

Progress Report Publication List

1. 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.
2. 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).
3. 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
4. Vicente-Rodríguez 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>
5. 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>
6. 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.
7. 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
8. 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](https://doi.org/10.1101/2023.02.11.528119). doi: 10.1101/2023.02.11.528119 PMID: PMC9934617 PMID: 36798384
9. Zally Torres-Martinez, Daraishka Pérez, Grace Torres, Sthephanie 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
10. 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.
11. 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
12. 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 PMID: PMC10026604 PMID: 35944748
13. 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 Bellegghem (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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15. 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.
16. 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
17. 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.
18. 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
19. 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; PMCID: PMC8715084.
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22. Ayup, M.M.; Gärtner, P.; Agosto-Rivera, J.L.; Marendy, P.; de Souza, P.; Galindo-Cardona, A. (2021). Analysis of Honeybee Drone Activity during the Mating Season in Northwestern Argentina. *Insects* , 12, 566. PMID: 34205532; PMCID: 8234112
23. 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; PMCID: 8510392.
24. 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; PMCID: PMC8102909.
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26. 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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28. Colón-Cruz L, Rodriguez-Morales R, Santana-Cruz A, Cantres-Velez J, Torrado- Tapias A, Lin SJ, Yudowski G, Kensler R, Marie B, Burgess SM, Renaud O, Varshney GK, Behra M. 2021. Cnr2 Is Important for Ribbon Synapse Maturation and Function in Hair Cells and Photoreceptors. *Front Mol Neurosci.* 20; 14:624265. doi: 10.3389/fnmol.2021.624265. PMID: 33958989; PMCID: PMC8093779.
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- Encapsulation of Dyes in Supramolecular Particles. *Langmuir*. 2;37(43):12681-12689. doi: 10.1021/acs.langmuir.1c02065. Epub 2021 Oct 19. PMID: 34665963.
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 32. 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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