

Progress Report Publication List

1. 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.
2. 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. Epub 2023 Nov 29. PMID: 38018982
3. 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.
4. 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.
5. 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).
6. Gabriel O. Rodríguez-Vázquez, Adriana O. Díaz-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
7. 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>
8. 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>
9. 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.
10. 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
11. 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 (2023) Somatotopic organization among parallel sensory pathways that promote a grooming sequence in *Drosophila*. [bioRxiv. doi: 10.1101/2023.02.11.528119](https://doi.org/10.1101/2023.02.11.528119) PMID: 36798384
12. 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
13. Sabeva N, Pagan OR, Ferrer-Acosta Y, Eterovic VA and Ferchmin PA (2022) In vivo evaluation of the acute systemic toxicity of (1S, 2E, 4R, 6R, 7E, 11E)-Cembratriene-4,6-diol (4R) in Sprague Dawley Rats. *Nutraceutical.* 2, 60-70.

14. 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
15. 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. doi: [10.1016/j.tiv.2022.105453](https://doi.org/10.1016/j.tiv.2022.105453) PMID: 35944748
16. 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
17. Luz De Dios, Camille Collazo, Yaritza Inostroza-Nieves (Sep 2022) Renin-angiotensin-system increases phosphorylated tau and Reactive Oxygen Species in human cortical neuron cell line. *Biochem Biophys Rep*;32:101355. doi: 10.1016/j.bbrep.2022.101355.eCollection 2022 Dec.
18. 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.
19. 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 PMC8837436
20. 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.
21. 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
22. Rodríguez-Massó SR, Erickson MA, Banks WA, Ulrich H, Martins AH. 2021. The Bradykinin B2 Receptor Agonist (NG291) Causes Rapid Onset of Transient Blood-Brain Barrier Disruption Without Evidence of Early Brain Injury. *Front Neurosci.* 15;15:791709. doi: 10.3389/fnins.2021.791709. PMID: 34975388; PMID: PMC8715084.
23. Kolpakova J, van der Vinne V, Gimenez-Gomez P, Le T, You I, Zhao-Shea R, Velazquez-Marrero C, Tapper AR and Martin GE (2021) Binge alcohol drinking alters synaptic processing of executive and emotional information in core nucleus accumbens medium spiny neurons. *Front. Cell Neurosci.* 15: 742207. PMID: 34867199
24. 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; PMID: 7899323
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26. Delgado-Vélez, Manuel, Orestes Quesada, Juan C. Villalobos-Santos, Rafael Maldonado-Hernández, Guillermo Asmar-Rovira, Raymond C. Stevens, and José A. Lasalde-Dominicci. (2021). "Pursuing High-Resolution Structures of Nicotinic Acetylcholine Receptors: Lessons Learned from Five Decades" *Molecules* 26. PMID: 34641297; PMID: 8510392.
27. Ríos SC, Colón Sáez JO, Quesada O, Figueroa KQ, Lasalde Dominicci JA. Disruption of the cholinergic anti-inflammatory response by R5-tropic HIV-1 protein gp120JRFL. *J Biol Chem.* 2021 Jan-Jun; 296:100618. Epub 2021 Mar 31. PMID: 33811859; PMID: PMC8102909.
28. Maldonado-Díaz C, Vazquez M, Marie B (2021) A comparison of three different methods of eliciting rapid activity-dependent synaptic plasticity at the *Drosophila* NMJ. *PLoS ONE* 16(11): e0260553. PMID:34847197; PMID: 8631638
29. Rosa-Casillas M, de Jesús PM, Vicente Rodríguez LC, Habib MR, Croll RP, Miller MW. Identification and localization of a gonadotropin-releasing hormone- related neuropeptide in *Biomphalaria*, an intermediate host for schistosomiasis. *J Comp Neurol.* 2021 Jun;529(9):2347-2361. Epub 2021 Jan 27. PMID: 33368267;

PMCID: PMC8142820.

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35. Maldonado-Hernández R, Quesada O, Colón-Sáez JO, Lasalde-Dominicci JA. 2020. Sequential purification and characterization of *Torpedo californica* nAChR- DC supplemented with CHS for high-resolution crystallization studies. *Anal Biochem.* 1; 610:113887. doi: 10.1016/j.ab.2020.113887. Epub 2020 Aug 4. PMID: 32763308; PMCID: PMC7669685.
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