota-Based Interventions Differentially Rescue Gut and Social Behavior Phenotypes in a *Drosophila* Autism-like Model. *bioRxiv*. 12: 2026.01.09.698713. doi: 10.64898/2026.01.09.698713.
7. Mendoza-Dasilva MV, Rodriguez-Rivera L, Rodriguez-Fernandez IA. (2025) Determination of minimum inhibitory and lethal concentrations of two lactic acid bacteria *Lactiplantibacillus plantarum* reveals strain-specific antibiotic resistance. *MicroPubl Biol.* 16; 10.17912/micropub.biology.001615. doi: 10.17912/micropub.biology.001615.
8. Quiñones-Sanchez CL, Bilbao-Del Valle JL, Urdaneta-Colon MA, Santiago-Rodriguez TM, Rodriguez-Fernandez IA. (2025) Optimizing Tissue Lysis and DNA Extraction Protocols to Enhance Bacterial Diversity Profiling in the *Drosophila melanogaster* Gut Microbiome. *bioRxiv* [Preprint]. 2025 Nov 15:2025.11.15.688634. doi: 10.1101/2025.11.15.688634.PMID: 41292709
9. Miranda-Negrón Y, Acevedo-Figueroa CJ, Ramos-Lugo G, Medina-Feliciano J, García-Arrarás JE. (2025) Echinoderm Radial Glia-Like Cells Express Vertebrate Glial Markers. *J Comp Neurol.* Oct;533(10):e70096. doi: 10.1002/cne.70096.PMID: 41081449
10. Cáceres-Chacón M, Martínez-Guzmán O, Haddock-Martínez HA, Figueroa-Pérez A, Rodríguez-Rosado S, Suárez-Pérez J, Ramos-Sánchez RY, Godoy-Vitorino F, Sierra-Mercado D. (2025) Exposure to the herbicide glyphosate leads to inappropriate threat responses and alters gut microbial composition. *Front. Toxicol.* 7:1704231. Doi: 10.3389/ftox.2025.1704231
11. Mendez-Santacruz LL, Bittman-Soto XS, Molina-Nieves A, Maldonado-Vlaar CS, Peterson-Peguero E. (2025) Pharmacological inhibition of NMDA receptors reduces migration and viability in triple-negative inflammatory breast cancer cell lines. *Discov Oncol.*; 16(1):1764. doi: 10.1007/s12672-025-03604-x.PMID: 41021117
12. Orta Rivera AM, Landrau Correa LA, Schiavone-Chamorro SL, Rankins M, Pérez Otero MV, Benjamín-Rivera JA, Vega Aponte JA, Ebenki VB, Vargas Figueroa AI, Astashkin AV, Fernández-Vega L, Tinoco AD. (2025) Elucidating the High Affinity Copper(II) Complexation by the Iron Chelator Deferasirox Provides Therapeutic and Toxicity Insight. *ChemMedChem*;20(7):e202400937. doi: 10.1002/cmdc.202400937. Epub 2025 Jan 8.PMID: 39714988
13. Pagán-Rivera LH, Godoy-Vitorino F, Meléndez-Vázquez NM, Ocasio-Rivera SE, Santiago-Gascot ME, Santiago JM, Salgado I, González V, Martínez-Guzmán O, Cáceres-Chacón M, Torrado-Tapias A and Miranda JD. (2025) The Effect of Cefazolin on the Gut Microbiome of Female Rats After Spinal Cord Injury. *Microorganism*. 13
14. Reyes-Maldonado, Roberto; Ramírez, Alonso; Marie, Bruno (2025) The Neuromuscular system of *Chironomus vitellinus* (Diptera: Chironomidae). *BioRxiv* (preprint)

15. Negrón, Luis M; Vázquez-Rosa, Edwin; Belfleur, Luxene; Díaz, Tanya L; Madera-Soto, Bismark; Vega, Irving E; Rivera, José M (2025) Guanosine-Based Supramolecular Particles for Enhanced Drug and Gene Delivery in Cell Culture. *ACS applied bio materials*. 8(7); 5625-5633.
16. Calle-Schuler, Steven A; Santana-Cruz, Alexis E; Kmecová, Lucia; Hampel, Stefanie; Seeds, Andrew M (2025) A comprehensive mechanosensory connectome reveals a somatotopically organized neural circuit architecture controlling stimulus-aimed grooming of the *Drosophila* head. *BioRxiv* (preprint)
17. Lloret Torres, Mario E; Rivas Jiménez, Arellys; Tosado Rodríguez, Eduardo L; Cardona Jordan, Kiara; Lay Rivera, Xiany X; Peña Señeriz, Yaren L; Capella Muñiz, Joseph L; Dieppa Rodríguez, Marieliz; Ruiz Bolívar, Daniel F; González Del Toro, Jovangelis; Florian Alsina, John A; Colón Rivera, Paola A; Garcia Colon, Jose O; Roche-Lima, Abiel; Velázquez-Marrero, Cristina (2025) Comparative mRNA profile analysis from NAc of adolescent male mice after binge-like alcohol exposure eliciting deficits in context fear extinction learning. *PlosOne*, 20(6) e0322576
18. Ortiz-Gomez V and Maldonado-Hernandez, R (2025) Challenges and opportunities: Interplay between infectious disease and antimicrobial resistance in medical device surface applications. *ACS Omega*. 10(21); 20968-20983.
19. Rivera A, Bracho-Rincón D, Miller MW. Localization of Cholecystokinin / Sulfakinin Neuropeptides in *Biomphalaria glabrata*, an Intermediate Host for Schistosomiasis. *J Comp Neurol*. 2025 Jan;533(1):e70016. doi: 10.1002/cne.70016. PMID: 39825709; PMCID: PMC11841659.
20. Cardona-Quiñones, Roberto A; Ramírez-Rivera, Edicer; Álvarez-Torres, Edwin; Salem-Hernández, Saidy A; Vargas-Pérez, Noel J; De Jesús-Rojas, Wilfredo (2025) A Pilot Study of Primary Ciliary Dyskinesia: Sleep-Related Disorders and Neuropsychiatric Comorbidities. *J. Clinical Medicine*. 14(4).
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22. Lloret-Torres M & Barreto-Estrada JL (2025) LF-DBS of the ventral striatum shortens persistence for morphine place preference and modulates BDNF expression in the hippocampus. *Behavioral brain research*. Feb. 4:477:115300. Doi: 10.1016/j.bbr.2024.115300
23. Pagan-Rivera LH, Ocasio-Rivera SE, Godoy-Vitorino F, Miranda JD (2024) Spinal Cord Injury: pathophysiology, possible treatments and the role of the gut microbiota. *Frontiers in Microbiology*. Dec. 18, 2024. DOI: 10.3389/fmicb.2024.1490855
24. Daraishka Pérez-Caraballo, Grace Torres , Stephanie Estrada , Yaritza Inostroza-Nieves, Dinely Pérez , Pedro Ferchmin , Yamixa Delgado, Yancy Ferrer-Acosta. Neuroprotection and activation of anti-inflammatory and plasticity mechanisms by PLC- $\beta$  inhibition after cholinergic hyperstimulation in hippocampal slices and microglial cells" *IBRO Neuroscience Reports*. Accepted 20 November 2024, Available online 21 November 2024. <https://doi.org/10.1016/j.ibneur.2024.11.011>
25. Cardona-Jordan KM, Lay-Rivera XX, Cartagena-López E, Bracho-Rincón, DL, González-Bermejo R, Alvarado-Monefeldt GL, Gonzalez Del Toro JP, Esquilín-Rodríguez CJ, Lloret-Torres M, Velázquez-Marrero C (2024) Sex Differences in contextual extinction learning after single binge-like EtOH Exposure in Adolescent C57BL/6J Mice. *bioRxiv*. Oct. 6. Doi: 10.1101/2024.10.25.620195
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27. Villalobos-Santos JC, Carrasquillo-Rivera M, Rodriguez-Cordero JA, Quesada O and Lasalde-Dominicci JA (2024) Insights into crystallization of neuronal nicotinic  $\alpha 4\beta 2$  receptor in polarized lipid matrices. *Crystals*. 14(1), 889. Doi: [org/10.3390/cryst14100889](https://doi.org/10.3390/cryst14100889).
28. Colón-Mercado JM, Torrado-Tapias AI, Salgado IK, Santiago JM, Rivera SEO, Bracho-Rincon DP, Rivera LHP, Miranda JD. (2024) The sexually dimorphic expression of glutamate transporters and their implication in pain after spinal cord injury. *Neural Regen Res*. Sep. 24. doi: 10.4103/NRR.NRR-D-24-00035
29. Cordero Padilla K, Alvarado Monefeldt G, Guervarez Galan A, Marrero HG, Lloret-Torres ME, Velazquez-Marrero C (2024) BK Zero isoform HEK293 stably transfected cell line differing 3' UTRs to assess miR-9 regulation. *PLoS One*. 19(3): e0298966. Doi: 10.1371/journal.pone/0298966.
30. Dominicci-Cotto C, Vazquez M and Marie B (2024) The wingless planar cell polarity pathway is essential for optimal activity-dependent synaptic plasticity. *Frontiers in synaptic neurosc*. 16, 1322771. Doi: 10.3389/fnsyn.2024.1322771

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32. Vassjo LO and Miller MW (2024) A conserved gastropod withdrawal circuit in *Biomphalaria glabrata*, an intermediate host for schistosomiasis. *J. Neurophysiol.* Doi: 10.1152/jn.00390.2023. PMID: 38478883 Online ahead of print.
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35. Van Belleghem SM, Ruggieri AA, Concha C, Livraghi L, Hebberecht L, Santiago Rivera E, Ogilvie JG, Hanly JJ, Warren IA, Planas S, Ortiz-Ruiz Y, Reed R, Lewis JJ, Jiggins CD, Counterman BA, McMilan WO and Papa R (2023) High level of novelty under the hood of convergent evolution. *Science*. 379 (6636): 1043-1049.
36. Maldonado-Hernández R, Quesada O, González-Feliciano JA, Baerga-Ortiz A, Lasalde-Dominicci JA. Identification of the native *Torpedo californica* nicotinic acetylcholine receptor's glycan composition after a multi-step sequential purification method using MALDI-ToF MS. *Proteomics*. 2023 Oct 30:e2300151. doi: 10.1002/pmic.202300151. Epub ahead of print. PMID: 37904306.
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39. Vicente-Rodriguez LC, Torres-Arroyo AC, Hernandez-Vazquez A, Rosa-Casillas MR, Bracho-Rincon DP, Mendez de Jesus, P, Behra ML, Habib MR, Zhou X, Rosenthal, JJ, Miller MW (2023) The FMRF-NH2 gated sodium channel of *Biomphalaria glabrata*: Localization and expression following infection by *Schistosoma mansoni*. *Plos Neglected Tropical Diseases*. June 2023, 1-28 <https://doi.org/10.1371/journal.pntd.001249>
40. Orestes Quesada, Joel E. González-Nieves, José Colón, Rafael Maldonado-Hernández, Carol González-Freire, Jesús Acevedo-Cintrón, Irvin D. Rosado-Millán, José A. Lasalde-Dominicci (2023) Assessment of Purity, Functionality, Stability, and Lipid Composition of Cyclofos-nAChR-Detergent Complexes from *Torpedo californica* Using Lipid Matrix and Macroscopic Electrophysiology. *The Journal of Molecular Membranes*. <https://doi.org/10.1007/s00232-023-00285-x>
41. Lyanne M. García Sánchez, Jennifer M. Colón Mercado, Aranza I. Torrado Tapias, Kenneth Padín Díaz, Jorge D. Miranda, and José M. Santiago Santana (2023) The limited effects of estradiol administration immediately after spinal cord injury. *PRHSJ* 42(1), 23-28.
42. Akamine P, Gonzalez-Feliciano JA, Almodovar R, Morell G, Rivera J, Capo-Velez CM, Delgado-Velez M, Prieto-Costas L, Madera B, Eichinger D, Pino I, Rivera JH, Ortiz-Ubarri J, Rivera JM, Baerga-Ortiz A and Lasalde-Dominicci JA (2023) Optimizing the production of gp145, an HIV-1 Envelope Glycoprotein Vaccine Candidate and Its Encapsulation in Guanosine Microparticles. *Vaccines*. 11 (975), 1-23
43. Katharina Eichler, Stefanie Hampel, Adrián Alejandro-García, Steven A. Calle-Schuler, Alexis Santana-Cruz, Lucia Kmecova, Jonathan M. Blagburn, Eric D. Hoopfer, and Andrew M. Seeds (2024) Somatotopic organization among parallel sensory pathways that promote a grooming sequence in *Drosophila*. *eLife* Apr 18, 12 doi: 10.7554/eLife. 87602 PMID: PMC9934617 PMID: 36798384
44. Zally Torres-Martinez, Daraishka Pérez, Grace Torres, Stephanie Estrada, Clarissa Correa, Natasha Mederos, Kimberly Velazquez, Betzaida Castillo, Kai Griebenow, and Yamixa Delgado (2023) A Synergistic pH-Responsive Serum Albumin-Based Drug Delivery System Loaded with Doxorubicin and Pentacyclic Triterpene Betulinic Acid for Potential Treatment of NSCLC. *BioTech (Basel)*. 2023 Mar; 12(1): 13. doi: 10.3390/biotech12010013 PMID: PMC9944877 PMID: 36810440
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- acute systemic toxicity of (1S, 2E, 4R, 6R, 7E, 11E)-Cembratriene-4,6-diol (4R) in Sprague Dawley Rats. *Nutraceutical*. 2, 60-70.
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48. Angelo A Ruggieri, Luca Livraghi, James J Lewis, Elizabeth Evans, Francesco Cicconardi, Laura Hebberecht, Yadira Ortiz-Ruiz, Stephen H Montgomery, Alfredo Ghezzi, José Arcadio Rodríguez-Martinez, Chris D Jiggins, W Owen McMillan, Brian A Counterman, Riccardo Papa, Steven M Van Belleghem (2022) A butterfly pan-genome reveals that a large amount of structural variation underlies the evolution of chromatin accessibility. *Genome Res* 32(10):1862-1875. doi:10.1101/gr.276839.122. PMID: 36109150 PMC9712634
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