

Progress Report Publication List

1. 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>
2. Pearl Akamine, José A. González-Feliciano, Ruth Almodóvar, Gloriner Morell, Javier Rivera, Coral M. Capó-Vélez, Manuel Delgado-Vélez, Luis Prieto-Costas 4, Bismark Madera 1,3, Daniel Eichinger 2, Ignacio Pino 2, José H. Rivera 2, José Ortiz-Ubarri, José M. Rivera, Abel Baerga-Ortiz and José A. Lasalde-Dominicci (2023) Optimizing the Production of gp145, an HIV-1 Envelope Glycoprotein Vaccine Candidate and Its Encapsulation in Guanosine Microparticles. *Vaccines*. 11 (975), p.1-22.
3. Vicente-Rodríguez LC, Torres-Arroyo AC, Hernández-Vazquez A, Rosa Casillas M, Bracho-Rincón DP, Méndez de Jesús P, Behra ML, Habib MR, Zhou X-N, Rosenthal JJC, Miller MW. The FMRF-NH₂ gated sodium channel of *Biomphalaria glabrata*: Localization and expression following infection by *Schistosoma mansoni*. *PLOS Neglected Tropical Diseases*. Accepted for publication.
4. 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>
5. 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.
6. 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, 1-23
7. 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
8. 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
9. 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.
10. 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
11. 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
12. 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 PMC9712634

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14. 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.
15. 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
16. 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.
17. 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
18. 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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20. 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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22. 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.
23. 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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27. Colón-Cruz L, Rodríguez-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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