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

1. Pagán-Rivera LH, Godoy-Vitorino F, Ocasio-Rivera SE, Santiago-Gascot ME, González V, Santiago JM, Salgado IK, Torrado-Tapias A, Colón-Mercado JM, García-Guay C , Miranda JD. (2026) Tamoxifen Promotes Sustained *Bifidobacterium* Enrichment in the Gut Microbiota of Male and Female Rats After Spinal Cord Injury. Int J Mol Sci.; 27(19):8729.
   PMID: 42883973. PMCID: PMC13664996. DOI: 10.3390/ijms27198729
2. Wu C, Ayala K, Collazo-Hernández S, Pérez-Salvá MS, Medina-Berríos N, Rosa-Suárez FM, Veloz-Bonilla A, Villanueva-Nogueras RA, Lavín Flores A, López-Pérez KA, Ortiz-Gómez V, Prieto-Costas L, Maldonado-Hernández R, Bayro MJ, Morell G, Weiner BR (2026) Improving the Hydrophilicity of the Drugs Paclitaxel, Violacein, and Tetrandrine Using Carbon-Based Quantum Dots. Nanomaterials; 16 (18): 1166
   DOI: 10.3390/nano16181166 PMCID: PMC13610360 PMID: 42784175
3. De Leon Gonzalez KM and Burno M (2026) Autophagy, the Ubiquitin proteasome system, and the MAPK pathway control the temperature dependence of synaptic growth. Genetics. 234(2):iyag226
   PMID: 42639846 DOI: 10.1093/genetics/iyag226
4. Garcia Y, Vázquez R, Pomales-Inostroza YP, Castaño S, Rodriguez F, Bailey B, Inostroza-Nieves Y (2026) Endothelin-1 Signaling Mediates Hypoxia-Induced Microglial Activation Through Reactive Oxygen Species and Mitogen-Activated Protein Kinase Pathways. ASN neuro; 18 (1). 2698262
   PMID: 42555850 PMCID: PMC13449843 DOI: 10.1080/17590914.2026.2698262
5. Ares-Estrada J, García-Quiñones I, Lasalde-Dominicci JA, Ballester LY, Aung PP, Delgado-Vélez M. (2026) The Nicotinic Acetylcholine Receptor-Macrophage Axis in Merkel Cell Carcinoma: Evidence, Limitations, and Therapeutic Hypotheses. International journal of molecular sciences. 16; 27 (14): 6331
   PMID: 42511673 PMCID: PMC13410160 DOI: 10.3390/ijms27146331
6. Colón-Morales JJ, Morales-Lozada Y, Madera B, Báez-Bravo G, Wong JW, Baerga-Ortiz A (2026) Cellular effects of outer membrane vesicles isolated from pks-positive strains of bacteria. Research square. Rs.3.rs-9818453
   PMID: 42326527 PMCID: PMC13278320 DOI: 10.21203/rs.3.rs-9818453/v1
7. Rivera-Rivera AJ, Gracia-Ayala PN, Velázquez Pulliza AL, Martins AH, Ferrer-Acosta Y (2026) An In Vitro Model to Study Drugs That Affect Macrophage Adhesion to Murine Brain Endothelial Cells After Proinflammatory Insults of LPS and Pilocarpine. Bio-protocol. 16 (18): e5825
   PMID: 42780715 PMCID: PMC13598658 DOI: 10.21769/BioProtoc.5825
8. 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
9. Bello, SA, 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
10. 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
11. Rodríguez-Cordero, J.A., Dorta Avilés, M., Rodriguez-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)
12. Medina-Berríos 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
13. Peta Martinez NA, Arnaldi MR, Santiago-Rodriguez TM, Rodriguez-Fernandez IA. (2026) Microbiota-Based Interventions Differentially Rescue Gut and Social Behavior Phenotypes in *Drosophila* with Kdm5 Deficiency. Dev Neurosc. 21: 1-21 doi: 10.1159/000552681 PMID: 42166402
14. 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.
15. 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
16. 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
17. 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
18. 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
19. 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
20. Pagán-Rivera LH, Godoy-Vitorino F, Meléndez-Vázquez NM, Ocasio-Rivera SE, Santiago-Gascot ME, Santiago JM, Salgado I, González V, Martinez-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
21. Reyes-Maldonado, Roberto; Ramírez, Alonso; Marie, Bruno (2026) The Neuromuscular system of Chironomus vitellinus (Diptera: Chironomidae). PLoS One. 21(1):e0326394. Doi: 10.1371/journal.pone.0326394 PMID: 41610131
22. 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.
23. Calle-Schuler, Steven A; Santana-Cruz, Alexis E; Kmecová, Lucia; Hampel, Stefanie; Seeds, Andrew M (2026) A comprehensive mechanosensory connectome reveals a somatotopically organized neural circuit architecture controlling stimulus-aimed grooming of the Drosophila head. Elife. 8; 14: RP108044 doi: 10.7554/eLife.108044 PMID: 42253234
24. Lloret Torres, Mario E; Rivas Jiménez, Arelys; 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
25. 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.
26. 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.
27. 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).
28. Cunningham CR, Dimopoulos YP, García-Quiñones IM, Milton DR, Delgado-Vélez M, Cho WC, Prieto VG, Lasalde-Dominicci JA, Ballester LY, Aung PP. Nicotinic Acetylcholine Receptor Expression in Merkel Cell Carcinoma Is Associated With Clinical and Histopathologic Parameters. J Cutan Pathol. 2025 Jan 15. doi: 10.1111/cup.14773. Epub ahead of print. PMID: 39814046.

29. 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
30. 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
31. Daraishka Pérez-Caraballo, Grace Torres , Sthephanie Estrada , Yaritza Inostroza-Nieves, Dinely Pérez , Pedro Ferchmin , Yamixa Delgado, Yancy Ferrer-Acosta. Neuroprotection and activation of anti-inflammatory and plasticity mechanisms by PLC-β 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
32. 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
33. 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) Deferasirox's Anti-Chemoresistanceand Anti-Metastatic Effect on Non-Small Cell Lung Carcinoma. Biomedicine. 12(10), p. 2272. Bio: 10.3390/biomedicines12102272.
34. Villalobos-Santos JC, Carrasquillo-Rivera M, Rodriguez-Cordero JA, Quesada O and Lasalde-Dominicci JA (2024) Insights into crystallization of neuronal nicotinic a4b2 receptor in polarized lipid matrices. Crystals. 14(1), 889. Doi: org/10.3390/cryst14100889.
35. 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
36. 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.
37. 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
38. 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
39. 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.
40. 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-lippolysaccharide, 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
41. 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.
42. 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.
43. 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.
44. 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).

45. 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
46. 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
47. 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
48. 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.
49. 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
50. 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 PMCID: PMC9934617 PMID: 36798384
51. 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 PMCID: PMC9944877 PMID: 36810440
52. 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.
53. 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
54. 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 PMCID: PMC10026604 PMID: 35944748
55. 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
56. 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.
57. 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.
58. 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
59. 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.

60. 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.
61. 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. PMC8635139; PMID: 34867199
62. 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
63. 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
64. 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.
65. 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.
66. 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; PMCID: 8631638
67. 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.
68. Van Belleghem SM, Lewis JJ, Rivera ES, Papa R. Dev. 2021. Heliconius butterflies: a window into the evolution and development of diversity. Curr Opin Genet ;69:72-81. doi: 10.1016/j.gde.2021.01.010. Epub 2021 Mar 11. PMID: 33714874; PMCID: PMC8364860.
69. 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.
70. Rolón-Martínez S, Habib MR, Mansour TA, Díaz-Ríos M, Rosenthal JJC, Zhou XN, Croll RP, Miller MW. 2021. FMRF-NH2 -related neuropeptides in Biomphalaria spp., intermediate hosts for schistosomiasis: Precursor organization and immunohistochemical localization. J Comp Neurol. 529(13):3336-3358. doi: 10.1002/cne.25195. Epub 2021 Jun 11. PMID: 34041754; PMCID: PMC8273141.
71. Prieto-Costas LA, Milton L, Quiñones-Jurgensen CM, Rivera JM. 2021. Screening and Quantification of the Encapsulation of Dyes in Supramolecular Particles. Langmuir. 2;37(43):12681-12689. doi: 10.1021/acs.langmuir.1c02065. Epub 2021 Oct 19. PMID: 34665963.
72. Borges-Vélez G, Rosado-Philippi J, Cantres-Rosario YM, Carrasquillo-Carrion K, Roche-Lima A, Pérez-Vargas J, González-Martínez A, Correa-Rivas MS, Meléndez LM. 2021. Zika virus infection of the placenta alters extracellular matrix proteome. J Mol Histol. 15:10.1007/s10735-021-09994-w. doi: 10.1007/s10735-021-09994-w. Epub ahead of print. PMID: 34264436; PMCID: PMC8760362.
73. 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.
74. De Jesús-Olmo LA, Rodríguez N, Francia M, Alemán-Rios J, Pacheco-Agosto CJ, Ortega-Torres J, Nieves R, Fuenzalida-Uribe N, Ghezzi A, Agosto JL. 2020. Pumilio Regulates Sleep Homeostasis in Response to Chronic Sleep Deprivation in Drosophila melanogaster. Front Neurosci. 17; 14:319. doi:

10.3389/fnins.2020.00319. PMID: 32362810; PMCID: PMC7182066.
75. Nieves-Ríos C, Alvarez-Falcón S, Malavez S, Rodriguez-Otero J, García-Arrarás JE. 2020. The nervous system component of the mesentery of the sea cucumber Holothuria glaberrima in normal and regenerating animals. Cell Tissue Res. 380(1):67-77. doi: 10.1007/s00441-019-03142-3. Epub 2019 Dec 21. PMID: 31865468; PMCID: PMC7073298.
76. Miller MW. 2020. Dopamine as a Multifunctional Neurotransmitter in Gastropod Molluscs: An Evolutionary Hypothesis. Biol Bull.;239(3):189-208. doi: 10.1086/711293. Epub 2020 Nov 20. PMID: 33347799; PMCID: PMC8016498.
77. Habib MR, Ghoname SI, Ali RE, El-Karim RMG, Youssef AA, Croll RP, Miller MW. 2020.Biochemical and apoptotic changes in the nervous and ovotestis tissues of Biomphalaria alexandrina following infection with Schistosoma mansoni. Exp Parasitol. 2020 Jun;213:107887. doi: 10.1016/j.exppara. 107887. Epub 2020 Mar 26. PMID: 32224062; PMCID: PMC8105080.
78. Lewis JJ, Van Belleghem SM, Papa R, Danko CG, Reed RD. 2020. Many functionally connected loci foster adaptive diversification along a neotropical hybrid zone. Sci Adv. 25;6(39):eabb8617. doi: 10.1126/sciadv.abb8617. PMID: 32978147; PMCID: PMC7518860
79. Tasker JG, Prager-Khoutorsky M, Teruyama R, Lemos JR, Amstrong WE. 2020. Advances in the neurophysiology of magnocellular neuroendocrine cells. J Neuroendocrinol. 32(4):e12826. doi: 10.1111/jne.12826. Epub 2020 Feb 5. PMID: 31917875; PMCID: PMC7192795.
80. Pearson CA, Moore DM, Tucker HO, Dekker JD, Hu H, Miquelajáuregui A, Novitch BG. 2020. Foxp1 Regulates Neural Stem Cell Self-Renewal and Bias Toward Deep Layer Cortical Fates. Cell Rep. 11;30(6):1964-1981.e3. doi: 10.1016/j.celrep.2020.01.034. PMID: 32049024; PMCID: PMC8397815.
81. Delinois LJ, Peón H, Villalobos-Santos JC, Ramírez-Paz J, Miller J, Griebenow KH, Tinoco AD. 2020. A Cytochrome c-Chlorotoxin Hybrid Protein as a Possible Antiglioma Drug. ChemMedChem. 18;15(22):2185-2192. doi: 10.1002/cmdc.202000373. Epub 2020 Oct 20. PMID: 32918396; PMCID: PMC7722079.
82. Maldonado-Hernández R, Quesada O, Lasalde-Dominicci JA. 2020. Biophysical characterization dataset of native nicotinic acetylcholine receptor in lipid-like detergent complexes. Data Brief. 27;32:106230. doi: 10.1016/j.dib.2020.106230. PMID: 32939382; PMCID: PMC7479489.
83. Hampel S, Eichler K, Yamada D, Bock DD, Kamikouchi A, Seeds AM. 2020. Distinct subpopulations of mechanosensory chordotonal organ neurons elicit grooming of the fruit fly antennae. Elife. 26;9:e59976. doi: 10.7554/eLife.59976. PMID: 33103999; PMCID: PMC7652415.
84. Velázquez-Marrero C, Custer EE, Marrero H, Ortiz-Miranda S, Lemos JR. 2020. Voltage-induced Ca2+ release by ryanodine receptors causes neuropeptide secretion from nerve terminals. J Neuroendocrinol. 32(4):e12840. doi: 10.1111/jne.12840. Epub 2020 Mar 29. PMID: 32227430.
85. Martínez M, Martínez NA, Miranda JD, Maldonado HM, Silva Ortiz WI. 2019. Caveolin-1 Regulates P2Y2 Receptor Signaling during Mechanical Injury in Human 1321N1 Astrocytoma. Biomolecules. 18;9(10):622. doi: 10.3390/biom9100622. PMID: 31635212; PMCID: PMC6843573.
86. Acker MJ, Habib MR, Beach GA, Doyle JM, Miller MW, Croll RP. 2019. An immunohistochemical analysis of peptidergic neurons apparently associated with reproduction and growth in Biomphalaria alexandrina. Gen Comp Endocrinol. 1;280:1-8. doi: 10.1016/j.ygcen.2019.03.017. Epub 2019 Mar 26. PMID: 30923005; PMCID: PMC6635034.
87. Rivera-Oliver M, Moreno E, Álvarez-Bagnarol Y, Ayala-Santiago C, Cruz-Reyes N, Molina-Castro GC, Clemens S, Canela EI, Ferré S, Casadó V, Díaz-Ríos M. 2019. Adenosine A1-Dopamine D1 Receptor Heteromers Control the Excitability of the Spinal Motoneuron. Mol Neurobiol. 56(2):797-811. doi: 10.1007/s12035- 018-1120-y. Epub 2018 May 24. PMID: 29797183; PMCID: PMC6252157.
88. Garton DR, Ross SG, Maldonado-Hernández R, Quick M, Lasalde-Dominicci JA, Lizardi-Ortiz JE. 2019. Amphetamine enantiomers inhibit homomeric α7 nicotinic receptor through a competitive mechanism and within the intoxication levels in humans. Neuropharmacology. 144:172-183. doi: 10.1016/j.neuropharm.2018.10.032. Epub 2018 Oct 23. PMID: 30359640; PMCID: PMC6286198.
89. Miller MW. 2019. GABA as a Neurotransmitter in Gastropod Molluscs. Biol Bull. 236(2):144-156. doi: 10.1086/701377. Epub 2019 Jan 16. PMID: 30933636; PMCID: PMC7710352.
90. Beach GA, Habib MR, El Hiani Y, Miller MW, Croll RP. 2019. Localization of keyhole limpet hemocyanin-like immunoreactivity in the nervous system of Biomphalaria alexandrina. J Neurosci Res. 97(11):1469-1482. doi: 10.1002/jnr.24497. Epub 2019 Aug 4. PMID: 31379045.
91. Díaz-Cartagena DC, Hernández-Cancel G, Bracho-Rincón DP, González- Feliciano JA, Cunci L, González CI, Cabrera CR. 2019. Label-Free Telomerase Activity Detection via Electrochemical Impedance Spectroscopy. ACS Omega. 1;4(16):16724-16732. doi: 10.1021/acsomega.9b00783. PMID: 31646217;

PMCID: PMC6796945.
92. Saxena M, Delgado Y, Sharma RK, Sharma S, Guzmán SLPL, Tinoco AD, Griebenow K. 2018. Inducing cell death in vitro in cancer cells by targeted delivery of cytochrome c via a transferrin conjugate. PLoS One. 12;13(4):e0195542. doi: 10.1371/journal.pone.0195542. PMID: 29649293; PMCID: PMC5896948.
93. Colón JM, González PA, Cajigas Á, Maldonado WI, Torrado AI, Santiago JM, Salgado IK, Miranda JD. 2018. Continuous tamoxifen delivery improves locomotor recovery 6h after spinal cord injury by neuronal and glial mechanisms in male rats. Exp Neurol. 299(Pt A):109-121. doi: 10.1016/j.expneurol.2017.10.006. Epub 2017 Oct 13. PMID: 29037533; PMCID: PMC5723542.
94. Ramirez-Roman ME, Billini CE, Ghezzi A. 2018. Epigenetic Mechanisms of Alcohol Neuroadaptation: Insights from Drosophila. J Exp Neurosci. Jun 4;12:1179069518779809. doi: 10.1177/1179069518779809. PMID: 29899666; PMCID: PMC5990879.
95. Vaasjo LO, Quintana AM, Habib MR, Mendez de Jesus PA, Croll RP, Miller MW. 2018. GABA-like immunoreactivity in Biomphalaria: Colocalization with tyrosine hydroxylase-like immunoreactivity in the feeding motor systems of panpulmonate snails. J Comp Neurol. 1;526(11):1790-1805. doi: 10.1002/cne.24448. Epub 2018 May 6. PMID: 29633264; PMCID: PMC5990452.
96. Ferré S, Díaz-Ríos M, Salamone JD, Prediger RD. 2018. New Developments on the Adenosine Mechanisms of the Central Effects of Caffeine and Their Implications for Neuropsychiatric Disorders. J Caffeine Adenosine Res. 1;8(4):121-131. doi: 10.1089/caff.2018.0017. Epub 2018 Dec 7. PMID: 30596206; PMCID: PMC6306650.
97. Delgado-Vélez M, Lasalde-Dominicci JA. 2018. The Cholinergic Anti- Inflammatory Response and the Role of Macrophages in HIV-Induced Inflammation. Int J Mol Sci. 16;19(5):1473. doi: 10.3390/ijms19051473. PMID: 29772664; PMCID: PMC5983673.
98. Brown JW, Schaub BM, Klusas BL, Tran AX, Duman AJ, Haney SJ, Boris AC, Flanagan MP, Delgado N, Torres G, Rolón-Martínez S, Vaasjo LO, Miller MW, Gillette R. 2018. A role for dopamine in the peripheral sensory processing of a gastropod mollusc. PLoS One. 26;13(12):e0208891. doi: 10.1371/journal.pone.0208891. PMID: 30586424; PMCID: PMC6306152.
99. Capó-Vélez CM, Delgado-Vélez M, Báez-Pagán CA, Lasalde-Dominicci JA. 2018. Nicotinic Acetylcholine Receptors in HIV: Possible Roles During HAND and Inflammation. Cell Mol Neurobiol. 38(7):1335-1348. doi: 10.1007/s10571- 018-0603-8. Epub 2018 Jul 14. PMID: 30008143; PMCID: PMC6133022.
100. Capó-Vélez CM, Morales-Vargas B, García-González A, Grajales-Reyes JG, Delgado-Vélez M, Madera B, Báez-Pagán CA, Quesada O, Lasalde-Dominicci JA. 2018. The alpha7-nicotinic receptor contributes to gp120-induced neurotoxicity: implications in HIV-associated neurocognitive disorders. Sci Rep. 29;8(1):1829. doi: 10.1038/s41598-018-20271-x. PMID: 29379089; PMCID: PMC5788855
101. Thapa B, Diaz-Diestra D, Santiago-Medina C, Kumar N, Tu K, Beltran-Huarac J, Jadwisienczak WM, Weiner BR, Morell G. 2018. T1- and T2-weighted Magnetic Resonance Dual Contrast by Single Core Truncated Cubic Iron Oxide Nanoparticles with Abrupt Cellular Internalization and Immune Evasion. ACS Appl Bio Mater. 16;1(1):79-89. doi: 10.1021/acsabm.8b00016. Epub 2018 Jun 15. PMID: 30094416; PMCID: PMC6077774.
102. Ferré S, Quiroz C, Guitart X, Rea W, Seyedian A, Moreno E, Casadó-Anguera V, Díaz-Ríos M, Casadó V, Clemens S, Allen RP, Earley CJ, García-Borreguero D. 2018. Pivotal Role of Adenosine Neurotransmission in Restless Legs Syndrome. Front Neurosci. 8;11:722. doi: 10.3389/fnins.2017.00722. PMID: 29358902; PMCID: PMC5766678.
103. Diaz-Diestra D, Thapa B, Badillo-Diaz D, Beltran-Huarac J, Morell G, Weiner BR. 2018. Graphene Oxide/ZnS:Mn Nanocomposite Functionalized with Folic Acid as a Nontoxic and Effective Theranostic Platform for Breast Cancer Treatment. Nanomaterials (Basel). Jun 30;8(7):484. doi: 10.3390/nano8070484. PMID: 29966355; PMCID: PMC6071040.
104. Manfredi B, Morales-Ortíz J, Díaz-Díaz LM, Hernandez-Matias L, Barreto- Vázquez D, Menéndez-Pérez J, Rodríguez-Cordero JA, Villalobos-Santos JC, Santiago-Rivera E, Rivera-Dompenciel A, Lozada-Delgado EL, Kuchibhotla M, Carrasquillo-Carrión K, Roche-Lima A, Washington AV. The Characterization of Monoclonal Antibodies to Mouse TLT-1 Suggests That TLT-1 Plays a Role in Wound Healing. Monoclon Antib Immunodiagn Immunother. 2018 Apr;37(2):78- 86. doi: 10.1089/mab.2017.0063. PMID: 29708866; PMCID: PMC5930940.
105. Morales-Ortíz J, Deal V, Reyes F, Maldonado-Martínez G, Ledesma N, Staback F, Croft C, Pacheco A, Ortiz-Zuazaga H, Yost CC, Rowley JW, Madera B, John AS, Chen J, Lopez J, Rondina MT, Hunter R, Gibson A, Washington AV. 2018. Platelet-derived TLT-1 is a prognostic indicator in ALI/ARDS and prevents tissue damage in the lungs in a mouse model. Blood. 6;132(23):2495-2505. doi: 10.1182/blood-2018-03-841593.

Epub 2018 Oct 3. PMID: 30282800; PMCID: PMC6284217
106. Jessica MO, Fiorella R, Ocatavio S, Linnette R, Nahomy L, Kanth MB, Bismarck M, Rondina MT, Valance WA. 2018. Tlt-1-controls early thrombus formation and stability by facilitating aiibb3 outside-in signaling in mice. Int J Adv Res (Indore). 6(3):1143-1149. doi: 10.21474/IJAR01/7469. Epub 2018 Jul 27. PMID: 30931337; PMCID: PMC6437137. ".
107. Ferrick-Kiddie EA, Rosenthal JJ, Ayers GD, Emeson RB. 2017. Mutations underlying Episodic Ataxia type-1 antagonize Kv1.1 RNA editing. Sci Rep. 20;7:41095. doi: 10.1038/srep41095. PMID: 28216637; PMCID: PMC5316942.
108. Alicea D, Perez M, Maldonado C, Dominicci-Cotto C, Marie B. 2017 Cortactin Is a Regulator of Activity-Dependent Synaptic Plasticity Controlled by Wingless. J Neurosci. 22;37(8):2203-2215. doi: 10.1523/JNEUROSCI.1375-16.2017. Epub 2017 Jan 25. PMID: 28123080; PMCID: PMC5338761.
109. Nogueras-Ortiz C, Roman-Vendrell C, Mateo-Semidey GE, Liao YH, Kendall DA, Yudowski GA. 2017. Retromer stops beta-arrestin 1-mediated signaling from internalized cannabinoid 2 receptors. Mol Biol Cell. 15;28(24):3554-3561. doi: 10.1091/mbc.E17-03-0198. Epub 2017 Sep 27. PMID: 28954865; PMCID: PMC5683765.
110. Hampel S, McKellar CE, Simpson JH, Seeds AM. 2017. Simultaneous activation of parallel sensory pathways promotes a grooming sequence in Drosophila. Elife. 9;6:e28804. doi: 10.7554/eLife.28804. PMID: 28887878; PMCID: PMC5614557.
111. Figueroa CM, Suárez BN, Molina AM, Fernández JC, Torres Z, Griebenow K. 2017 Feb. Smart Release Nano-formulation of Cytochrome C and Hyaluronic Acid Induces Apoptosis in Cancer Cells. J Nanomed Nanotechnol. 8(1):427. doi: 10.4172/2157-7439.1000427. Epub 2017 Feb 24. PMID: 28706754; PMCID: PMC5505692.
112. Loza-Rosas SA, Vázquez-Salgado AM, Rivero KI, Negrón LJ, Delgado Y, Benjamín-Rivera JA, Vázquez-Maldonado AL, Parks TB, Munet-Colón C, Tinoco AD. 2017. Expanding the Therapeutic Potential of the Iron Chelator Deferasirox in the Development of Aqueous Stable Ti(IV) Anticancer Complexes. Inorg Chem. 17;56(14):7788-7802. doi: 10.1021/acs.inorgchem.7b00542. Epub 2017 Jun 23. PMID: 28644630; PMCID: PMC5557045.
113. Melendez RI, Roman C, Capo-Velez CM, Lasalde-Dominicci JA. 2016. Decreased glial and synaptic glutamate uptake in the striatum of HIV-1 gp120 transgenic mice. J Neurovirol. 22(3):358-65. doi: 10.1007/s13365-015-0403-6. Epub 2015 Nov 13. PMID: 26567011; PMCID: PMC4866904.
114. Padilla-Morales LF, Colón-Sáez JO, González-Nieves JE, Quesada-González O, Lasalde-Dominicci JA. 2015. Functionality and stability data of detergent purified nAChR from Torpedo using lipidic matrixes and macroscopic electrophysiology. Data Brief. 25;6:433-7. doi: 10.1016/j.dib.2015.12.010. PMID: 26870753; PMCID: PMC4712261.
115. Morales-Cruz M, Cruz-Montañez A, Figueroa CM, González-Robles T, Davila J, Inyushin M, Loza-Rosas SA, Molina AM, Muñoz-Perez L, Kucheryavykh LY, Tinoco AD, Griebenow K. 2016. Combining Stimulus-Triggered Release and Active Targeting Strategies Improves Cytotoxicity of Cytochrome c Nanoparticles in Tumor Cells. Mol Pharm. 1;13(8):2844-54. doi: 10.1021/acs.molpharmaceut.6b00461. Epub 2016 Jun 27. PMID: 27283751; PMCID: PMC4969193.
116. Ramos FM, Delgado-Vélez M, Ortiz ÁL, Báez-Pagán CA, Quesada O, Lasalde- Dominicci JA. 2016. Expression of CHRFAM7A and CHRNA7 in neuronal cells and postmortem brain of HIV-infected patients: considerations for HIV-associated neurocognitive disorder. J Neurovirol. 22(3):327-35. doi: 10.1007/s13365-015- 0401-8. Epub 2015 Nov 13. PMID: 26567012; PMCID: PMC4866909.
117. Velázquez-Marrero C, Burgos A, García JO, Palacio S, Marrero HG, Bernardo A, Pérez-Laspiur J, Rivera-Oliver M, Seale G, Treistman SN. 2016. Alcohol Regulates BK Surface Expression via Wnt/β-Catenin Signaling. J Neurosci. 12;36(41):10625-10639. doi: 10.1523/JNEUROSCI.0491-16.2016. PMID: 27733613; PMCID: PMC5059430.
118. Báez-Pagán CA, Del Hoyo-Rivera N, Quesada O, Otero-Cruz JD, Lasalde- Dominicci JA. 2016. Heterogeneous Inhibition in Macroscopic Current Responses of Four Nicotinic Acetylcholine Receptor Subtypes by Cholesterol Enrichment. J Membr Biol. 249(4):539-49. doi: 10.1007/s00232-016-9896-z. Epub 2016 Apr 26. PMID: 27116687; PMCID: PMC4945412.
119. Colón JM, Torrado AI, Cajigas Á, Santiago JM, Salgado IK, Arroyo Y, Miranda JD. 2016. Tamoxifen Administration Immediately or 24 Hours after Spinal Cord Injury Improves Locomotor Recovery and Reduces Secondary Damage in Female Rats. J Neurotrauma. 15;33(18):1696-708. doi: 10.1089/neu.2015.4111. Epub 2016 Apr 8. PMID: 26896212; PMCID: PMC5035917.
120. Padilla-Morales LF, Colón-Sáez JO, González-Nieves JE, Quesada-González O, Lasalde-Dominicci JA.

2016. Assessment of the functionality and stability of detergent purified nAChR from Torpedo using lipidic matrixes and macroscopic electrophysiology. Biochim Biophys Acta. 1858(1):47-56. doi: 10.1016/j.bbamem.2015.10.002. Epub 2015 Oct 8. PMID: 26454038; PMCID: PMC4663142.
121. Molina AM, Morales-Cruz M, Benítez M, Berríos K, Figueroa CM, Griebenow K. 2016. Redox-sensitive cross-linking enhances albumin nanoparticle function as delivery system for photodynamic cancer therapy. J Nanomed Nanotechnol.6(3):294. doi: 10.4172/2157-7439.1000294. Epub 2015 May 22. PMID: 27088048; PMCID: PMC4827353.
122. Negrón LM, Díaz TL, Ortiz-Quiles EO, Dieppa-Matos D, Madera-Soto B, Rivera JM. 2016. Organic Nanoflowers from a Wide Variety of Molecules Templated by a Hierarchical Supramolecular Scaffold. Langmuir. 15;32(10):2283-90. doi: 10.1021/acs.langmuir.5b03946. Epub 2016 Mar 1. PMID: 26901110; PMCID: PMC4896646.
123. Figueroa JD, Serrano-Illan M, Licero J, Cordero K, Miranda JD, De Leon M. 2016. Fatty Acid Binding Protein 5 Modulates Docosahexaenoic Acid-Induced Recovery in Rats Undergoing Spinal Cord Injury. J Neurotrauma 1;33(15):1436- 49. doi: 10.1089/neu.2015.4186. Epub 2016 Mar 29. PMID: 26715431; PMCID: PMC4971412.
124. Montiel-González MF, Vallecillo-Viejo IC, Rosenthal JJ. 2016. An efficient system for selectively altering genetic information within mRNAs. Nucleic Acids Res.1;44(21):e157. doi: 10.1093/nar/gkw738. Epub 2016 Aug 23. PMID: 27557710; PMCID: PMC5137428.
125. Duprey-Díaz MV, Blagburn JM, Blanco RE. 2016. Optic nerve injury upregulates retinoic acid signaling in the adult frog visual system. J Chem Neuroanat. 77:80- 92. doi: 10.1016/j.jchemneu.2016.05.008. Epub 2016 May 27. PMID: 27242163; PMCID: PMC5048580.
126. Cabezas-Bou E, De León-Arbucias J, Matos-Vergara N, Álvarez-Bagnarol Y, Ortega-Guzmán J, Narváez-Pérez K, Cruz-Bermúdez ND, Díaz-Ríos M. 2016. A Survey of Energy Drink Consumption Patterns Among College Students at a Mostly Hispanic University. J Caffeine Res. 1;6(4):154-162. doi: 10.1089/jcr.2016.0011. PMID: 28078169; PMCID: PMC5165673.
127. Delgado-Peraza F, Ahn KH, Nogueras-Ortiz C, Mungrue IN, Mackie K, Kendall DA, Yudowski GA. 2016. Mechanisms of Biased β-Arrestin-Mediated Signaling Downstream from the Cannabinoid 1 Receptor. Mol Pharmacol. 89(6):618-29. doi: 10.1124/mol.115.103176. Epub 2016 Mar 23. Erratum in: Mol Pharmacol. 2016 Jul;90(1):62. PMID: 27009233; PMCID: PMC4885504.
128. Quesada O, González-Freire C, Ferrer MC, Colón-Sáez JO, Fernández-García E, Mercado J, Dávila A, Morales R, Lasalde-Dominicci JA. 2016. S the lipidic basis for the preparation of functional nicotinic acetylcholine receptor detergent complexes for structural studies. Sci Rep. 19;6:32766. doi: 10.1038/srep32766. PMID: 27641515; PMCID: PMC5027579.
129. Martinez NA, Ayala AM, Martinez M, Martinez-Rivera FJ, Miranda JD, Silva WI. 2016. Caveolin-1 Regulates the P2Y2 Receptor Signaling in Human 1321N1 Astrocytoma Cells. J Biol Chem. 3;291(23):12208-22. doi: 10.1074/jbc.M116.730226. Epub 2016 Apr 18. PMID: 27129210; PMCID: PMC4933270.
130. Duprey-Díaz MV, Blagburn JM, Blanco RE. Exogenous Modulation of Retinoic Acid Signaling Affects Adult RGC Survival in the Frog Visual System after Optic Nerve Injury. PLoS One. 2016 Sep 9;11(9):e0162626. doi: 10.1371/journal.pone.0162626. PMID: 27611191; PMCID: PMC5017682.
131. Colón JM, Miranda JD. 2016. Tamoxifen: an FDA approved drug with neuroprotective effects for spinal cord injury recovery. Neural Regen Res. 11(8):1208-11. doi: 10.4103/1673-5374.189164. PMID: 27651756; PMCID: PMC5020807.
132. Acevedo J, Santana-Almansa A, Matos-Vergara N, Marrero-Cordero LR, Cabezas-Bou E, Díaz-Ríos M. 2016. Caffeine stimulates locomotor activity in the mammalian spinal cord via adenosine A1 receptor-dopamine D1 receptor interaction and PKA-dependent mechanisms. Neuropharmacology. 101:490-505. doi: 10.1016/j.neuropharm.2015.10.020. Epub 2015 Oct 19. PMID: 26493631; PMCID: PMC4855515.
133. Nogueras-Ortiz C, Yudowski GA. 2016. The Multiple Waves of Cannabinoid 1 Receptor Signaling. Mol Pharmacol. 90(5):620-626. doi: 10.1124/mol.116.104539. Epub 2016 Jun 23. PMID: 27338082.
134. Martin I, Cabán-Hernández K, Figueroa-Santiago O, Espino AM. 2015. Fasciola hepatica fatty acid binding protein inhibits TLR4 activation and suppresses the inflammatory cytokines induced by lipopolysaccharide in vitro and in vivo. J Immunol. 15;194(8):3924-36. doi: 10.4049/jimmunol.1401182. Epub 2015 Mar 16. PMID: 25780044; PMCID: PMC4390499.
135. Palacio S, Velázquez-Marrero C, Marrero HG, Seale GE, Yudowski GA, Treistman SN. 2015. Time-Dependent Effects of Ethanol on BK Channel Expression and Trafficking in Hippocampal Neurons. Alcohol Clin Exp Res. 39(9):1619-31. doi: 10.1111/acer.12808. Epub 2015 Aug 6. PMID: 26247146; PMCID:

PMC4873156.
136. Habib MR, Mohamed AH, Osman GY, Sharaf El-Din AT, Mossalem HS, Delgado N, Torres G, Rolón-Martínez S, Miller MW, Croll RP. 2015. Histamine Immunoreactive Elements in the Central and Peripheral Nervous Systems of the Snail, Biomphalaria spp., Intermediate Host for Schistosoma mansoni. PLoS One. 18;10(6):e0129800. doi: 10.1371/journal.pone.0129800. PMID: 26086611; PMCID: PMC4472778.
137. Rodriguez-Torres MR, Velez C, Zayas B, Rivera O, Arslan Z, Gonzalez-Vega MN, Diaz-Diestra D, Beltran-Huarac J, Morell G, Primera-Pedrozo OM. 2015. Cytocompatibility of direct water synthesized cadmium selenide quantum dots in colo-205 cells. J Nanopart Res. 17(6):266. doi: 10.1007/s11051-015-3064-8. Epub 2015 Jun 13. PMID: 26949369; PMCID: PMC4777355.
138. Salgado IK, Torrado AI, Santiago JM, Miranda JD. 2015. Tamoxifen and Src kinase inhibitors as neuroprotective/neuroregenerative drugs after spinal cord injury. Neural Regen Res. 10(3):385-90. doi: 10.4103/1673-5374.153685. PMID: 25878585; PMCID: PMC4396099.
139. Delgado-Vélez M, Báez-Pagán CA, Gerena Y, Quesada O, Santiago-Pérez LI, Capó-Vélez CM, Wojna V, Meléndez L, León-Rivera R, Silva W, Lasalde- Dominicci JA. 2015. The α7-nicotinic receptor is upregulated in immune cells from HIV-seropositive women: consequences to the cholinergic anti-inflammatory response. Clin Transl Immunology. 11;4(12):e53. doi: 10.1038/cti.2015.31. PMID: 26719799; PMCID: PMC4685439.
140. Biaggi-Labiosa NM, Avilés-Pagán E, Caballero-Rivera D, Báez-Pagán CA, Lasalde-Dominicci JA. 2015. Engineering α4β2 nAChRs with reduced or increased nicotine sensitivity via selective disruption of consensus sites in the M3-M4 cytoplasmic loop of the α4 subunit. Neuropharmacology. 99:273-84. doi: 10.1016/j.neuropharm.2015.04.022. Epub 2015 May 6. PMID: 25957813; PMCID: PMC4636472.
141. West RJ, Lu Y, Marie B, Gao FB, Sweeney ST. 2015. Rab8, POSH, and TAK1 regulate synaptic growth in a Drosophila model of frontotemporal dementia. J Cell Biol. 30;208(7):931-47. doi: 10.1083/jcb.201404066. Epub 2015 Mar 23. PMID: 25800055; PMCID: PMC4384727.
142. Báez-Pagán CA, Delgado-Vélez M, Lasalde-Dominicci JA. 2015. Activation of the Macrophage α7 Nicotinic Acetylcholine Receptor and Control of Inflammation. J Neuroimmune Pharmacol. 10(3):468-76. doi: 10.1007/s11481- 015-9601-5. Epub 2015 Apr 14. PMID: 25870122; PMCID: PMC4546521.
143. Marrero HG, Treistman SN, Lemos JR. 2015. Ethanol Effect on BK Channels is Modulated by Magnesium. Alcohol Clin Exp Res. 39(9):1671-9. doi: 10.1111/acer.12821. PMID: 26331878; PMCID: PMC4607927.
144. Oyola-Cintrón J, Caballero-Rivera D, Ballester L, Baéz-Pagán CA, Martínez HL, Vélez-Arroyo KP, Quesada O, Lasalde-Dominicci JA. 2015. Lateral diffusion, function, and expression of the slow channel congenital myasthenia syndrome αC418W nicotinic receptor mutation with changes in lipid raft components. J Biol Chem. 30;290(44):26790-800. doi: 10.1074/jbc.M115.678573. Epub 2015 Sep 9. PMID: 26354438; PMCID: PMC4646332.
145. Delgado Y, Morales-Cruz M, Figueroa CM, Hernández-Román J, Hernández G, Griebenow K. 2015. The cytotoxicity of BAMLET complexes is due to oleic acid and independent of the α-lactalbumin component. FEBS Open Bio. 4;5:397-404. doi: 10.1016/j.fob.2015.04.010. PMID: 26101738; PMCID: PMC4430638.
146. Zhu H, Grajales-Reyes GE, Alicea-Vázquez V, Grajales-Reyes JG, Robinson K, Pytel P, Báez-Pagán CA, Lasalde-Dominicci JA, Gomez CM. 2015. Fluoxetine is neuroprotective in slow-channel congenital myasthenic syndrome. Exp Neurol. 270:88-94. doi: 10.1016/j.expneurol.2014.10.008. Epub 2014 Oct 23. PMID: 25448156; PMCID: PMC4430442.
147. Mosquera L, Shepherd L, Torrado AI, Torres-Diaz YM, Miranda JD, Segarra AC. 2015. Comparison of Two Methods of Estradiol Replacement: their Physiological and Behavioral Outcomes. J Vet Sci Technol. 30;6(6):276. doi: 10.4172/2157- 7579.1000276. PMID: 26962471; PMCID: PMC4780423.
148. Barreto-Torres G, Hernandez JS, Jang S, Rodríguez-Muñoz AR, Torres-Ramos CA, Basnakian AG, Javadov S. 2015. The beneficial effects of AMP kinase activation against oxidative stress are associated with prevention of PPARα- cyclophilin D interaction in cardiomyocytes. Am J Physiol Heart Circ Physiol. 1;308(7):H749-58. doi: 10.1152/ajpheart.00414.2014. Epub 2015 Jan 23. PMID: 25617357; PMCID: PMC4385997.
149. Quiñones-Laracuente K, Hernández-Rodríguez MY, Bravo-Rivera C, Melendez RI, Quirk GJ. The effect of repeated exposure to ethanol on pre- existing fear memories in rats. Psychopharmacology (Berl). 2015 Oct;232(19):3615-22. doi: 10.1007/s00213-015-4016-9. Epub 2015 Jul 21. PMID: 26194914; PMCID: PMC45610713
150. Root DH, Melendez RI, Zaborszky L, Napier TC. The ventral pallidum: Subregion-specific functional anatomy and roles in motivated behaviors. Prog Neurobiol. 2015 Jul;130:29-70. doi:

10.1016/j.pneurobio.2015.03.005. Epub 2015 Apr 6. PMID: 25857550; PMCID: PMC4687907.
151. Figueroa CM, Morales-Cruz M, Suárez BN, Fernández JC, Molina AM, Quiñones CM, Griebenow K. Induction of Cancer Cell Death by Hyaluronic Acid-Mediated Uptake of Cytochrome C. J Nanomed Nanotechnol. 2015 Oct;6(5):316. doi: 10.4172/2157-7439.1000316. Epub 2015 Oct 1. PMID: 27182458; PMCID: PMC4864004. "The authors acknowledge the great contribution of Mr. Bismark Madera, M.T., to this publication by collecting confocal microscopy images presented here"
152. Pézier A, Jezzini SH, Marie B, Blagburn JM. 2014. Engrailed alters the specificity of synaptic connections of Drosophila auditory neurons with the giant fiber. J Neurosci. 27;34(35):11691-704. doi: 10.1523/JNEUROSCI.1939-14.2014. PMID: 25164665; PMCID: PMC4145173.
153. Mosquera L, Colón JM, Santiago JM, Torrado AI, Meléndez M, Segarra AC, Rodríguez-Orengo JF, Miranda JD. 2014. Tamoxifen and estradiol improved locomotor function and increased spared tissue in rats after spinal cord injury: their antioxidant effect and role of estrogen receptor alpha. Brain Res. 2;1561:11- 22. doi: 10.1016/j.brainres.2014.03.002. Epub 2014 Mar 15. PMID: 24637260; PMCID: PMC4046634.
154. Velázquez-Marrero C, Seale GE, Treistman SN, Martin GE. 2014. Large conductance voltage- and Ca2+-gated potassium (BK) channel β4 subunit influences sensitivity and tolerance to alcohol by altering its response to kinases. J Biol Chem. 17;289(42):29261-72. doi: 10.1074/jbc.M114.604306. Epub 2014 Sep 4. PMID: 25190810; PMCID: PMC4200277.
155. Méndez J, Morales Cruz M, Delgado Y, Figueroa CM, Orellano EA, Morales M, Monteagudo A, Griebenow K. 2014. Delivery of chemically glycosylated cytochrome c immobilized in mesoporous silica nanoparticles induces apoptosis in HeLa cancer cells. Mol Pharm. 6;11(1):102-11. doi: 10.1021/mp400400j. Epub 2013 Dec 10. PMID: 24294910; PMCID: PMC3905321.
156. Hernández JS, Barreto-Torres G, Kuznetsov AV, Khuchua Z, Javadov S. 2014. Crosstalk between AMPK activation and angiotensin II-induced hypertrophy in cardiomyocytes: the role of mitochondria. J Cell Mol Med. 18(4):709-20. doi: 10.1111/jcmm.12220. Epub 2014 Jan 20. PMID: 24444314; PMCID: PMC3981893.
157. Yuan C, Velázquez-Marrero C, Bernardo A, Treistman SN. 2014. Lipids modulate the increase of BK channel calcium sensitivity by the β1 subunit. PLoS One. 25;9(9):e107917. doi: 10.1371/journal.pone.0107917. PMID: 25254644; PMCID: PMC4177886.
158. Velázquez-Marrero C, Ortiz-Miranda S, Marrero HG, Custer EE, Treistman SN, Lemos JR. 2014. μ-Opioid inhibition of Ca2+ currents and secretion in isolated terminals of the neurohypophysis occurs via ryanodine- sensitive Ca2+ stores. J Neurosci. 5;34(10):3733-42. doi: 10.1523/JNEUROSCI.2505-13.2014. PMID: 24599471; PMCID: PMC3942588.
159. Vega-Meléndez GS, Blagburn JM, Blanco RE. 2014. Ciliary neurotrophic factor and fibroblast growth factor increase the speed and number of regenerating axons after optic nerve injury in adult Rana pipiens. J Neurosci Res. 92(1):13-23. doi: 10.1002/jnr.23303. Epub 2013 Oct 26. PMID: 24166589; PMCID: PMC4134876.
160. Rivera-Oliver M, Díaz-Ríos M. 2014. Using caffeine and other adenosine receptor antagonists and agonists as therapeutic tools against neurodegenerative diseases: a review. Life Sci. 17;101(1-2):1-9. doi: 10.1016/j.lfs.2014.01.083. Epub 2014 Feb 13. PMID: 24530739; PMCID: PMC4115368.
161. Delgado Y, Morales-Cruz M, Hernández-Román J, Martínez Y, Griebenow K. 2014. Chemical glycosylation of cytochrome c improves physical and chemical protein stability. BMC Biochem. 6;15:16. doi: 10.1186/1471-2091-15-16. PMID: 25095792; PMCID: PMC4137108.
162. Rosas OR, Torrado AI, Santiago JM, Rodriguez AE, Salgado IK, Miranda JD. 2014. Long-term treatment with PP2 after spinal cord injury resulted in functional locomotor recovery and increased spared tissue. Neural Regen Res. 15;9(24):2164-73. doi: 10.4103/1673-5374.147949. PMID: 25657738; PMCID: PMC4316450.
163. Morales-Cruz M, Figueroa CM, González-Robles T, Delgado Y, Molina A, Méndez J, Morales M, Griebenow K. 2014. Activation of caspase-dependent apoptosis by intracellular delivery of Cytochrome c-based nanoparticles. J Nanobiotechnology. 2;12:33. doi: 10.1186/s12951-014-0033-9. PMID: 25179308; PMCID: PMC4237869.
164. Cabán-Hernández K, Espino AM. 2013. Differential expression and localization of saposin-like protein 2 of Fasciola hepatica. Acta Trop. 128(3):591- 7. doi: 10.1016/j.actatropica.2013.08.012. Epub 2013 Aug 26. PMID: 23988299; PMCID: PMC3837425.
165. Acevedo JM, Díaz-Ríos M. 2013. Removing sensory input disrupts spinal locomotor activity in the early postnatal period. J Comp Physiol A Neuroethol Sens Neural Behav Physiol. 199(12):1105-16. doi: 10.1007/s00359-013-0853-3. Epub 2013 Sep 17. PMID: 24043359; PMCID: PMC3898701.
166. Pézier A, Blagburn JM. 2013. Auditory responses of engrailed and invected-expressing Johnston's Organ

neurons in Drosophila melanogaster. PLoS One 5;8(8):e71419. doi: 10.1371/journal.pone.0071419. PMID: 23940751; PMCID: PMC3734059.
167. Habiba K, Makarov VI, Avalos J, Guinel MJ, Weiner BR, Morell G. 2013. voltageLuminescent graphene quantum dots fabricated by pulsed laser synthesis. Carbon N Y. 64:341-350. doi: 10.1016/j.carbon.2013.07.084. Epub 2013 Jul 31. PMID: 27570249; PMCID: PMC4999264.