

Progress Report Publication List

1. 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 (Sep 15, 2022) A butterfly pan-genome reveals that a large amount of structural variation underlies the evolution of chromatin accessibility. *Genome Res.* doi: 10.1101/gr.276839.122. Online ahead of print.
2. Yancy Ferrer-Acosta, Sergio Rodriguez-Massó, Dinely Pérez, Vesna A Eterovic, P A Ferchmin, Antonio Henrique Martins (Aug 2022) Memantine has a nicotinic neuroprotective pathway in acute hippocampal slices after an NMDA insult. *Toxicol In Vitro* 105453. doi: 10.1016/j.tiv.2022.105453.
3. 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.
4. 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.
5. 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.
6. 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
7. 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.
8. 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
9. 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.
10. 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
11. 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
12. 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
13. 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.
14. 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.
15. 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
16. 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.

17. 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.
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19. 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.
20. 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.
21. 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.
22. 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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24. Nieves-Ríos C, Alvarez-Falcón S, Malavez S, Rodríguez-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.
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