

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

1. 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
2. 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
3. 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
4. Delgado Y, Torres-Sanchez A, Perez D, Torres G, Estrada S, Ortiz-Alvelo N, Vega J, Santos L, Torres A, Madera BA, Ferrer-Acosta Y (2024) *Biomedicine*. 12(10), p. 2272. Bio: 10.3390/biomedicines12102272.
5. 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.
6. 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.
7. 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
8. Prieto-Costas LA, Rivera-Cordero G, Rivera Jose M (2023) Quantifying and modulating protein encapsulation in guanosine-based supramolecular particles. *Bioconjugate Chemistry*. Nov. 15, 34(11), p. 2112-2122.
9. 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
10. Torres-Sanchez A, Torres G, Estrada S, Perez D, Garcia C, Milian M, Velazquez E, Molina V, Delgado Y (2024) Unraveling the impact of six pentacyclic triperpenes regulating metabolic pathways on lung carcinoma cells. *Pharmaceutical*. May 28: 17(6), p. 694. Doi: 10.3390/ph17060694
11. 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.
12. Valdes-Fernandez BN, Ruiz-Jimenez C, Armina-Rodriguez A, Mendez LB, Espino AM. (2024) Fasciola hepatica GST mu-class suppresses the cytokine storm induced by *E. coli*-lipopolysaccharide, whereas it modulates the dynamic of peritoneal macrophages in a mouse model and suppresses the classical activation of macrophages. *Microbiol. Spectr*. 12(1): e0347523. doi: 10.1128/spectrum.03475-23. PMID: 38018982
13. 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.
14. 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.
15. Roa-Vidal, N.; Rodríguez-Aponte, A.S.; Lasalde-Dominicci, J.A.; Capó-Vélez, C.M.; Delgado-Vélez, M. Cholinergic Polarization of Human Macrophages. *Int. J. Mol. Sci.* 2023, 24(21), 15732; <https://doi.org/10.3390/ijms242115732> (registering DOI).
16. Gabriel O. Rodríguez-Vázquez, Adriana O. Diaz-Quiñones, Nataliya Chorna, Iris K. Salgado-Villanueva, Jing Tang, Walter I. Silva Ortiz, Héctor M. Maldonado (2023) Synergistic interactions of cytarabine-adavosertib in leukemic cell lines proliferation and metabolomic endpoints. *Biomedicine & Pharmacotherapy*. 166, 115352

17. 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>
18. 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>
19. 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.
20. 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
21. 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: 36798384
22. 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](https://doi.org/10.3390/biotech12010013) PMID: 36810440
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24. Fernando Vera-Urbina, María F. Dos Santos-Torres, Filipa Godoy-Vitorino and Bianca A. Torres-Hernández (2022) The Gut Microbiome May Help Address Mental Health Disparities in Hispanics: A Narrative Review. *Microorganisms*, 10; p. 763-778
25. Yancy Ferrer-Acosta, Sergio Rodriguez-Massó, Dinely Pérez, Vesna A. Eterovic, P.A. Ferchmin, and Antonio Henrique Martins (2022) Memantine has a nicotinic neuroprotective pathway in acute hippocampal slices after an NMDA insult. *Toxicol In Vitro*. 84: [105453](https://doi.org/10.1016/j.tiv.2022.105453). doi: [10.1016/j.tiv.2022.105453](https://doi.org/10.1016/j.tiv.2022.105453) PMID: 35944748
26. Angelo A Ruggieri, Luca Livraghi, James J Lewis, Elizabeth Evans, Francesco Cicconardi, Laura Hebberecht, Yadira Ortiz-Ruiz, Stephen H Montgomery, Alfredo Ghezzi, José Arcadio Rodriguez-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 PMID: 36109150
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28. Dominguez-Martinez, I., Joaquin-Ovalle, F., Ferrer-Acosta, Y., & Griebenow, K. H. (2022). Folate-Decorated Cross-Linked Cytochrome c Nanoparticles for Active Targeting of Non-Small Cell Lung Carcinoma (NSCLC). *Pharmaceutics*, 14(3), 490.
29. Laboy-Lopez S, Mendez-Fernandez PO, Padilla-Zayas JG and Nicolau E (2022) Bioactive Cellulose Acetate Electrospun Mats as Scaffolds for Bone Tissue Regeneration. *Int. J. Biomater*. 3255039. PMID: 35154326 PMID: 35154326
30. Joaquín-Ovalle, F.M.; Guihurt, G.; Barcelo-Bovea, V.; Hani-Saba, A.; Fontanet-Gómez, N.C.; Ramirez-Paz, J.; Kashino, Y.; Torres-Martinez, Z.; Doble-Cacho, K.; Delinois, L.J.; Delgado, Y.*; Griebenow, K*. Oxidative Stress- and Autophagy- Inducing Effects of PSI-LHCI from *Botryococcus braunii* in Breast Cancer Cells. *BioTech* 2022, 11, 9.
31. Fernando Vera-Urbina, María F. Dos Santos-Torres, Filipa Godoy-Vitorino and Bianca A. Torres-Hernández

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 34. Reyes-Maldonado R, Marie B, Ramírez A (2021) Rearing methods and life cycle characteristics of *Chironomus sp. Florida* (Chironomidae: Diptera): A rapid- developing species for laboratory studies. *PLoS ONE* 16(2): e0247382. PMID 33617595; PMCID: 7899323
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